



सत्यमेव जयते

GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

**DELHI ANALYSIS OF RATES
(E & M)**

2016



Directorate General CPWD, Nirman Bhawan, New Delhi

© All rights reserved. No part of this publication, either in English or in Hindi, may be reproduced in any form or by any means, electronic or mechanical including photocopy, recording or any information storage and retrieval system, without permission, in writing, from the Director General, CPWD, New Delhi

Disclaimer

The Delhi Analysis of Rates (E&M) is indicative, as coefficients for labour are likely to vary due to technological innovations, skill of workmen and other local factors affecting the efficiency and output of labour. Further its use by Govt. departments, PSUs, private bodies & individuals shall be at their own risk and discretion. CPWD shall not be responsible for any ambiguity, discrepancy, dispute or financial loss arising directly or indirectly by using or following items of Delhi Analysis of Rates (E&M) by such Govt. Departments/PSUs/Pvt. bodies/individuals.

A GOVERNMENT OF INDIA PUBLICATION

Published by

Director General

Central Public Works Department

Nirman Bhawan

New Delhi-110011

Printed and Marketed by

M/s Kshitiz Enterprises

D-57 South Extension Part-1

New Delhi-110049

Phone : 011-41648857,

Mobile : 9811032311, 9311332311

Email: ajaymittal1957@gmail.com

kshitizenterprisesdel@gmail.com

MRP : Rs. 700/-

Packaging, forwarding and Postage/Freight Charges extra for Outside Delhi
(20% discount on production of photo Identity card by an officer of the rank of Junior Engineer and above or on receipt of requisition from an officer not below the rank of Executive Engineer to all Govt. Departments and Govt. Undertakings)



DIWAKAR GARG
Director General



सत्यमेव जयते
भारत सरकार
Government of India



केन्द्रीय लोक निर्माण विभाग
निर्माण भवन, नई दिल्ली - 110011
Central Public Works Department
Nirman Bhawan, New Delhi-110011
Tel. : 23062556 / 1317, Fax : 23061884
E-mail : cpwd_dgw@nic.in

FOREWORD

This Delhi Analysis of Rates (E&M) 2016 is a comprehensive and useful document. The input of materials, labour and machinery is based on realistic assessments. DAR (E&M) 2016 contains most of the items of Analysis of Rates (E&M) 2014. The rates of all the items have been revised based on rates of labour and material collected during May-June 2016 in Delhi. The analysis of many new items have been added in this edition.

In order to arrive rates of work for a specific location and at a particular time, it is desirable to analyse the rates based on prevailing rates of material and labour. The Delhi Analysis of Rates (E&M) 2016 will help all Engineers of CPWD, other Govt. Departments, Public Undertakings and Consultants who follow CPWD Schedule of Rates in their works in analysing rates of works at different locations.

I acknowledge the hard work put in by Sh. D. K. Tulani, SE (E) TAS, Sh. Arun Goyal, AEE (E) TAS, Sh. M.C. Sharma, AE (E) TAS and Sh. H. P. S. Tyagi, AE (E) under the guidance of Sh. Mukesh Vij, SDG (ER), Sh. P. K. Garg, ADG (ER-II) Sh. Balraj Chadha, ADG (TD) and Sh. CK Varma, CE (E) CSQ without which the revision would not have been possible. I also acknowledge the valuable suggestions of other members of specification committee as well as all those involved in the process of revision and finalization of Delhi Analysis of Rates (E&M) 2016.

I am sure that this Analysis of Rates will be useful to all concerned Engineers of CPWD but also to many other engineering organizations of Central/State Governments as well as practicing Architects and E&M Consultants.

Place : New Delhi
Date : July 2016

(DIWAKAR GARG)
DIRECTOR GENERAL, CPWD



सत्यमेव जयते

बलराज चढ्ढा
BALRAJ CHADHA

भारत सरकार
Government of India
अपर महानिदेशक (प्रौ.वि.)
Additional Director General (TD)
केन्द्रीय लोक निर्माण विभाग
Central Public Works Department

प्रथम तल, कमरा संख्या 118 ए-विंग निर्माण भवन, नई दिल्ली - 110 011
First Floor, Room No. 118, A Wing, Nirman Bhawan
New Delhi-110 011, Phone : 23063389, fax : 23061608
E-Mail : adgtd@nic.in




PREFACE

The Delhi Schedule of Rates (E&M) 2016 which is the revised edition of Delhi Schedule of Rates (E&M) 2014 combines Schedule of Rates for Electrical Works (Part I) Internal, (Part-II) External and low side HVAC Works.

The Delhi Analysis of Rates (E&M) 2016 is a detailed document based on which Delhi Schedule of Rates (E&M) 2016 is prepared. The rates of all items have been analyzed based on minimum wage rates of labour issued by Govt. of Delhi w.e.f . 01.04.2016 and prevailing market rates of materials in Delhi as on 1.04.2016. Coefficients of labour and materials have been adopted based on previous Analysis of Rates (E&M) 2014. However, a few changes have been made considering technological developments .

All efforts have been made to ensure the corrections of the Delhi Analysis of Rates (E&M) 2016. Errors, omissions and/or suggestions for improvement, if any, may kindly be brought to the notice of the Superintending Engineer (E) TAS in the office of the Chief Engineer, CSQ (E), Nirman Bhawan, New Delhi- 110011.

Place: New Delhi
Dated: July, 2016


(BALRAJ CHADHA)
ADDL. DIRECTOR GENERAL (TD)

CONTENTS

CHAPTER	NAME OF CHAPTER/SUBHEAD	PAGE NO.
	General Note	VIII
1.	WIRING	1
2.	MCCB, MCB & DB'S	96
3.	RISING MAINS & BUS TRUNKING	127
4.	CABLE TRAYS	166
5.	EARTHING	260
6.	LIGHTING CONDUCTOR	272
7.	MV CABLE LAYING	277
8.	HV CABLE LAYING	292
9.	MV CABLE JOINTING & END TERMINATION	299
10.	HV CABLE JOINTING & END TERMINATION	354
11.	POLE ERECTION	369
12.	MV OVER HEAD LINE WORK	376
13.	HV OVER HEAD LINE WORK	396
14.	MISC. CIVIL ITEMS	411
15.	LIGHTING CONTROLS	426
16.	HVAC (ONLY PLUMBING, DUCTING & AHU)	430
Appendix-I	BASIC RATE OF LABOUR & HIRE CHARGES	543
Appendix-II	BASIC RATE OF MATERIAL	544

GENERAL NOTE

The Analysis of Rate (E&M)-2016 has been prepared on the following:

1. The items of works are to be executed as per CPWD General Specifications for Electrical Works Part-I Internal, Part-II External, Part-IV Sub-Station and CPWD General Specifications for HVAC Works 2004, with upto date amendments/ correction slips.
2. The Basic Rates of labour and materials have been provided in Appendix-I & II.
3. The rates in this DAR are for working height upto 4.5 m from floor level wherever height is not specified.
4. For Electrical Panels, CPWD General Specifications for Electrical Works Part-IV shall be applicable.
5. The rates of materials are for reputed brands, factory fabricated and tested where ever available from manufactures as submitted by field units.
6. The rates of AHUs have been incorporated only for four and six rows deep cooling coils. For any change in the parameters, the rates have to be analyzed by the NIT approving authority.

CHAPTER 1 – WIRING

1.1 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.

1.1.1 Group A

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	7.88	11.10	87.47
1201	20 mm dia. ISI marked, steel conduit = 2.5 + 0.13 (wastage @ 5%) = 2.63m	meter	2.63	60.01	157.83
1206	20 mm inspection/ solid bends	each	1.00	7.61	7.61
1211	20 mm sockets	each	0.00	6.93	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.60	6.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.40	3.20
2920	Washers	each	4.00	0.17	0.68
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	20.00	20.00
1322	3 mm thick phenolic laminated sheet	sq.cm	72.00	0.10	7.20
1216	20 mm junction box, one way	each	1.00	17.86	17.86
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	13.30	13.30
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials	A1			327.17
	Cartage @ 1 % of A1				3.27
LABOUR					
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.10	407.00	40.70
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.30	368.00	110.40
	TOTAL				572.98
	OVERHEADS & PROFIT @ 15 %				85.95
	TOTAL				658.93
	Rate per point				658.93
	Say				659.00

1.1.2 Group B**COST FOR 1 POINT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x4+1x2 = 10 + 0.5 (wastage @ 5%) = 10.5m	meter	10.5	11.10	116.55
1201	20 mm dia. ISI marked, steel conduit = 3.5 + 0.18 (wastage @ 5%) = 3.68m	meter	3.68	60.01	220.84
1206	20 mm inspection/ solid bends	each	1.00	7.61	7.61
1211	20 mm sockets	each	2.00	6.93	13.86
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.40	3.20
2920	Washers	each	4.00	0.17	0.68
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	20.00	20.00
1322	3 mm thick phenolic laminated sheet	sq.cm	72.00	0.10	7.20
1216	20 mm junction box, one way	each	1.00	17.86	17.86
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	13.30	13.30
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					442.52
Cartage @ 1 % of A1					4.43
LABOUR					
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.10	407.00	40.70
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.30	368.00	110.40
TOTAL					689.49
OVERHEADS & PROFIT @ 15 %					103.42
TOTAL					792.91
Rate per point					792.91
Say					793.00

1.1.3 Group C**COST FOR 1 POINT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	11.10	145.97

1201	20 mm dia. ISI marked, steel conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	60.01	283.85
1206	20 mm inspection/ solid bends	each	1.00	7.61	7.61
1211	20 mm sockets	each	2.00	6.93	13.86
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.40	3.20
2920	Washers	each	4.00	0.17	0.68
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	20.00	20.00
1322	3 mm thick phenolic laminated sheet	sq.cm	72.00	0.10	7.20
1216	20 mm junction box, one way	each	1.00	17.86	17.86
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	13.30	13.30
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				534.95
	Cartage @ 1 % of A1				5.35
	LABOUR				
1001	Wireman	day	0.30	447.00	134.10
1010	Mason, Grade 2	day	0.10	407.00	40.70
1006	Painter	day	0.005	407.00	2.04
1007	Khallas	day	0.40	368.00	147.20
	TOTAL				864.34
	OVERHEADS & PROFIT @ 15 %				129.65
	TOTAL				993.99
	Rate per point				993.99
	Say				994.00

1.2 Wiring for twin control light point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	11.10	145.97
1201	20 mm dia. ISI marked, steel conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	60.01	283.85
1206	20 mm inspection/ solid bends	each	1.00	7.61	7.61
1211	20 mm sockets	each	2.00	6.93	13.86
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.40	3.20

CHAPTER-1 : WIRING

2920	Washers	each	4.00	0.17	0.68
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	20.00	20.00
1322	3 mm thick phenolic laminated sheet	sq.cm	72.00	0.10	7.20
1216	20 mm junction box, one way	each	1.00	17.86	17.86
1432	S.P. 5/6 A, two way switch, piano type ISI marked	each	1.00	17.37	17.37
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1	4.50	4.50
Total cost of materials					539.02
Cartage @ 1 % of A1					5.39
LABOUR					
1001	Wireman	day	0.30	447.00	134.10
1010	Mason, Grade 2	day	0.10	407.00	40.70
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.40	368.00	147.20
TOTAL					868.45
OVERHEADS & PROFIT @ 15 %					130.27
TOTAL					998.73
Rate per point					998.73
Say					999.00

1.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.

1.3.1 Group A

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	7.88	11.10	87.47
1201	20 mm dia. ISI marked, steel conduit = 2.5 + 0.13 (wastage @ 5%) = 2.63m	meter	2.63	60.01	157.83
1206	20 mm inspection/ solid bends	each	1.00	7.61	7.61
1211	20 mm sockets	each	0.00	6.93	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.60	6.40
1216	20 mm junction box, one way	each	1.00	17.86	17.86
1300	Modular GI box for 2 module	each	0.50	28.00	14.00
1421	Modular base & cover plate for 2 module	each	0.50	39.60	19.80
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	4.00	0.28	1.12

2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				364.59
	Cartage @ 1 % of A1				3.65
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.10	407.00	40.70
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.30	368.00	110.40
	TOTAL				610.78
	OVERHEADS & PROFIT @ 15 %				91.62
	TOTAL				702.40
	Rate per point				702.40
	Say				702.00

1.3.2 Group B**COST FOR 1 POINT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x4+1x2 = 10+0.5 (wastage @ 5%) = 10.5m	meter	10.5	11.10	116.55
1201	20 mm dia. ISI marked, steel conduit = 3.5 + 0.18 (wastage @ 5%) = 3.68m	meter	3.68	60.01	220.84
1206	20 mm inspection/ solid bends	each	1.00	7.61	7.61
1211	20 mm sockets	each	2.00	6.93	13.86
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
1216	20 mm junction box, one way	each	1.00	17.86	17.86
1300	Modular GI box for 2 module	each	0.50	28.00	14.00
1421	Modular base & cover plate for 2 module	each	0.50	39.60	19.80
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				479.94
	Cartage @ 1 % of A1				4.80
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.10	407.00	40.70
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.30	368.00	110.40
	TOTAL				727.28
	OVERHEADS & PROFIT @ 15 %				109.09
	TOTAL				836.37
	Rate per point				836.37
	Say				836.00

CHAPTER-1 : WIRING

1.3.3 Group C
COST FOR 1POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	meter	13.15	11.10	145.97
1201	20 mm dia. ISI marked, steel conduit = $4.5 + 0.23$ (wastage @ 5%) = 4.73m	meter	4.73	60.01	283.85
1206	20 mm inspection/ solid bends	each	1.00	7.61	7.61
1211	20 mm sockets	each	2.00	6.93	13.86
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
1216	20 mm junction box, one way	each	1.00	17.86	17.86
1300	Modular GI box for 2 module	each	0.50	28.00	14.00
1421	Modular base & cover plate for 2 module	each	0.50	39.60	19.80
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					572.37
Cartage @ 1 % of A1					5.72
LABOUR					
1001	Wireman	day	0.30	447.00	134.10
1010	Mason, Grade 2	day	0.10	407.00	40.70
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.40	368.00	147.20
TOTAL					902.13
OVERHEADS & PROFIT @ 15 %					135.32
TOTAL					1037.45
Rate per point					1037.45
Say					1037.00

1.4 Wiring for twin control light point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.

COST FOR 1POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	meter	13.15	11.10	145.97

1201	20 mm dia. ISI marked, steel conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	60.01	283.85
1206	20 mm inspection/ solid bends	each	1.00	7.61	7.61
1211	20 mm sockets	each	2.00	6.93	13.86
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
1216	20 mm junction box, one way	each	1.00	17.86	17.86
1217	20 mm junction box, two way	each	2.00	17.86	35.72
1300	Modular GI box for 2 module	each	0.50	28.00	14.00
1421	Modular base & cover plate for 2 module	each	0.50	39.60	19.80
1403	S.P. 5/6 A, two way modular switch, ISI marked	each	1.00	60.80	60.80
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					620.89
Cartage @ 1 % of A1					6.21
LABOUR					
1001	Wireman	day	0.30	447.00	134.10
1010	Mason, Grade 2	day	0.10	407.00	40.70
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.40	368.00	147.20
TOTAL					951.14
OVERHEADS & PROFIT @ 15 %					142.67
TOTAL					1093.81
Rate per point					1093.81
Say					1094.00

1.5 Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	26.18	4164.71
1201	20 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	60.01	3150.53
1206	20 mm inspection/ solid bends	each	4.00	7.61	30.44
1211	20 mm sockets	each	10.00	6.93	69.30
1217	20 mm junction box, two way	each	6.00	17.86	107.16
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50

CHAPTER-1 : WIRING

	Total cost of materials				7686.44
	Cartage @ 1 % of A1				76.86
	LABOUR				
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	273.00	1.37
1007	Khallasi	day	3.25	368.00	1196.00
	TOTAL				10383.42
	OVERHEADS & PROFIT @ 15 %				1557.51
	TOTAL				11940.93
	Rate per meter				238.82
	Say				239.00

1.6 Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	26.18	8329.17
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	75.60	3969.00
1207	25 mm inspection/ solid bends	each	4.00	13.39	53.56
1212	25 mm sockets	each	10.00	7.56	75.60
1217	20 mm junction box, two way	each	6.00	17.86	107.16
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				12748.94
	Cartage @ 1 % of A1				127.49
	LABOUR				
1001	Wireman	day	3.00	447.00	1341.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	3.75	368.00	1380.00
	TOTAL				15904.72
	OVERHEADS & PROFIT @ 15 %				2385.71
	TOTAL				18290.43
	Rate per meter				365.81
	Say				366.00

1.7 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required

1.7.1 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	11.10	1765.79
1201	20 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	60.01	3150.53
1206	20 mm inspection/ solid bends	each	4.00	7.61	30.44
1211	20 mm sockets	each	15.00	6.93	103.95
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					5215.01
Cartage @ 1 % of A1					52.15
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	3.25	368.00	1196.00
TOTAL					7887.95
OVERHEADS & PROFIT @ 15 %					1183.19
TOTAL					9071.14
Rate per meter					181.42
Say					181.00

1.7.2 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	17.84	2837.99
1201	20 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	60.01	3150.53
1206	20 mm inspection/ solid bends	each	4.00	7.61	30.44

CHAPTER-1 ; WIRING

1211	20 mm sockets	each	15.00	6.93	103.95
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					6287.21
Cartage @ 1 % of A1					62.87
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	3.25	368.00	1196.00
TOTAL					8970.87
OVERHEADS & PROFIT @ 15 %					1345.63
TOTAL					10316.50
Rate per meter					206.33
Say					206.00

1.7.3 2 X 4 sq. mm + 1 X 4 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $50.5 \times 3 = 151.5 + 7.58$ (Wastage @ 5%) = 159.08m	meter	159.08	26.18	4164.71
1201	20 mm dia. ISI marked, steel conduit = $50.0 + 2.5$ (Wastage @ 5%) = 52.5m	meter	52.50	60.01	3150.53
1206	20 mm inspection/ solid bends	each	4.00	7.61	30.44
1211	20 mm sockets	each	15.00	6.93	103.95
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					7613.93
Cartage @ 1 % of A1					76.14
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	3.25	368.00	1196.00
TOTAL					10310.86
OVERHEADS & PROFIT @ 15 %					1546.63
TOTAL					11857.49
Rate per meter					237.15
Say					237.00

1.7.4 2 X 6 sq. mm + 1 X 6 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	38.87	6183.44
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	75.60	3969.00
1207	25 mm inspection/ solid bends	each	4.00	13.39	53.56
1212	25 mm sockets	each	15.00	7.56	113.40
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					10533.85
Cartage @ 1 % of A1					105.34
LABOUR					
1001	Wireman	day	3.50	447.00	1564.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasasi	day	4.25	368.00	1564.00
TOTAL					14074.98
OVERHEADS & PROFIT @ 15 %					2111.25
TOTAL					16186.23
Rate per meter					323.72
Say					324.00

1.7.5 2 X 10 sq. mm + 1 X 6 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2 =101+5.05(Wastage @ 5%)=106.05 m	meter	106.05	66.43	7044.90
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x1 =50.5+2.53 (Wastage @ 5%)=53.03 m	meter	53.03	38.87	2061.28
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	75.60	3969.00
1207	25 mm inspection/ solid bends	each	4.00	13.39	53.56
1212	25 mm sockets	each	15.00	7.56	113.40
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15

CHAPTER-1 : WIRING

2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				13456.59
	Cartage @ 1 % of A1				134.57
	LABOUR				
1001	Wireman	day	3.50	447.00	1564.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	4.25	368.00	1564.00
	TOTAL				17026.95
	OVERHEADS & PROFIT @ 15 %				2554.04
	TOTAL				19580.99
	Rate per meter				391.62
	Say				392.00

1.7.6 2 X 16 sq. mm + 1 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2 =101+5.05 (Wastage @ 5%)=106.05 m	meter	106.05	102.36	10855.28
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x1 =50.5+2.53 (Wastage @ 5%)=53.03 m	meter	53.03	38.87	2061.28
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	113.40	5953.50
1208	32 mm inspection/ solid bends	each	4.00	25.20	100.80
1213	32 mm sockets	each	15.00	9.77	146.55
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.34	283.90
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				19429.61
	Cartage @ 1 % of A1				194.30
	LABOUR				
1001	Wireman	day	3.50	447.00	1564.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	4.25	368.00	1564.00
	TOTAL				23059.70
	OVERHEADS & PROFIT @ 15 %				3458.95
	TOTAL				26518.65
	Rate per meter				530.37
	Say				530.00

1.7.7 4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15 (Wastage @ 5%) =318.15m	meter	318.15	17.84	5675.80
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	75.60	3969.00
1207	25 mm inspection/ solid bends	each	4.00	13.39	53.56
1212	25 mm sockets	each	15.00	7.56	113.40
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					10026.21
Cartage @ 1 % of A1					100.26
LABOUR					
1001	Wireman	day	3.50	447.00	1564.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	4.25	368.00	1564.00
TOTAL					13562.26
OVERHEADS & PROFIT @ 15 %					2034.34
TOTAL					15596.60
Rate per meter					311.93
Say					312.00

1.7.8 4 X 4 sq. mm + 2 X 4 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	26.18	8329.17
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	75.60	3969.00
1207	25 mm inspection/ solid bends	each	4.00	13.39	53.56
1212	25 mm sockets	each	15.00	7.56	113.40
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.00	4.00
Total cost of materials					12679.08

CHAPTER-1 : WIRING

	Cartage @ 1 % of A1				126.79
	LABOUR				
1001	Wireman	day	3.50	447.00	1564.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	4.25	368.00	1564.00
	TOTAL				16241.66
	OVERHEADS & PROFIT @ 15 %				2436.25
	TOTAL				18677.91
	Rate per meter				373.56
	Say				374.00

1.7.9 4 X 6 sq. mm + 2 X 6 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	38.87	12366.49
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	113.40	5953.50
1208	32 mm inspection/ solid bends	each	4.00	25.20	100.80
1213	32 mm sockets	each	15.00	9.77	146.55
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.34	283.90
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				18879.54
	Cartage @ 1 % of A1				188.80
	LABOUR				
1001	Wireman	day	3.50	447.00	1564.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	4.25	368.00	1564.00
	TOTAL				22504.13
	OVERHEADS & PROFIT @ 15 %				3375.62
	TOTAL				25879.75
	Rate per meter				517.59
	Say				518.00

1.7.10 4 X 10 sq. mm + 2 X 6 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 =202.0+10.1(Wastage @ 5%)=212.10 m	meter	212.10	66.43	14089.80
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2 =101.0+5.05 (Wastage @ 5%)=106.05 m	meter	106.05	38.87	4122.16
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	113.40	5953.50
1208	32 mm inspection/ solid bends	each	4.00	25.20	100.80
1213	32 mm sockets	each	15.00	9.77	146.55
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.34	283.90
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					24725.01
Cartage @ 1 % of A1					247.25
LABOUR					
1001	Wireman	day	3.50	447.00	1564.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	4.25	368.00	1564.00
TOTAL					28408.05
OVERHEADS & PROFIT @ 15 %					4261.21
TOTAL					32669.26
Rate per meter					653.39
Say					653.00

1.7.11 4 X 16 sq. mm + 2 X 6 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 =202.0+10.1(Wastage @ 5%)=212.10 m	meter	212.10	102.36	21710.56
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2 =101.0+5.05 (Wastage @ 5%)=106.05 m	meter	106.05	38.87	4122.16
1204	40 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	184.28	9674.70
1209	40 mm inspection/ solid bends	each	4.00	34.13	136.52

CHAPTER-1 : WIRING

1214	40 mm sockets	each	15.00	13.86	207.90
1221	40 mm iron staples/ saddles/ screws	each	85.00	4.31	366.35
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					36246.49
Cartage @ 1 % of A1					362.46
LABOUR					
1001	Wireman	day	4.00	447.00	1788.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.01	407.00	2.04
1007	Khallasi	day	4.75	368.00	1748.00
TOTAL					40452.24
OVERHEADS & PROFIT @ 15 %					6067.84
TOTAL					46520.08
Rate per meter					930.40
Say					930.00

1.8 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.

1.8.1 Group A

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	7.88	11.10	87.47
1224	20 mm dia. ISI marked, PVC conduit = 2.5 + 0.13 (wastage @ 5%) = 2.63m	meter	2.63	11.81	31.06
1229	20 mm PVC bends	each	1.00	5.65	5.65
1234	20 mm PVC couplers	each	0.00	3.50	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.60	6.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.40	3.20
2920	Washers	each	4.00	0.17	0.68
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	20.00	20.00
1322	3 mm thick phenolic laminated sheet	sq.cm	72.00	0.10	7.20
1239	20 mm PVC junction box, one way	each	1.00	15.45	15.45
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	13.30	13.30
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50

Total cost of materials				196.03
Cartage @ 1 % of A1				1.96
LABOUR				
1001	Wireman	day	0.20 447.00	89.40
1010	Mason, Grade 2	day	0.10 407.00	40.70
1007	Khallasi	day	0.30 368.00	110.40
TOTAL				438.49
OVERHEADS & PROFIT @ 15 %				65.77
TOTAL				504.26
Rate per point				504.26
Say				504.00

1.8.2 Group B**COST FOR 1 POINT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x4+1x2 =10+0.5 (wastage @ 5%) =10.5m	meter	10.50	11.10	116.55
1224	20 mm dia. ISI marked, PVC conduit = 3.5 + 0.18 (wastage @ 5%) = 3.68m	meter	3.68	11.81	43.46
1229	20 mm PVC bends	each	1.00	5.65	5.65
1234	20 mm PVC couplers	each	2.00	3.50	7.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
2851	Al. Alloy/cadmium plated iron screws, 20 mm	each	8.00	0.40	3.20
2920	Washers	each	4.00	0.17	0.68
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	20.00	20.00
1322	3 mm thick phenolic laminated sheet	sq.cm	72.00	0.10	7.20
1239	20 mm PVC junction box, one way	each	1.00	15.45	15.45
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	13.30	13.30
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					253.91
Cartage @ 1 % of A1					2.54
LABOUR					
1001	Wireman	day	0.20 447.00	89.40	
1010	Mason, Grade 2	day	0.10 407.00	40.70	
1007	Khallasi	day	0.30 368.00	110.40	
TOTAL					496.95
OVERHEADS & PROFIT @ 15 %					74.54
TOTAL					571.49
Rate per point					571.49
Say					571.00

1.8.3 Group C**COST FOR 1 POINT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	11.10	145.97
1224	20 mm dia. ISI marked, PVC conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	11.81	55.86
1229	20 mm PVC bends	each	1.00	5.65	5.65
1234	20 mm PVC couplers	each	2.00	3.50	7.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.40	3.20
2920	Washers	each	4.00	0.17	0.68
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	20.00	20.00
1322	3 mm thick phenolic laminated sheet	sq.cm	72.00	0.10	7.20
1239	20 mm PVC junction box, one way	each	1.00	15.45	15.45
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	13.30	13.30
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					295.73
Cartage @ 1 % of A1					2.96
LABOUR					
1001	Wireman	day	0.30	447.00	134.10
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.40	368.00	147.20
TOTAL					620.69
OVERHEADS & PROFIT @ 15 %					93.10
TOTAL					713.79
Rate per point					713.79
Say					714.00

1.9 Wiring for twin control light point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	13.15	11.10	145.97

	= 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%)				
	= 13.15m				
1224	20 mm dia. ISI marked, PVC conduit	meter	4.73	11.81	55.86
	= 4.5 + 0.23 (wastage @ 5%) = 4.73m				
1229	20 mm PVC bends	each	1.00	5.65	5.65
1234	20 mm PVC couplers	each	2.00	3.50	7.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
2851	Al. Alloy/cadmium plated iron screws, 20 mm	each	8.00	0.40	3.20
2920	Washers	each	4.00	0.17	0.68
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	20.00	20.00
1322	3 mm thick phenolic laminated sheet	sq.cm	72.00	0.10	7.20
1239	20 mm PVC junction box, one way	each	1.00	15.45	15.45
1432	S.P. 5/6 A, two way switch, piano type ISI marked	each	1.00	17.37	17.37
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				299.80
	Cartage @ 1 % of A1				3.00
	LABOUR				
1001	Wireman	day	0.30	447.00	134.10
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.40	368.00	147.20
	TOTAL				624.80
	OVERHEADS & PROFIT @ 15 %				93.72
	TOTAL				718.52
	Rate per point				718.52
	Say				719.00

1.10 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.

1.10.1 Group A

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	7.88	11.10	87.47
	= 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%)				
	= 7.88m				
1224	20 mm dia. ISI marked, PVC conduit	meter	2.63	11.81	31.06
	= 2.5 + 0.13 (wastage @ 5%) = 2.63m				
1229	20 mm PVC bends	each	1.00	5.65	5.65

CHAPTER-1 : WIRING

1234	20 mm PVC couplers	each	0.00	3.50	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.60	6.40
1239	20 mm PVC junction box, one way	each	1.00	15.45	15.45
1300	Modular GI box for 2 module	each	0.50	28.00	14.00
1421	Modular base & cover plate for 2 module	each	0.50	39.60	19.80
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				233.45
	Cartage @ 1 % of A1				2.33
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallas	day	0.30	368.00	110.40
	TOTAL				476.28
	OVERHEADS & PROFIT @ 15 %				71.44
	TOTAL				547.72
	Rate per point				547.72
	Say				548.00

1.10.2 Group B

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x4+1x2 = 10 + 0.5 (wastage @ 5%) = 10.5m	meter	10.50	11.10	116.55
1224	20 mm dia. ISI marked, PVC conduit = 3.5 + 0.18 (wastage @ 5%) = 3.68m	meter	3.68	11.81	43.46
1229	20 mm PVC bends	each	1.00	5.65	5.65
1234	20 mm PVC couplers	each	2.00	3.50	7.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
1239	20 mm PVC junction box, one way	each	1.00	15.45	15.45
1300	Modular GI box for 2 module	each	0.50	28.00	14.00
1421	Modular base & cover plate for 2 module	each	0.50	39.60	19.80
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				291.33
	Cartage @ 1 % of A1				2.91
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40

1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.30	368.00	110.40
	TOTAL				534.74
	OVERHEADS & PROFIT @ 15 %				80.21
	TOTAL				614.95
	Rate per point				614.95
	Say				615.00

1.10.3 Group C**COST FOR 1 POINT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	11.10	145.97
1224	20 mm dia. ISI marked, PVC conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	11.81	55.86
1229	20 mm PVC bends	each	1.00	5.65	5.65
1234	20 mm PVC couplers	each	2.00	3.50	7.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
1239	20 mm PVC junction box, one way	each	1.00	15.45	15.45
1300	Modular GI box for 2 module	each	0.50	28.00	14.00
1421	Modular base & cover plate for 2 module	each	0.50	39.60	19.80
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				333.15
	Cartage @ 1 % of A1				3.33
LABOUR					
1001	Wireman	day	0.30	447.00	134.10
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.40	368.00	147.20
	TOTAL				658.48
	OVERHEADS & PROFIT @ 15 %				98.77
	TOTAL				757.25
	Rate per point				757.25
	Say				757.00

- 1.11 Wiring for twin control light point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.**

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	11.10	145.97
1224	20 mm dia. ISI marked, PVC conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	11.81	55.86
1229	20 mm PVC bends	each	1.00	5.65	5.65
1234	20 mm PVC couplers	each	2.00	3.50	7.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.60	14.40
1239	20 mm PVC junction box, one way	each	1.00	15.45	15.45
1240	20 mm PVC junction box, two way	each	2.00	15.99	31.98
1300	Modular GI box for 2 module	each	0.50	28.00	14.00
1421	Modular base & cover plate for 2 module	each	0.50	39.60	19.80
1403	S.P. 5/6 A, two way modular switch, ISI marked	each	1.00	60.80	60.80
2857	PVC fastener 40mm long	each	9.00	0.28	2.52
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					377.93
Cartage @ 1 % of A1					3.78
LABOUR					
1001	Wireman	day	0.30	447.00	134.10
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.40	368.00	147.20
TOTAL					703.71
OVERHEADS & PROFIT @ 15 %					105.56
TOTAL					809.27
Rate per point					809.27
Say					809.00

- 1.12 Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.**

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	26.18	4164.71
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	11.81	620.03
1229	20 mm PVC bends	each	4.00	5.65	22.60
1234	20 mm PVC couplers	each	15.00	3.50	52.50
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					5024.14
Cartage @ 1 % of A1					50.24
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasari	day	2.75	368.00	1012.00
TOTAL					7285.63
OVERHEADS & PROFIT @ 15 %					1092.84
TOTAL					8378.47
Rate per meter					167.57
Say					168.00

1.13 Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	26.18	8329.17
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	20.32	1066.80
1230	25 mm PVC bends	each	4.00	7.70	30.80
1235	25 mm PVC couplers	each	15.00	5.24	78.60
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50

CHAPTER-1 : WIRING

	Total cost of materials				9719.82
	Cartage @ 1 % of A1				97.20
	LABOUR				
1001	Wireman	day	2.25	447.00	1005.75
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	3.00	368.00	1104.00
	TOTAL				12232.02
	OVERHEADS & PROFIT @ 15 %				1834.80
	TOTAL				14066.82
	Rate per meter				281.34
	Say				281.00

1.14 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.

1.14.1 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58 (Wastage @ 5%) =159.08m	meter	159.08	11.10	1765.79
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	11.81	620.03
1229	20 mm PVC bends	each	4.00	5.65	22.60
1234	20 mm PVC couplers	each	15.00	3.50	52.50
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				2625.22
	Cartage @ 1 % of A1				26.25
	LABOUR				
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.75	368.00	1012.00
	TOTAL				4862.72
	OVERHEADS & PROFIT @ 15 %				729.41
	TOTAL				5592.13
	Rate per meter				111.84
	Say				112.00

**1.14.2 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire
COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58 (Wastage @ 5%) =159.08m	meter	159.08	17.84	2837.99
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	11.81	620.03
1229	20 mm PVC bends	each	4.00	5.65	22.60
1234	20 mm PVC couplers	each	15.00	3.50	52.50
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					3697.42
Cartage @ 1 % of A1					36.97
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.75	368.00	1012.00
TOTAL					5945.64
OVERHEADS & PROFIT @ 15 %					891.85
TOTAL					6837.49
Rate per meter					136.75
Say					137.00

**1.14.3 2 X 4 sq. mm + 1 X 4 sq. mm earth wire
COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	26.18	4164.71
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	11.81	620.03
1229	20 mm PVC bends	each	4.00	5.65	22.60
1234	20 mm PVC couplers	each	15.00	3.50	52.50
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					5024.14

CHAPTER-1 : WIRING

	Cartage @ 1 % of A1				50.24
	LABOUR				
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.75	368.00	1012.00
	TOTAL				7285.63
	OVERHEADS & PROFIT @ 15 %				1092.84
	TOTAL				8378.47
	Rate per meter				167.57
	Say				168.00

**1.14.4 2 X 6 sq. mm + 1 X 6 sq. mm earth wire
COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	38.87	6183.44
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	20.32	1066.80
1230	25 mm PVC bends	each	4.00	7.70	30.80
1235	25 mm PVC couplers	each	15.00	5.24	78.60
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				7574.09
	Cartage @ 1 % of A1				75.74
	LABOUR				
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.75	368.00	1012.00
	TOTAL				9861.08
	OVERHEADS & PROFIT @ 15 %				1479.16
	TOTAL				11340.24
	Rate per meter				226.80
	Say				227.00

**1.14.5 2 X 10 sq. mm + 1 X 6 sq. mm earth wire
COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2				

	=101+5.05(Wastage @ 5%)=106.05 m	meter	106.05	66.43	7044.90
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable ' =50.5x1 =50.5+2.53 (Wastage @ 5%)=53.03 m	meter	53.03	38.87	2061.28
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	20.32	1066.80
1230	25 mm PVC bends	each	4.00	7.70	30.80
1235	25 mm PVC couplers	each	15.00	5.24	78.60
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				10496.83
	Cartage @ 1 % of A1				104.97
	LABOUR				
1001	Wireman	day	2.25	447.00	1005.75
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	3.00	368.00	1104.00
	TOTAL				13016.80
	OVERHEADS & PROFIT @ 15 %				1952.52
	TOTAL				14969.32
	Rate per meter				299.39
	Say				299.00

1.14.6 2 X 16 sq. mm + 1 X 6 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable ' =50.5x2 =101+5.05(Wastage @ 5%)=106.05 m	meter	106.05	102.36	10855.28
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable ' =50.5x1 =50.5+2.53 (Wastage @ 5%)=53.03 m	meter	53.03	38.87	2061.28
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	33.59	1763.48
1231	32 mm PVC bends	each	4.00	13.16	52.64
1236	32 mm PVC couplers	each	15.00	8.55	128.25
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.34	283.90
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				15173.13
	Cartage @ 1 % of A1				151.73
	LABOUR				
1001	Wireman	day	2.25	447.00	1005.75

CHAPTER-1 : WIRING

1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	3.00	368.00	1104.00
	TOTAL				17739.86
	OVERHEADS & PROFIT @ 15 %				2660.98
	TOTAL				20400.84
	Rate per meter				408.02
	Say				408.00

1.14.7 4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	17.84	5675.80
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	20.32	1066.80
1230	25 mm PVC bends	each	4.00	7.70	30.80
1235	25 mm PVC couplers	each	15.00	5.24	78.60
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				7066.45
	Cartage @ 1 % of A1				70.66
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.75	368.00	1012.00
	TOTAL				9348.36
	OVERHEADS & PROFIT @ 15 %				1402.25
	TOTAL				10750.61
	Rate per meter				215.01
	Say				215.00

1.14.8 4 X 4 sq. mm + 2 X 4 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	26.18	8329.17

1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	20.32	1066.80
1230	25 mm PVC bends	each	4.00	7.70	30.80
1235	25 mm PVC couplers	each	15.00	5.24	78.60
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					9719.82
Cartage @ 1 % of A1					97.20
LABOUR					
1001	Wireman	day	2.25	447.00	1005.75
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	3.00	368.00	1104.00
TOTAL					12232.02
OVERHEADS & PROFIT @ 15 %					1834.80
TOTAL					14066.82
Rate per meter					281.34
Say					281.00

1.14.9 4 X 6 sq. mm + 2 X 6 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%)=318.15m	meter	318.15	38.87	12366.49
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	33.59	1763.48
1231	32 mm PVC bends	each	4.00	13.16	52.64
1236	32 mm PVC couplers	each	15.00	8.55	128.25
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.34	283.90
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					14623.06
Cartage @ 1 % of A1					146.23
LABOUR					
1001	Wireman	day	2.25	447.00	1005.75
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	3.00	368.00	1104.00
TOTAL					17184.29
OVERHEADS & PROFIT @ 15 %					2577.64
TOTAL					19761.93
Rate per meter					395.24
Say					395.00

CHAPTER-1 : WIRING

1.14.10 4 X 10 sq. mm + 2 X 6 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= $50.5 \times 4 = 202.0 + 10.1$ (Wastage @ 5%)= 212.10 m	meter	212.10	66.43	14089.80
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= $50.5 \times 2 = 101.0 + 5.05$ (Wastage @ 5%)= 106.05 m	meter	106.05	38.87	4122.16
1226	32 mm dia. ISI marked, PVC conduit = $50.0 + 2.5$ (Wastage @ 5%) = 52.5 m	meter	52.50	33.59	1763.48
1231	32 mm PVC bends	each	4.00	13.16	52.64
1236	32 mm PVC couplers	each	15.00	8.55	128.25
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.34	283.90
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					20468.53
Cartage @ 1 % of A1					204.69
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	3.25	368.00	1196.00
TOTAL					23291.97
OVERHEADS & PROFIT @ 15 %					3493.79
TOTAL					26785.76
Rate per meter					535.72
Say					536.00

1.14.11 4 X 16 sq. mm + 2 X 6 sq. mm earth wire**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= $50.5 \times 4 = 202.0 + 10.1$ (Wastage @ 5%)= 212.10 m	meter	212.10	102.36	21710.56
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= $50.5 \times 2 = 101.0 + 5.05$ (Wastage @ 5%)= 106.05 m	meter	106.05	38.87	4122.16
1227	40 mm dia. ISI marked, PVC conduit = $50.0 + 2.5$ (Wastage @ 5%) = 52.5 m	meter	52.50	47.37	2486.93
1232	40 mm PVC bends	each	4.00	20.98	83.92
1237	40 mm PVC couplers	each	15.00	10.44	156.60
1221	40 mm iron staples/ saddles/ screws	each	85.00	4.31	366.35

2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				28954.82
	Cartage @ 1 % of A1				289.55
	LABOUR				
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	3.25	368.00	1196.00
	TOTAL				31863.12
	OVERHEADS & PROFIT @ 15 %				4779.47
	TOTAL				36642.59
	Rate per meter				732.85
	Say				733.00

1.15 Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable and 1.5 sq. mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.

1.15.1 Group A

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	7.88	11.10	87.47
2859	Rubber/ PVC bushes	each	1.00	0.50	0.50
	Total cost of materials				87.97
	Cartage @ 1 % of A1				0.88
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				251.85
	OVERHEADS & PROFIT @ 15 %				37.78
	TOTAL				289.63
	Rate per point				289.63
	Say				290.00

1.15.2 Group B

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	10.50	11.10	116.55

CHAPTER-1 : WIRING

	= 2x4+1x2 = 10 + 0.5 (wastage @ 5%)				
	= 10.5m				
2859	Rubber/ PVC bushes	each	1.00	0.50	0.50
	Total cost of materials				117.05
	Cartage @ 1 % of A1				1.17
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				281.22
	OVERHEADS & PROFIT @ 15 %				42.18
	TOTAL				323.40
	Rate per point				323.40
	Say				323.00

1.15.3 Group C

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	13.15	11.10	145.97
	= 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%)				
	= 13.15m				
2859	Rubber/ PVC bushes	each	2.00	0.50	1.00
	Total cost of materials				146.97
	Cartage @ 1 % of A1				1.47
	LABOUR				
1001	Wireman	day	0.30	447.00	134.10
1007	Khallasi	day	0.30	368.00	110.40
	TOTAL				392.94
	OVERHEADS & PROFIT @ 15 %				58.94
	TOTAL				451.88
	Rate per point				451.88
	Say				452.00

1:16 Rewiring for twin control light point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable and 1.5 sq. mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	13.15	11.10	145.97
	= 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%)				

	= 13.15m				
2859	Rubber/ PVC bushes	each	2.00	0.50	1.00
	Total cost of materials				146.97
	Cartage @ 1 % of A1				1.47
	LABOUR				
1001	Wireman	day	0.30	447.00	134.10
1007	Khallasi	day	0.30	368.00	110.40
	TOTAL				392.94
	OVERHEADS & PROFIT @ 15 %				58.94
	TOTAL				451.88
	Rate per point				451.88
	Say				452.00

1.17 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.

1.17.1 1 x 1.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x1=50.5+2.53 (Wastage @ 5%) =53.03m	meter	53.03	11.10	588.63
	Total cost of materials				588.63
	Cartage @ 1 % of A1				5.89
	LABOUR				
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
	TOTAL				1002.02
	OVERHEADS & PROFIT @ 15 %				150.30
	TOTAL				1152.32
	Rate per meter				23.05
	Say				23.00

1.17.2 2 x 1.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2=101+5.05 (Wastage @ 5%) = 106.05m	meter	106.05	11.10	1177.16
	Total cost of materials				1177.16
	Cartage @ 1 % of A1				11.77

CHAPTER-1 : WIRING

LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					1596.43
OVERHEADS & PROFIT @ 15 %					239.46
TOTAL					1835.89
Rate per meter					36.72
Say					37.00

**1.17.3 3 x 1.5 sq. mm
COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x3=151.5+7.58 (Wastage @ 5%) =159.08m	meter	159.08	11.10	1765.79
Total cost of materials					1765.79
Cartage @ 1 % of A1					17.66
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					2190.95
OVERHEADS & PROFIT @ 15 %					328.64
TOTAL					2519.59
Rate per meter					50.39
Say					50.00

**1.17.4 4 x 1.5 sq. mm
COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 = 202 + 10.1 (Wastage @ 5%) = 212.1m	meter	212.10	11.10	2354.31
Total cost of materials					2354.31
Cartage @ 1 % of A1					23.54
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					2785.35
OVERHEADS & PROFIT @ 15 %					417.80
TOTAL					3203.15
Rate per meter					64.06
Say					64.00

1.17.5 5 x 1.5 sq. mm
COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x5=252.5+12.63 (Wastage @ 5%) =265.13m	meter	265.13	11.10	2942.94
Total cost of materials					2942.94
Cartage @ 1 % of A1					29.43
LABOUR					
1001	Wireman	day	0.75	447.00	335.25
1007	Khallasasi	day	0.75	368.00	276.00
TOTAL					3583.62
OVERHEADS & PROFIT @ 15 %					537.54
TOTAL					4121.16
Rate per meter					82.42
Say					82.00

1.17.6 6 x 1.5 sq. mm
COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x6 = 303 + 15.15 (Wastage @ 5%) = 318.15m	meter	318.15	11.10	3531.47
Total cost of materials					3531.47
Cartage @ 1 % of A1					35.31
LABOUR					
1001	Wireman	day	0.75	447.00	335.25
1007	Khallasasi	day	0.75	368.00	276.00
TOTAL					4178.03
OVERHEADS & PROFIT @ 15 %					626.71
TOTAL					4804.74
Rate per meter					96.09
Say					96.00

1.17.7 7 x 1.5 sq. mm
COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	371.18	11.10	4120.10

CHAPTER-1 : WIRING

	= 50.5x7 = 353.5 + 17.68 (Wastage @ 5%)				
	= 371.18m				
	Total cost of materials				4120.10
	Cartage @ 1 % of A1				41.20
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				4976.30
	OVERHEADS & PROFIT @ 15 %				746.45
	TOTAL				5722.75
	Rate per meter				114.46
	Say				114.00

1.17.8 8 x 1.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x8 = 404 + 20.2 (Wastage @ 5%) = 424.2m	meter	424.20	11.10	4708.62
	Total cost of materials				4708.62
	Cartage @ 1 % of A1				47.09
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				5570.71
	OVERHEADS & PROFIT @ 15 %				835.61
	TOTAL				6406.32
	Rate per meter				128.13
	Say				128.00

1.17.9 9 x 1.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x9 = 454.5 + 22.73 (Wastage @ 5%) = 477.23m	meter	477.23	11.10	5297.25
	Total cost of materials				5297.25
	Cartage @ 1 % of A1				52.97
	LABOUR				
1001	Wireman	day	1.50	447.00	670.50

1007	Khallasi	day	1.50	368.00	552.00
	TOTAL				6572.72
	OVERHEADS & PROFIT @ 15 %				985.91
	TOTAL				7558.63
	Rate per meter				151.17
	Say				151.00

1.17.10 10 x 1.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x10 = 505 + 25.25 (Wastage @ 5%) = 530.25m	meter	530.25	11.10	5885.78
	Total cost of materials				5885.78
	Cartage @ 1 % of A1				58.86
	LABOUR				
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	1.50	368.00	552.00
	TOTAL				7167.14
	OVERHEADS & PROFIT @ 15 %				1075.07
	TOTAL				8242.21
	Rate per meter				164.84
	Say				165.00

1.17.11 2 x 2.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2=101+5.05 (Wastage @ 5%) = 106.05m	meter	106.05	17.84	1891.93
	Total cost of materials				1891.93
	Cartage @ 1 % of A1				18.92
	LABOUR				
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
	TOTAL				2318.35
	OVERHEADS & PROFIT @ 15 %				347.75
	TOTAL				2666.10
	Rate per meter				53.32
	Say				53.00

CHAPTER-1 : WIRING

1.17.12 3 x 2.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x3=151.5+7.58 (Wastage @ 5%) =159.08m	meter	159.08	17.84	2837.99
	Total cost of materials				2837.99
	Cartage @ 1 % of A1				28.38
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
	TOTAL				3273.87
	OVERHEADS & PROFIT @ 15 %				491.08
	TOTAL				3764.95
	Rate per meter				75.30
	Say				75.00

1.17.13 4 x 2.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 = 202 + 10.1 (Wastage @ 5%) = 212.1m	meter	212.10	17.84	3783.86
	Total cost of materials				3783.86
	Cartage @ 1 % of A1				37.84
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
	TOTAL				4229.20
	OVERHEADS & PROFIT @ 15 %				634.38
	TOTAL				4863.58
	Rate per meter				97.27
	Say				97.00

1.17.14 5 x 2.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1102	2.5 sq. mm ISI marked, FRLS PVC insulated,				

	single core copper conductor cable	meter	265.13	17.84	4729.92
	=50.5x5=252.5+12.63 (Wastage @ 5%)				
	=265.13m				
	Total cost of materials				4729.92
	Cartage @ 1 % of A1				47.30
	LABOUR				
1001	Wireman	day	0.75	447.00	335.25
1007	Khallasi	day	0.75	368.00	276.00
	TOTAL				5388.47
	OVERHEADS & PROFIT @ 15 %				808.27
	TOTAL				6196.74
	Rate per meter				123.93
	Say				124.00

1.17.15 6 x 2.5 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	318.15	17.84	5675.80
	= 50.5x6 = 303 + 15.15 (Wastage @ 5%)				
	= 318.15m				
	Total cost of materials				5675.80
	Cartage @ 1 % of A1				56.76
	LABOUR				
1001	Wireman	day	0.75	447.00	335.25
1007	Khallasi	day	0.75	368.00	276.00
	TOTAL				6343.81
	OVERHEADS & PROFIT @ 15 %				951.57
	TOTAL				7295.38
	Rate per meter				145.91
	Say				146.00

1.17.16 7 x 2.5 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	371.18	17.84	6621.85
	= 50.5x7 = 353.5 + 17.68 (Wastage @ 5%) = 371.18m				
	Total cost of materials				6621.85
	Cartage @ 1 % of A1				66.22
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00

CHAPTER-1 : WIRING

1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				7503.07
	OVERHEADS & PROFIT @ 15 %				1125.46
	TOTAL				8628.53
	Rate per meter				172.57
	Say				173.00

1.17.17 8 x 2.5 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x8 = 404 + 20.2 (Wastage @ 5%) = 424.2m	meter	424.20	17.84	7567.73
	Total cost of materials				7567.73
	Cartage @ 1 % of A1				75.68
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				8458.41
	OVERHEADS & PROFIT @ 15 %				1268.76
	TOTAL				9727.17
	Rate per meter				194.54
	Say				195.00

1.17.18 9 x 2.5 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x9 = 454.5 + 22.73 (Wastage @ 5%) = 477.23m	meter	477.23	17.84	8513.78
	Total cost of materials				8513.78
	Cartage @ 1 % of A1				85.14
	LABOUR				
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	1.50	368.00	552.00
	TOTAL				9821.42
	OVERHEADS & PROFIT @ 15 %				1473.21
	TOTAL				11294.63
	Rate per meter				225.89
	Say				226.00

1.17.19 10 x 2.5 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x10 = 505 + 25.25 (Wastage @ 5%) = 530.25m	meter	530.25	17.84	9459.66
Total cost of materials					9459.66
Cartage @ 1 % of A1					94.60
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	1.50	368.00	552.00
TOTAL					10776.76
OVERHEADS & PROFIT @ 15 %					1616.51
TOTAL					12393.27
Rate per meter					247.87
Say					248.00

1.17.20 2 x 4 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2=101+5.05 (Wastage @ 5%) = 106.05m	meter	106.05	26.18	2776.39
Total cost of materials					2776.39
Cartage @ 1 % of A1					27.76
LABOUR					
1001	Wireman	day	0.75	447.00	335.25
1007	Khallasi	day	0.75	368.00	276.00
TOTAL					3415.40
OVERHEADS & PROFIT @ 15 %					512.31
TOTAL					3927.71
Rate per meter					78.55
Say					79.00

1.17.21 3 x 4 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated,				

CHAPTER-1 : WIRING

	single core copper conductor cable	meter	159.08	26.18	4164.71
	=50.5x3=151.5+7.58 (Wastage @ 5%)				
	=159.08m				
	Total cost of materials				4164.71
	Cartage @ 1 % of A1				41.65
	LABOUR				
1001	Wireman	day	0.75	447.00	335.25
1007	Khallasasi	day	0.75	368.00	276.00
	TOTAL				4817.61
	OVERHEADS & PROFIT @ 15 %				722.64
	TOTAL				5540.25
	Rate per meter				110.80
	Say				111.00

1.17.22 4 x 4 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	212.10	26.18	5552.78
	=50.5x4 = 202 + 10.1 (Wastage @ 5%)				
	= 212.1m				
	Total cost of materials				5552.78
	Cartage @ 1 % of A1				55.53
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasasi	day	1.00	368.00	368.00
	TOTAL				6423.31
	OVERHEADS & PROFIT @ 15 %				963.50
	TOTAL				7386.81
	Rate per meter				147.74
	Say				148.00

1.17.23 5 x 4 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	265.13	26.18	6941.10
	=50.5x5=252.5+12.63 (Wastage @ 5%)				
	=265.13m				
	Total cost of materials				6941.10
	Cartage @ 1 % of A1				69.41
	LABOUR				

1001	Wireman	day	1.10	447.00	491.70
1007	Khallasi	day	1.10	368.00	404.80
	TOTAL				7907.01
	OVERHEADS & PROFIT @ 15 %				1186.05
	TOTAL				9093.06
	Rate per meter				181.86
	Say				182.00

1.17.24 6 x 4 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x6 = 303 + 15.15 (Wastage @ 5%) = 318.15m	meter	318.15	26.18	8329.17
	Total cost of materials				8329.17
	Cartage @ 1 % of A1				83.29
	LABOUR				
1001	Wireman	day	1.10	447.00	491.70
1007	Khallasi	day	1.10	368.00	404.80
	TOTAL				9308.96
	OVERHEADS & PROFIT @ 15 %				1396.34
	TOTAL				10705.30
	Rate per meter				214.11
	Say				214.00

1.17.25 7 x 4 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x7 = 353.5 + 17.68 (Wastage @ 5%) = 371.18m	meter	371.18	26.18	9717.49
	Total cost of materials				9717.49
	Cartage @ 1 % of A1				97.17
	LABOUR				
1001	Wireman	day	1.15	447.00	514.05
1007	Khallasi	day	1.15	368.00	423.20
	TOTAL				10751.91
	OVERHEADS & PROFIT @ 15 %				1612.79
	TOTAL				12364.70
	Rate per meter				247.29
	Say				247.00

CHAPTER-1 : WIRING

1.17.26 8 x 4 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x8 = 404 + 20.2 (Wastage @ 5%) = 424.2m	meter	424.20	26.18	11105.56
	Total cost of materials				11105.56
	Cartage @ 1 % of A1				111.06
LABOUR					
1001	Wireman	day	1.15	447.00	514.05
1007	Khallasi	day	1.15	368.00	423.20
	TOTAL				12153.87
	OVERHEADS & PROFIT @ 15 %				1823.08
	TOTAL				13976.95
	Rate per meter				279.54
	Say				280.00

1.17.27 9 x 4 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x9 = 454.5 + 22.73 (Wastage @ 5%) = 477.23m	meter	477.23	26.18	12493.88
	Total cost of materials				12493.88
	Cartage @ 1 % of A1				124.94
LABOUR					
1001	Wireman	day	1.25	447.00	558.75
1007	Khallasi	day	1.25	368.00	460.00
	TOTAL				13637.57
	OVERHEADS & PROFIT @ 15 %				2045.64
	TOTAL				15683.21
	Rate per meter				313.66
	Say				314.00

1.17.28 10 x 4 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated,				

	single core copper conductor cable	meter	530.25	26.18	13881.95
	= 50.5x10 = 505 + 25.25 (Wastage @ 5%)				
	= 530.25m				
	Total cost of materials				13881.95
	Cartage @ 1 % of A1				138.82
	LABOUR				
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	1.50	368.00	552.00
	TOTAL				15243.27
	OVERHEADS & PROFIT @ 15 %				2286.49
	TOTAL				17529.76
	Rate per meter				350.60
	Say				351.00

1.17.29 2 x 6 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	106.05	38.87	4122.16
	=50.5x2=101+5.05 (Wastage @ 5%)				
	= 106.05m				
	Total cost of materials				4122.16
	Cartage @ 1 % of A1				41.22
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				4978.38
	OVERHEADS & PROFIT @ 15 %				746.76
	TOTAL				5725.14
	Rate per meter				114.50
	Say				115.00

1.17.30 3 x 6 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	159.08	38.87	6183.44
	=50.5x3=151.5+7.58 (Wastage @ 5%)				
	=159.08m				
	Total cost of materials				6183.44
	Cartage @ 1 % of A1				61.83
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00

CHAPTER-1 : WIRING

1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				7060.27
	OVERHEADS & PROFIT @ 15 %				1059.04
	TOTAL				8119.31
	Rate per meter				162.39
	Say				162.00

1.17.31 4 x 6 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 = 202 + 10.1 (Wastage @ 5%) = 212.1m	meter	212.10	38.87	8244.33
	Total cost of materials				8244.33
	Cartage @ 1 % of A1				82.44
	LABOUR				
1001	Wireman	day	1.25	447.00	558.75
1007	Khallasi	day	1.25	368.00	460.00
	TOTAL				9345.52
	OVERHEADS & PROFIT @ 15 %				1401.83
	TOTAL				10747.35
	Rate per meter				214.95
	Say				215.00

1.17.32 5 x 6 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x5=252.5+12.63 (Wastage @ 5%) =265.13m	meter	265.13	38.87	10305.60
	Total cost of materials				10305.60
	Cartage @ 1 % of A1				103.06
	LABOUR				
1001	Wireman	day	1.25	447.00	558.75
1007	Khallasi	day	1.25	368.00	460.00
	TOTAL				11427.41
	OVERHEADS & PROFIT @ 15 %				1714.11
	TOTAL				13141.52
	Rate per meter				262.83
	Say				263.00

1.17.33 6 x 6 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x6 = 303 + 15.15 (Wastage @ 5%) = 318.15m	meter	318.15	38.87	12366.49
Total cost of materials					12366.49
Cartage @ 1 % of A1					123.66
LABOUR					
1001	Wireman	day	1.75	447.00	782.25
1007	Khallasi	day	1.75	368.00	644.00
TOTAL					13916.40
OVERHEADS & PROFIT @ 15 %					2087.46
TOTAL					16003.86
Rate per meter					320.08
Say					320.00

1.17.34 7 x 6 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x7 = 353.5 + 17.68 (Wastage @ 5%) = 371.18m	meter	371.18	38.87	14427.77
Total cost of materials					14427.77
Cartage @ 1 % of A1					144.28
LABOUR					
1001	Wireman	day	1.75	447.00	782.25
1007	Khallasi	day	1.75	368.00	644.00
TOTAL					15998.30
OVERHEADS & PROFIT @ 15 %					2399.74
TOTAL					18398.04
Rate per meter					367.96
Say					368.00

1.17.35 8 x 6 sq. mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1104	6.0 sq. mm ISI marked, FRLS PVC insulated,				

CHAPTER-1 : WIRING

	single core copper conductor cable	meter	424.20	38.87	16488.65
	= 50.5x8 = 404 + 20.2 (Wastage @ 5%)				
	= 424.2m				
	Total cost of materials				16488.65
	Cartage @ 1 % of A1				164.89
	LABOUR				
1001	Wireman	day	2.00	447.00	894.00
1007	Khallasi	day	2.00	368.00	736.00
	TOTAL				18283.54
	OVERHEADS & PROFIT @ 15 %				2742.53
	TOTAL				21026.07
	Rate per meter				420.52
	Say				421.00

1.17.36 9 x 6 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	477.23	38.87	18549.93
	= 50.5x9 = 454.5 + 22.73 (Wastage @ 5%)				
	= 477.23m				
	Total cost of materials				18549.93
	Cartage @ 1 % of A1				185.50
	LABOUR				
1001	Wireman	day	2.00	447.00	894.00
1007	Khallasi	day	2.00	368.00	736.00
	TOTAL				20365.43
	OVERHEADS & PROFIT @ 15 %				3054.81
	TOTAL				23420.24
	Rate per meter				468.40
	Say				468.00

1.17.37 10 x 6 sq. mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	530.25	38.87	20610.82
	= 50.5x10 = 505 + 25.25 (Wastage @ 5%)				
	= 530.25m				
	Total cost of materials				20610.82
	Cartage @ 1 % of A1				206.11
	LABOUR				
1001	Wireman	day	2.13	447.00	952.11

1007	Khallasi	day	2.13	368.00	783.84
	TOTAL				22552.88
	OVERHEADS & PROFIT @ 15 %				3382.93
	TOTAL				25935.81
	Rate per meter				518.72
	Say				519.00

1.18 Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.

1.18.1 1 Pair

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1111	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable = 50.5x1 = 50.5 + 2.53 (Wastage @ 5%) = 53.03m	meter	53.03	4.71	249.77
	Total cost of materials				249.77
	Cartage @ 1 % of A1				2.50
	LABOUR				
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
	TOTAL				659.77
	OVERHEADS & PROFIT @ 15 %				98.97
	TOTAL				758.74
	Rate per meter				15.17
	Say				15.00

1.18.2 2 Pair

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1112	2 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable = 50.5x1 = 50.5 + 2.53 (Wastage @ 5%) = 53.03m	meter	53.03	7.94	421.06
	Total cost of materials				421.06
	Cartage @ 1 % of A1				4.21
	LABOUR				
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00

TOTAL	832.77
OVERHEADS & PROFIT @ 15 %	124.92
TOTAL	957.69
Rate per meter	19.15
Say	19.00

1.18.3 4 Pair**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1113	4 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable = 50.5x1 = 50.5 + 2.53 (Wastage @ 5%) = 53.03m	meter	53.03	15.30	811.36
Total cost of materials					811.36
Cartage @ 1 % of A1					8.11
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					1226.97
OVERHEADS & PROFIT @ 15 %					184.05
TOTAL					1411.02
Rate per meter					28.22
Say					28.00

1.19 Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1114	Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath = 50.5x1 = 50.5 + 2.53 (Wastage @ 5%) = 53.03m	meter	53.03	15.67	830.98
Total cost of materials					830.98
Cartage @ 1 % of A1					8.31
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					1246.79

OVERHEADS & PROFIT @ 15 %	187.02
TOTAL	1433.81
Rate per meter	28.68
Say	29.00

1.20 Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.

1.20.1 20 mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1201	20 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	60.01	3150.53
1206	20 mm inspection/ solid bends	each	4.00	7.61	30.44
1211	20 mm sockets	each	15.00	6.93	103.95
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
Total cost of materials					3449.22
Cartage @ 1 % of A1					34.49
LABOUR					
1001	Wireman	day	1.75	447.00	782.25
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	2.50	368.00	920.00
TOTAL					5493.25
OVERHEADS & PROFIT @ 15 %					823.99
TOTAL					6317.24
Rate per meter					126.34
Say					126.00

1.20.2 25 mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	75.60	3969.00
1207	25 mm inspection/ solid bends	each	4.00	13.39	53.56
1212	25 mm sockets	each	15.00	7.56	113.40
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
Total cost of materials					4350.41
Cartage @ 1 % of A1					43.50

CHAPTER-1 : WIRING

LABOUR					
1001	Wireman	day	1.75	447.00	782.25
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	2.50	368.00	920.00
TOTAL					6403.45
OVERHEADS & PROFIT @ 15 %					960.52
TOTAL					7363.97
Rate per meter					147.28
Say					147.00

1.20.3 32 mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	113.40	5953.50
1208	32 mm inspection/ solid bends	each	4.00	25.20	100.80
1213	32 mm sockets	each	15.00	9.77	146.55
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.34	283.90
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
Total cost of materials					6513.05
Cartage @ 1 % of A1					65.13
LABOUR					
1001	Wireman	day	1.75	447.00	782.25
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	2.50	368.00	920.00
TOTAL					8587.72
OVERHEADS & PROFIT @ 15 %					1288.16
TOTAL					9875.88
Rate per meter					197.52
Say					198.00

1.20.4 40 mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1204	40 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	184.28	9674.70
1209	40 mm inspection/ solid bends	each	4.00	34.13	136.52
1214	40 mm sockets	each	15.00	13.86	207.90
1221	40 mm iron staples/ saddles/ screws	each	85.00	4.31	366.35
2857	PVC fastener 40mm long	each	85.00	0.28	23.80

2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
	Total cost of materials				10413.77
	Cartage @ 1 % of A1				104.14
	LABOUR				
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	2.75	368.00	1012.00
	TOTAL				12731.20
	OVERHEADS & PROFIT @ 15 %				1909.68
	TOTAL				14640.88
	Rate per meter				292.82
	Say				293.00

1.20.5 50 mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1205	50 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	259.88	13643.70
1210	50 mm inspection/ solid bends	each	4.00	49.88	199.52
1215	50 mm sockets	each	15.00	13.86	207.90
1222	50 mm iron staples/ saddles/ screws	each	85.00	5.71	485.35
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
	Total cost of materials				14564.77
	Cartage @ 1 % of A1				145.65
	LABOUR				
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	2.75	368.00	1012.00
	TOTAL				16923.71
	OVERHEADS & PROFIT @ 15 %				2538.56
	TOTAL				19462.27
	Rate per meter				389.25
	Say				389.00

1.21 Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.

1.21.1 20 mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	11.81	620.03
1229	20 mm PVC bends	each	4.00	5.65	22.60
1234	20 mm PVC couplers	each	15.00	3.50	52.50
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.60	136.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
	Total cost of materials				859.43
	Cartage @ 1 % of A1				8.59
	LABOUR				
1001	Wireman	day	1.25	447.00	558.75
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.00	368.00	736.00
	TOTAL				2468.02
	OVERHEADS & PROFIT @ 15 %				370.20
	TOTAL				2838.22
	Rate per meter				56.76
	Say				57.00

1.21.2 25 mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	20.32	1066.80
1230	25 mm PVC bends	each	4.00	7.70	30.80
1235	25 mm PVC couplers	each	15.00	5.24	78.60
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.19	186.15
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
	Total cost of materials				1390.65
	Cartage @ 1 % of A1				13.91
	LABOUR				
1001	Wireman	day	1.25	447.00	558.75
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.00	368.00	736.00
	TOTAL				3004.56
	OVERHEADS & PROFIT @ 15 %				450.68
	TOTAL				3455.24
	Rate per meter				69.10
	Say				69.00

1.21.3 32 mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	33.59	1763.48
1231	32 mm PVC bends	each	4.00	13.16	52.64
1236	32 mm PVC couplers	each	15.00	8.55	128.25
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.34	283.90
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
Total cost of materials					2256.57
Cartage @ 1 % of A1					22.57
LABOUR					
1001	Wireman	day	1.25	447.00	558.75
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.00	368.00	736.00
TOTAL					3879.14
OVERHEADS & PROFIT @ 15 %					581.87
TOTAL					4461.01
Rate per meter					89.22
Say					89.00

1.21.4 40 mm**COST FOR 50 METERS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1227	40 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	47.37	2486.93
1232	40 mm PVC bends	each	4.00	20.98	83.92
1237	40 mm PVC couplers	each	15.00	10.44	156.60
1221	40 mm iron staples/ saddles/ screws	each	85.00	4.31	366.35
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
Total cost of materials					3122.10
Cartage @ 1 % of A1					31.22
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.25	368.00	828.00
TOTAL					4957.07
OVERHEADS & PROFIT @ 15 %					743.56
TOTAL					5700.63
Rate per meter					114.01
Say					114.00

1.21.5 50 mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
1228	50 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	71.35	3745.88
1233	50 mm PVC bends	each	4.00	34.07	136.28
1238	50 mm PVC couplers	each	15.00	13.06	195.90
1222	50 mm iron staples/ saddles/ screws	each	85.00	5.71	485.35
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
2935	Cement, paint, sand etc.	LS	1.00	4.50	4.50
	Total cost of materials				4591.71
	Cartage @ 1 % of A1				45.92
	LABOUR				
1001	Wireman	day	1.50	447.00	670.50
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.25	368.00	828.00
	TOTAL				6441.38
	OVERHEADS & PROFIT @ 15 %				966.21
	TOTAL				7407.59
	Rate per meter				148.15
	Say				148.00

1.22 Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.

1.22.1 75 mm X 75 mm X 60 mm deep

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	20.00	20.00
1322	3 mm thick phenolic laminated sheet	sq.cm	64.00	0.10	6.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.40	0.80
2920	Washers	each	2.00	0.17	0.34
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				32.60
	Cartage @ 1 % of A1				0.33
	LABOUR				
1001	Wireman	day	0.02	447.00	8.94
1010	Mason, Grade 2	day	0.04	407.00	16.28
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.06	368.00	22.08
	TOTAL				82.27

OVERHEADS & PROFIT @ 15 %	12.34
TOTAL	94.61
Rate for Each	94.61
Say	95.00

1.22.2 100 mm X 100 mm X 60 mm deep**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1307	100 mm X 100 mm X 60 mm deep metal box	each	1.00	30.71	30.71
1322	3 mm thick phenolic laminated sheet	sq.cm	121.00	0.10	12.10
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.40	0.80
2920	Washers	each	2.00	0.17	0.34
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					49.01
Cartage @ 1 % of A1					0.49
LABOUR					
1001	Wireman	day	0.02	447.00	8.94
1010	Mason, Grade 2	day	0.04	407.00	16.28
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					98.84
OVERHEADS & PROFIT @ 15 %					14.83
TOTAL					113.67
Rate for Each					113.67
Say					114.00

1.22.3 150 mm X 75 mm X 60 mm deep**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1308	150 mm X 75 mm X 60 mm deep metal box	each	1.00	32.55	32.55
1322	3 mm thick phenolic laminated sheet	sq.cm	136.00	0.10	13.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.40	0.80
2920	Washers	each	2.00	0.17	0.34
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					52.35
Cartage @ 1 % of A1					0.52
LABOUR					
1001	Wireman	day	0.02	447.00	8.94
1010	Mason, Grade 2	day	0.04	407.00	16.28
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.06	368.00	22.08

CHAPTER-1 : WIRING

TOTAL	102.21
OVERHEADS & PROFIT @ 15 %	15.33
TOTAL	117.54
Rate for Each	117.54
Say	118.00

1.22.4 150 mm X 150 mm X 60 mm deep**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1309	150 mm X 150 mm X 60 mm deep metal box	each	1.00	46.68	46.68
1322	3 mm thick phenolic laminated sheet	sq. cm	256.00	0.10	25.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					80.18
Cartage @ 1 % of A1					0.80
LABOUR					
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.05	407.00	20.35
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.080	368.00	29.44
TOTAL					146.22
OVERHEADS & PROFIT @ 15 %					21.93
TOTAL					168.15
Rate for Each					168.15
Say					168.00

1.22.5 180 mm X 100 mm X 60 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1310	180 mm X 100 mm X 60 mm deep metal box	each	1.00	39.31	39.31
1322	3 mm thick phenolic laminated sheet	sq.cm	205.00	0.10	20.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.40	0.80
2920	Washers	each	2.00	0.17	0.34
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					66.01
Cartage @ 1 % of A1					0.66
LABOUR					
1001	Wireman	day	0.020	447.00	8.94
1010	Mason, Grade 2	day	0.04	407.00	16.28
1006	Painter	day	0.005	407.00	2.04

1007	Khallasi	day	0.06	368.00	22.08
	TOTAL				116.01
	OVERHEADS & PROFIT @ 15 %				17.40
	TOTAL				133.41
	Rate for Each				133.41
	Say				133.00

1.22.6 200 mm X 125 mm X 60 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1311	200 mm X 125 mm X 60 mm deep metal box	each	1.00	49.00	49.00
1322	3 mm thick phenolic laminated sheet	sq.cm	284.00	0.10	28.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				85.30
	Cartage @ 1 % of A1				0.85
LABOUR					
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.05	407.00	20.35
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.080	368.00	29.44
	TOTAL				151.39
	OVERHEADS & PROFIT @ 15 %				22.71
	TOTAL				174.10
	Rate for Each				174.10
	Say				174.00

1.22.7 200 mm X 150 mm X 60 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1312	200 mm X 150 mm X 60 mm deep metal box	each	1.00	61.00	61.00
1322	3 mm thick phenolic laminated sheet	sq.cm	336.00	0.10	33.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				102.50
	Cartage @ 1 % of A1				1.03
LABOUR					
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.05	407.00	20.35

CHAPTER-1 : WIRING

1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.080	368.00	29.44
	TOTAL				168.77
	OVERHEADS & PROFIT @ 15 %				25.31
	TOTAL				194.08
	Rate for Each				194.08
	Say				194.00

1.22.8 200 mm X 150 mm X 75 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1316	200 mm X 150 mm X 75 mm deep metal box	each	1.00	67.00	67.00
1322	3 mm thick phenolic laminated sheet	sq.cm	336.00	0.10	33.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				108.50
	Cartage @ 1 % of A1				1.09
LABOUR					
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.05	407.00	20.35
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.080	368.00	29.44
	TOTAL				174.83
	OVERHEADS & PROFIT @ 15 %				26.22
	TOTAL				201.05
	Rate for Each				201.05
	Say				201.00

1.22.9 200 mm X 250 mm X 60 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1313	200 mm X 250 mm X 60 mm deep metal box	each	1.00	79.00	79.00
1322	3 mm thick phenolic laminated sheet	sq.cm	557.00	0.10	55.70
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
	Total cost of materials				147.10
	Cartage @ 1 % of A1				1.47
LABOUR					
1001	Wireman	day	0.030	447.00	13.41

1010	Mason, Grade 2	day	0.06	407.00	24.42
1006	Painter	day	0.005	407.00	2.04
1007	Khallas	day	0.090	368.00	33.12
TOTAL					221.56
OVERHEADS & PROFIT @ 15 %					33.23
TOTAL					254.79
Rate for Each					254.79
Say					255.00

1.22.10 200 mm X 250 mm X 75 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1317	200 mm X 250 mm X 75 mm deep metal box	each	1.00	92.00	92.00
1322	3 mm thick phenolic laminated sheet	sq.cm	557.00	0.10	55.70
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
Total cost of materials					160.10
Cartage @ 1 % of A1					1.60
LABOUR					
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.06	407.00	24.42
1006	Painter	day	0.005	407.00	2.04
1007	Khallas	day	0.090	368.00	33.12
TOTAL					234.69
OVERHEADS & PROFIT @ 15 %					35.20
TOTAL					269.89
Rate for Each					269.89
Say					270.00

1.22.11 200 mm X 150 mm X 100 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1318	200 mm X 150 mm X 100 mm deep metal box	each	1.00	81.00	81.00
1322	3 mm thick phenolic laminated sheet	sq.cm	336.00	0.10	33.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
Total cost of materials					127.00
Cartage @ 1 % of A1					1.27
LABOUR					

CHAPTER-1 : WIRING

1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.06	407.00	24.42
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.090	368.00	33.12
TOTAL					201.26
OVERHEADS & PROFIT @ 15 %					30.19
TOTAL					231.45
Rate for Each					231.45
Say					231.00

1.22.12 200 mm X 250 mm X 100 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1319	200 mm X 250 mm X 100 mm deep metal box	each	1.00	104.00	104.00
1322	3 mm thick phenolic laminated sheet	sq.cm	557.00	0.10	55.70
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
Total cost of materials					172.10
Cartage @ 1 % of A1					1.72
LABOUR					
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.06	407.00	24.42
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.090	368.00	33.12
TOTAL					246.81
OVERHEADS & PROFIT @ 15 %					37.02
TOTAL					283.83
Rate for Each					283.83
Say					284.00

1.22.13 200 mm X 300 mm X 60 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1314	200 mm X 300 mm X 60 mm deep metal box	each	1.00	110.00	110.00
1322	3 mm thick phenolic laminated sheet	sq.cm	662.00	0.10	66.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
Total cost of materials					188.60
Cartage @ 1 % of A1					1.89

LABOUR					
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.06	407.00	24.42
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.090	368.00	33.12
TOTAL					263.48
OVERHEADS & PROFIT @ 15 %					39.52
TOTAL					303.00
Rate for Each					303.00
Say					303.00

1.22.14 200 mm X 300 mm X 100 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1320	200 mm X 300 mm X 100 mm deep metal box	each	1.00	122.00	122.00
1322	3 mm thick phenolic laminated sheet	sq.cm	662.00	0.10	66.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
Total cost of materials					200.60
Cartage @ 1 % of A1					2.01
LABOUR					
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.06	407.00	24.42
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.090	368.00	33.12
TOTAL					275.60
OVERHEADS & PROFIT @ 15 %					41.34
TOTAL					316.94
Rate for Each					316.94
Say					317.00

1.22.15 250 mm X 300 mm X 60 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1315	250 mm X 300 mm X 60 mm deep metal box	each	1.00	122.00	122.00
1322	3 mm thick phenolic laminated sheet	sq.cm	835.00	0.10	83.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
Total cost of materials					217.90

CHAPTER-1 : WIRING

	Cartage @ 1 % of A1				2.18
	LABOUR				
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.06	407.00	24.42
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.090	368.00	33.12
	TOTAL				293.07
	OVERHEADS & PROFIT @ 15 %				43.96
	TOTAL				337.03
	Rate for Each				337.03
	Say				337.00

1.22.16 250 mm X 300 mm X 100 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1321	250 mm X 300 mm X 100 mm deep metal box	each	1.00	153.00	153.00
1322	3 mm thick phenolic laminated sheet	sq.cm	835.00	0.10	83.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
	Total cost of materials				248.90
	Cartage @ 1 % of A1				2.49
	LABOUR				
1001	Wireman	day	0.030	447.00	13.41
1010	Mason, Grade 2	day	0.06	407.00	24.42
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.090	368.00	33.12
	TOTAL				324.38
	OVERHEADS & PROFIT @ 15 %				48.66
	TOTAL				373.04
	Rate for Each				373.04
	Say				373.00

1.23 Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.

1.23.1 5/6 A switch

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1431	S.P. 5/6 A, one way switch, piano type ISI marked each	each	1.00	13.30	13.30
	Total cost of materials				13.30

	Cartage @ 1 % of A1				0.13
	LABOUR				
1001	Wireman	day	0.02	447.00	8.94
1007	Khallasi	day	0.02	368.00	7.36
	TOTAL				29.73
	OVERHEADS & PROFIT @ 15 %				4.46
	TOTAL				34.19
	Rate for Each				34.19
	Say				34.00

1.23.2 2 way 5/6 A switch**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1432	S.P. 5/6 A, two way switch, piano type ISI marked	each	1.00	17.37	17.37
	Total cost of materials				17.37
	Cartage @ 1 % of A1				0.17
	LABOUR				
1001	Wireman	day	0.02	447.00	8.94
1007	Khallasi	day	0.02	368.00	7.36
	TOTAL				33.84
	OVERHEADS & PROFIT @ 15 %				5.08
	TOTAL				38.92
	Rate for Each				38.92
	Say				39.00

1.23.3 15/16 A switch**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1433	S.P. 15/16 A, one way switch, piano type ISI marked	each	1.00	40.00	40.00
	Total cost of materials				40.00
	Cartage @ 1 % of A1				0.40
	LABOUR				
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04
	TOTAL				64.85
	OVERHEADS & PROFIT @ 15 %				9.73
	TOTAL				74.58
	Rate for Each				74.58
	Say				75.00

1.23.4 3 pin 5/6 A socket outlet**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1434	3 pin 5/6 A socket outlet, piano type ISI marked	each	1.00	20.26	20.26
Total cost of materials					20.26
Cartage @ 1 % of A1					0.20
LABOUR					
1001	Wireman	day	0.02	447.00	8.94
1007	Khallas	day	0.02	368.00	7.36
TOTAL					36.76
OVERHEADS & PROFIT @ 15 %					5.51
TOTAL					42.27
Rate for Each					42.27
Say					42.00

1.23.5 6 pin 15/16 A socket outlet**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1435	6 pin 15/16 & 5/6 A socket outlet, piano type ISI marked	each	1.00	50.00	50.00
Total cost of materials					50.00
Cartage @ 1 % of A1					0.50
LABOUR					
1001	Wireman	day	0.03	447.00	13.41
1007	Khallas	day	0.03	368.00	11.04
TOTAL					74.95
OVERHEADS & PROFIT @ 15 %					11.24
TOTAL					86.19
Rate for Each					86.19
Say					86.00

1.23.6 Telephone socket outlet**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1437	Telephone Socket outlet piano type	each	1.00	23.15	23.15
Total cost of materials					23.15
Cartage @ 1 % of A1					0.23
LABOUR					
1001	Wireman	day	0.03	447.00	13.41

1007	Khallasi	day	0.03	368.00	11.04
	TOTAL				47.83
	OVERHEADS & PROFIT @ 15 %				7.17
	TOTAL				55.00
	Rate for Each				55.00
	Say				55.00

1.23.7 TV antenna socket outlet**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1438	T.V. Socket outlet piano type	each	1.00	17.37	17.37
	Total cost of materials				17.37
	Cartage @ 1 % of A1				0.17
	LABOUR				
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04
	TOTAL				41.99
	OVERHEADS & PROFIT @ 15 %				6.30
	TOTAL				48.29
	Rate for Each				48.29
	Say				48.00

1.23.8 Bell push**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1436	Bell push, piano type	each	1.00	15.91	15.91
	Total cost of materials				15.91
	Cartage @ 1 % of A1				0.16
	LABOUR				
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04
	TOTAL				40.52
	OVERHEADS & PROFIT @ 15 %				6.08
	TOTAL				46.60
	Rate for Each				46.60
	Say				47.00

1.24 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.

1.24.1 5/6 A switch**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	48.00	48.00
Total cost of materials					48.00
Cartage @ 1 % of A1					0.48
LABOUR					
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04
TOTAL					72.93
OVERHEADS & PROFIT @ 15 %					10.94
TOTAL					83.87
Rate for Each					83.87
Say					84.00

1.24.2 2 way 5/6 A switch**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1403	S.P. 5/6 A, two way modular switch, ISI marked	each	1.00	60.80	60.80
Total cost of materials					60.80
Cartage @ 1 % of A1					0.61
LABOUR					
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04
TOTAL					85.86
OVERHEADS & PROFIT @ 15 %					12.88
TOTAL					98.74
Rate for Each					98.74
Say					99.00

1.24.3 15/16 A switch**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1404	S.P. 15/16 A, one way modular switch, ISI marked	each	1.00	73.60	73.60
Total cost of materials					73.60
Cartage @ 1 % of A1					0.74

LABOUR					
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04
TOTAL					98.79
OVERHEADS & PROFIT @ 15 %					14.82
TOTAL					113.61
Rate for Each					113.61
Say					114.00

1.24.4 3 pin 5/6 A socket outlet**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1405	3 pin 5/6 A modular socket outlet, ISI marked	each	1.00	53.60	53.60
Total cost of materials					53.60
Cartage @ 1 % of A1					0.54
LABOUR					
1001	Wireman	day	0.02	447.00	8.94
1007	Khallasi	day	0.02	368.00	7.36
TOTAL					70.44
OVERHEADS & PROFIT @ 15 %					10.57
TOTAL					81.01
Rate for Each					81.01
Say					81.00

1.24.5 6 pin 15/16 A socket outlet**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1406	6 pin 15/16 A modular socket outlet, ISI marked	each	1.00	107.60	107.60
Total cost of materials					107.60
Cartage @ 1 % of A1					1.08
LABOUR					
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04
TOTAL					133.13
OVERHEADS & PROFIT @ 15 %					19.97
TOTAL					153.10
Rate for Each					153.10
Say					153.00

CHAPTER-1 : WIRING

1.24.6 Telephone socket outlet**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1409	Telephone Socket outlet modular type	each	1.00	58.50	58.50
Total cost of materials					58.50
Cartage @ 1 % of A1					0.59
LABOUR					
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04
TOTAL					83.54
OVERHEADS & PROFIT @ 15 %					12.53
TOTAL					96.07
Rate for Each					96.07
Say					96.00

1.24.7 TV antenna socket outlet**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1410	T.V. Socket outlet modular type	each	1.00	59.20	59.20
Total cost of materials					59.20
Cartage @ 1 % of A1					0.59
LABOUR					
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04
TOTAL					84.24
OVERHEADS & PROFIT @ 15 %					12.64
TOTAL					96.88
Rate for Each					96.88
Say					97.00

1.24.8 Bell push**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1407	Modular bell push, ISI marked	each	1.00	73.60	73.60
Total cost of materials					73.60
Cartage @ 1 % of A1					0.74
LABOUR					
1001	Wireman	day	0.03	447.00	13.41
1007	Khallasi	day	0.03	368.00	11.04

TOTAL	98.79
OVERHEADS & PROFIT @ 15 %	14.82
TOTAL	113.61
Rate for Each	113.61
Say	114.00

- 1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.**

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1408	Stepped type Modular Fan regulator (2 module) each		1.00	216.00	216.00
Total cost of materials					216.00
Cartage @ 1 % of A1					2.16
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					250.76
OVERHEADS & PROFIT @ 15 %					37.61
TOTAL					288.37
Rate for Each					288.37
Say					288.00

- 1.26 Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.**

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1411	Modular blanking plate	each	1.00	12.80	12.80
Total cost of materials					12.80
Cartage @ 1 % of A1					0.13
LABOUR					
1001	Wireman	day	0.01	447.00	4.47
1007	Khallasi	day	0.01	368.00	3.68
TOTAL					21.08
OVERHEADS & PROFIT @ 15 %					3.16
TOTAL					24.24
Rate for Each					24.24
Say					24.00

- 1.27 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.**

1.27.1 1 or 2 Module (75mmX75mm)**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1300	Modular GI box for 2 module	each	1.00	28.00	28.00
1421	Modular base & cover plate for 2 module	each	1.00	39.60	39.60
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					72.66
Cartage @ 1 % of A1					0.73
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1010	Mason, Grade 2	day	0.06	407.00	24.42
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					152.49
OVERHEADS & PROFIT @ 15 %					22.87
TOTAL					175.36
Rate for Each					175.36
Say					175.00

1.27.2 3 Module (100mmX75mm)**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1301	Modular GI box for 3 module	each	1.00	29.60	29.60
1422	Modular base & cover plate for 3 module	each	1.00	46.40	46.40
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					81.06
Cartage @ 1 % of A1					0.81
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1010	Mason, Grade 2	day	0.06	407.00	24.42
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					160.97
OVERHEADS & PROFIT @ 15 %					24.15
TOTAL					185.12
Rate for Each					185.12
Say					185.00

1.27.3 4 Module (125mmX75mm)**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1302	Modular GI box for 4 module	each	1.00	38.40	38.40
1423	Modular base & cover plate for 4 module	each	1.00	54.80	54.80
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					98.26
Cartage @ 1 % of A1					0.98
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1010	Mason, Grade 2	day	0.06	407.00	24.42
1007	Khallasasi	day	0.10	368.00	36.80
TOTAL					178.34
OVERHEADS & PROFIT @ 15 %					26.75
TOTAL					205.09
Rate for Each					205.09
Say					205.00

1.27.4 6 Module (200mmX75mm)**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1303	Modular GI box for 6 module	each	1.00	62.00	62.00
1424	Modular base & cover plate for 6 module	each	1.00	76.40	76.40
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					143.46
Cartage @ 1 % of A1					1.43
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1010	Mason, Grade 2	day	0.06	407.00	24.42
1007	Khallasasi	day	0.10	368.00	36.80
TOTAL					223.99
OVERHEADS & PROFIT @ 15 %					33.60
TOTAL					257.59
Rate for Each					257.59
Say					258.00

1.27.5 8 Module (125mmX125mm)**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1304	Modular GI box for 8 module	each	1.00	74.00	74.00
1425	Modular base & cover plate for 8 module	each	1.00	97.60	97.60
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					177.22
Cartage @ 1 % of A1					1.77
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1010	Mason, Grade 2	day	0.06	407.00	24.42
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					258.09
OVERHEADS & PROFIT @ 15 %					38.71
TOTAL					296.80
Rate for Each					296.80
Say					297.00

1.27.6 12 Module (200mmX150mm)**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1305	Modular GI box for 12 module	each	1.00	102.00	102.00
1426	Modular base & cover plate for 12 module	each	1.00	110.40	110.40
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					218.02
Cartage @ 1 % of A1					2.18
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1010	Mason, Grade 2	day	0.06	407.00	24.42
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					299.30
OVERHEADS & PROFIT @ 15 %					44.90
TOTAL					344.20
Rate for Each					344.20
Say					344.00

1.28 Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.

1.28.1 1 or 2 Module

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1420	Modular base & cover plate for 1 module	each	1.00	38.80	38.80
Total cost of materials					38.80
Cartage @ 1 % of A1					0.39
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					71.79
OVERHEADS & PROFIT @ 15 %					10.77
TOTAL					82.56
Rate for Each					82.56
Say					83.00

1.28.2 3 Module**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1422	Modular base & cover plate for 3 module	each	1.00	46.40	46.40
Total cost of materials					46.40
Cartage @ 1 % of A1					0.46
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					79.46
OVERHEADS & PROFIT @ 15 %					11.92
TOTAL					91.38
Rate for Each					91.38
Say					91.00

1.28.3 4 Module**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1423	Modular base & cover plate for 4 module	each	1.00	54.80	54.80
Total cost of materials					54.80
Cartage @ 1 % of A1					0.55
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					87.95
OVERHEADS & PROFIT @ 15 %					13.19

CHAPTER-1 : WIRING

TOTAL	101.14
Rate for Each	101.14
Say	101.00

1.28.4 6 Module**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1424	Modular base & cover plate for 6 module	each	1.00	76.40	76.40
Total cost of materials					76.40
Cartage @ 1 % of A1					0.76
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					109.76
OVERHEADS & PROFIT @ 15 %					16.46
TOTAL					126.22
Rate for Each					126.22
Say					126.00

1.28.5 8 Module**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1425	Modular base & cover plate for 8 module	each	1.00	97.60	97.60
Total cost of materials					97.60
Cartage @ 1 % of A1					0.98
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					131.18
OVERHEADS & PROFIT @ 15 %					19.68
TOTAL					150.86
Rate for Each					150.86
Say					151.00

1.28.6 12 Module**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1426	Modular base & cover plate for 12 module	each	1.00	110.40	110.40
Total cost of materials					110.40
Cartage @ 1 % of A1					1.10

LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					144.10
OVERHEADS & PROFIT @ 15 %					21.62
TOTAL					165.72
Rate for Each					165.72
Say					166.00

1.29 Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 A socket outlet and 5/6 A piano type switch, connections, painting etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1308	150 mm X 75 mm X 60 mm deep metal box	each	1.00	32.55	32.55
1322	3 mm thick phenolic laminated sheet	sq.cm	136.00	0.10	13.60
1434	3 pin 5/6 A socket outlet, piano type ISI marked	each	1.00	20.26	20.26
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	13.30	13.30
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					87.05
Cartage @ 1 % of A1					0.87
LABOUR					
1001	Wireman	day	0.07	447.00	31.29
1010	Mason, Grade 2	day	0.04	407.00	16.28
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.11	368.00	40.48
TOTAL					178.01
OVERHEADS & PROFIT @ 15 %					26.70
TOTAL					204.71
Rate for Each					204.71
Say					205.00

1.30 Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1310	180 mm X 100 mm X 60 mm deep metal box	each	1.00	39.31	39.31
1322	3 mm thick phenolic laminated sheet	sq.cm	209.00	0.10	20.90
1435	6 pin 15/16 & 5/6 A socket outlet, piano type ISI marked	each	1.00	50.00	50.00
1433	S.P. 15/16 A, one way switch, piano type ISI marked	each	1.00	40.00	40.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.40	1.60
2920	Washers	each	4.00	0.17	0.68
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					157.55
Cartage @ 1 % of A1					1.58
LABOUR					
1001	Wireman	day	0.07	447.00	31.29
1010	Mason, Grade 2	day	0.04	407.00	16.28
1006	Painter	day	0.005	407.00	2.04
1007	Khallasi	day	0.11	368.00	40.48
TOTAL					249.22
OVERHEADS & PROFIT @ 15 %					37.38
TOTAL					286.60
Rate for Each					286.60
Say					287.00

1.31 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1301	Modular GI box for 3 module	each	1.00	29.60	29.60
1405	3 pin 5/6 A modular socket outlet, ISI marked	each	1.00	53.60	53.60
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	48.00	48.00
1422	Modular base & cover plate for 3 module	each	1.00	46.40	46.40
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					182.66
Cartage @ 1 % of A1					1.83
LABOUR					

1001	Wireman	day	0.07	447.00	31.29
1010	Mason, Grade 2	day	0.04	407.00	16.28
1007	Khallasi	day	0.11	368.00	40.48
TOTAL					272.54
OVERHEADS & PROFIT @ 15 %					40.88
TOTAL					313.42
Rate for Each					313.42
Say					313.00

1.32 Supplying and fixing suitable size GI box with modular plate and cover in Front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connection etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1301	Modular GI box for 3 module	each	1.00	29.60	29.60
1406	6 pin 15/16 A modular socket outlet, ISI marked	each	1.00	107.60	107.60
1404	S.P. 15/16 A, one way modular switch, ISI marked	each	1.00	73.60	73.60
1422	Modular base & cover plate for 3 module	each	1.00	46.40	46.40
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					262.26
Cartage @ 1 % of A1					2.62
LABOUR					
1001	Wireman	day	0.07	447.00	31.29
1010	Mason, Grade 2	day	0.04	407.00	16.28
1007	Khallasi	day	0.11	368.00	40.48
TOTAL					352.93
OVERHEADS & PROFIT @ 15 %					52.94
TOTAL					405.87
Rate for Each					405.87
Say					406.00

1.33 Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connection etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1401	Ceiling rose, 3 pin, 5 A ISI marked	each	1.00	14.40	14.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.40	0.80
Total cost of materials					15.20
Cartage @ 1 % of A1					0.15
LABOUR					

CHAPTER-1 : WIRING

1001	Wireman	day	0.03	447.00	13.41
1007	Khallasasi	day	0.03	368.00	11.04
	TOTAL				39.80
	OVERHEADS & PROFIT @ 15 %				5.97
	TOTAL				45.77
	Rate for Each				45.77
	Say				46.00

**1.34 Supplying and fixing brass batten/ angle holder including connection etc. as required.
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1442	Brass batten/ angle holder	each	1.00	31.00	31.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.40	1.20
	Total cost of materials				32.20
	Cartage @ 1 % of A1				0.32
	LABOUR				
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasasi	day	0.04	368.00	14.72
	TOTAL				65.12
	OVERHEADS & PROFIT @ 15 %				9.77
	TOTAL				74.89
	Rate for Each				74.89
	Say				75.00

1.35 Installation, testing and commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.40	1.20
	Total cost of materials				1.20
	Cartage @ 1 % of A1				0.01
	LABOUR				
1001	Wireman	day	0.06	447.00	26.82
1007	Khallasasi	day	0.06	368.00	22.08
	TOTAL				50.11
	OVERHEADS & PROFIT @ 15 %				7.52
	TOTAL				57.63
	Rate for Each				57.63
	Say				58.00

- 1.36 Supplying and fixing stiff pendent with 300 mm long, 20 mm dia X 1.6 mm thick steel conduit, aluminium cast back plate and brass holder complete, including wiring the down rod with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and painting etc. as required.**

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1201	20 mm dia. ISI marked, steel conduit	meter	0.32	60.01	19.20
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 0.75 + 0.04 (Wastage @5%) = 0.79m	meter	0.79	11.10	8.77
2908	Brass nipple	each	1.00	6.00	6.00
2928	Back plate	each	1.00	6.00	6.00
1443	Brass bracket holder 16 mm	each	1.00	38.00	38.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.40	1.20
2944	Paint	litre	0.01	142.00	1.42
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
Total cost of materials					81.15
Cartage @ 1 % of A1					0.81
LABOUR					
1001	Wireman	day	0.06	447.00	26.82
1010	Mason, Grade 2	day	0.04	407.00	16.28
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					147.14
OVERHEADS & PROFIT @ 15 %					22.07
TOTAL					169.21
Rate for Each					169.21
Say					169.00

1.37 (DELETED)

- 1.38 Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.**

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1444	Call bell/ buzzer, single phase	each	1.00	35.38	35.38
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.40	0.80
Total cost of materials					36.18
Cartage @ 1 % of A1					0.36
LABOUR					
1001	Wireman	day	0.02	447.00	8.94
1007	Khallasi	day	0.02	368.00	7.36
TOTAL					52.84

CHAPTER-1 : WIRING

OVERHEADS & PROFIT @ 15 %	7.93
TOTAL	60.77
Rate for Each	60.77
Say	61.00

- 1.39 Providing and fixing plain 16/0.20mm (0.50sq.mm) twin flat flexible, FRLS PVC insulated, copper conductor cable, in PVC sleeve of suitable size on the floor/ wall, or side of the table/ door etc. as required.**

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1108	16/0.20 mm (0.5 sq.mm) twin core FRLS PVC sheathed, flat flexible copper cable	meter	53.03	11.52	610.91
Total cost of materials					610.91
Cartage @ 1 % of A1					6.11
LABOUR					
1001	Wireman	day	0.40	447.00	178.80
1007	Khallasi	day	0.40	368.00	147.20
TOTAL					943.02
OVERHEADS & PROFIT @ 15 %					141.45
TOTAL					1084.47
Rate per meter					21.69
Say					22.00

- 1.40 Providing and fixing plain 16/0.20mm (0.50sq.mm) twin circular flexible FRLS PVC insulated, PVC sheathed copper conductor cable direct on the wall with PVC clips etc. as required.**

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1109	16/0.20 mm (0.5 sq.mm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	meter	53.03	11.52	610.91
2858	PVC clip for fixing cable	each	100.00	0.10	10.00
Total cost of materials					620.91
Cartage @ 1 % of A1					6.21
LABOUR					
1001	Wireman	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					830.87
OVERHEADS & PROFIT @ 15 %					124.63
TOTAL					955.50
Rate per meter					19.11
Say					19.00

- 1.41 Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.**

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 0.30 + 0.02 (Wastage @5%) = 0.32m	meter	0.32	11.10	3.55
2852	Iron screws, 35 mm X 6 mm	each	2.00	0.95	1.90
2857	PVC fastener 40mm long	each	1.00	0.28	0.28
Total cost of materials					5.73
Cartage @ 1 % of A1					0.06
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasasi	day	0.10	368.00	36.80
TOTAL					87.29
OVERHEADS & PROFIT @ 15 %					13.09
TOTAL					100.38
Rate for Each					100.38
Say					100.00

- 1.42 Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc., including supplying and fixing ball and socket arrangement, 2 Nos. down rods of 20 mm dia X 1.6 mm thick steel conduit upto 30 cm length, painting and wiring the down rods and connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.**

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 0.90 + 0.05 (Wastage @5%) = 0.95m	meter	0.95	11.10	10.55
1201	20 mm dia. ISI marked, steel conduit = 0.60 + 0.03 (Wastage @5%) = 0.63m	meter	0.63	60.01	37.81
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	6.00	0.40	2.40
2927	Ball and socket	each	2.00	14.00	28.00
2929	Check nut 20mm	each	4.00	3.00	12.00
2859	Rubber/ PVC bushes	each	1.00	0.50	0.50
2944	Paint	litre	0.02	142.00	2.84
2857	PVC fastener 40mm long	each	6.00	0.28	1.68
Total cost of materials					95.78

CHAPTER-1 : WIRING

	Cartage @ 1 % of A1				0.96
	LABOUR				
1001	Wireman	day	0.130	447.00	58.11
1006	Painter	day	0.03	407.00	12.21
1007	Khallasi	day	0.130	368.00	47.84
	TOTAL				214.90
	OVERHEADS & PROFIT @ 15 %				32.23
	TOTAL				247.13
	Rate for Each				247.13
	Say				247.00

1.43 Providing and fixing extra conduit down rod of 20 mm dia, 2 X 10 cm length, wiring with 2 X 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1201	20 mm dia. ISI marked, steel conduit	meter	0.20	60.01	12.00
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	0.20	11.10	2.22
2944	Paint	litre	0.01	142.00	1.42
	Total cost of materials				15.64
	Cartage @ 1 % of A1				0.16
	LABOUR				
1001	Wireman	day	0.010	447.00	4.47
1006	Painter	day	0.010	407.00	4.07
1007	Khallasi	day	0.010	368.00	3.68
	TOTAL				28.02
	OVERHEADS & PROFIT @ 15 %				4.20
	TOTAL				32.22
	Rate for Each				32.22
	Say				32.00

1.44 Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.

COST FOR 10 NOS OF FANS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	8.40	11.10	93.24
	= 8.0 + 0.40 (Wastage @5%) = 8.40m				
	Total cost of materials				93.24

	Cartage @ 1 % of A1				0.93
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				909.17
	OVERHEADS & PROFIT @ 15 %				136.38
	TOTAL				1045.55
	Rate per Fan				104.56
	Say				105.00

1.45 Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.

COST FOR 10 NOS OF FANS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 8.0 + 0.40 (Wastage @5%) = 8.40m	meter	8.40	11.10	93.24
1322	3 mm thick phenolic laminated sheet	sq.cm	2312.00	0.10	231.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	16.00	0.40	6.40
2920	Washers	each	16.00	0.17	2.72
	Total cost of materials				333.56
	Cartage @ 1 % of A1				3.34
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				1151.90
	OVERHEADS & PROFIT @ 15 %				172.78
	TOTAL				1324.68
	Rate per Fan				132.47
	Say				132.00

1.46 DELETED

1.47 Supplying and fixing extra down rod of 10 cm length G.I. pipe ,15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2827	15 mm dia. G.I. pipe (heavy class) = 0.10 + 0.005 (Wastage @ 5%) = 0.105m	meter	0.105	87.46	9.18
2944	Paint	litre	0.01	142.00	1.42

CHAPTER-1 : WIRING

	Total cost of materials			10.60
	Cartage @ 1 % of A1			0.11
	LABOUR			
1001	Wireman	day	0.007 447.00	3.13
1006	Painter	day	0.007 407.00	2.85
1007	Khallasi	day	0.007 368.00	2.58
	TOTAL			19.27
	OVERHEADS & PROFIT @ 15 %			2.89
	TOTAL			22.16
	Rate for Each			22.16
	Say			22.00

1.48 Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2828	20 mm dia. G.I. pipe (heavy class) = 0.10 + 0.005 (Wastage @ 5%) = 0.105m	meter	0.105	112.75	11.84
2944	Paint	liter	0.01	142.00	1.42
	Total cost of materials				13.26
	Cartage @ 1 % of A1				0.13
	LABOUR				
1001	Wireman	day	0.007	447.00	3.13
1006	Painter	day	0.007	407.00	2.85
1007	Khallasi	day	0.007	368.00	2.58
	TOTAL				21.95
	OVERHEADS & PROFIT @ 15 %				3.29
	TOTAL				25.24
	Rate for Each				25.24
	Say				25.00

1.49 Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.

COST FOR 100 FANS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2944	Paint	litre	1.00	142.00	142.00
	Total cost of materials				142.00
	Cartage @ 1 % of A1				1.42
	LABOUR				
1006	Painter	day	3.00	407.00	1221.00
1007	Khallasi	day	3.00	368.00	1104.00

TOTAL	2468.42
OVERHEADS & PROFIT @ 15 %	370.26
Cost for 100 Fans	2838.68
Rate for Each	28.39
Say	28.00

1.50 Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.

1.50.1 Upto 450 mm sweep

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
1108	16/0.20 mm (0.5 sq.mm) twin core FRLS PVC sheathed, flat flexible copper cable	meter	1.00	11.52	11.52
Total cost of materials					31.52
Cartage @ 1 % of A1					0.32
LABOUR					
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					194.84
OVERHEADS & PROFIT @ 15 %					29.23
TOTAL					224.07
Rate for Each					224.07
Say					224.00

1.50.2 510 mm sweep

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
1108	16/0.20 mm (0.5 sq.mm) twin core FRLS PVC sheathed, flat flexible copper cable	meter	1.00	11.52	11.52
Total cost of materials					31.52
Cartage @ 1 % of A1					0.32
LABOUR					
1001	Wireman	day	0.30	447.00	134.10
1007	Khallasi	day	0.30	368.00	110.40
TOTAL					276.34
OVERHEADS & PROFIT @ 15 %					41.45
TOTAL					317.79
Rate for Each					317.79
Say					318.00

1.51 Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2853	Iron screws, 40 mm X 6 mm	each	4.00	0.95	3.80
2857	PVC fastener 40mm long	each	4.00	0.28	1.12
Total cost of materials					4.92
Cartage @ 1 % of A1					0.05
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					86.47
OVERHEADS & PROFIT @ 15 %					12.97
TOTAL					99.44
Rate for Each					99.44
Say					99.00

1.52 Painting of ceiling fan in installed position with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent etc. as required.**COST FOR 50 FANS**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2944	Paint	litre	2.70	142.00	383.40
2939	Cleaning materials like soap/ detergent	kg	1.00	43.00	43.00
2938	Cotton waste, cleaning cloth etc.	kg	2.00	38.00	76.00
Total cost of materials					502.40
Cartage @ 1 % of A1					5.02
LABOUR					
1006	Painter	day	3.00	407.00	1221.00
1007	Khallasi	day	3.00	368.00	1104.00
1082	Hire charges for compressor and spray gun	day	3.00	350.00	1050.00
TOTAL					3882.42
OVERHEADS & PROFIT @ 15 %					582.36
Cost for 100 Fans					4464.78
Rate for Each					89.30
Say					89.00

1.53 Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.

1.53.1 1 run of Cable

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1451	4 pair UTP CAT 6	meter	51.50	20.77	1069.66
Total cost of materials					1069.66
Cartage @ 1 % of A1					10.70
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasasi	day	0.50	368.00	184.00
TOTAL					1487.86
OVERHEADS & PROFIT @ 15 %					223.18
TOTAL					1711.04
Rate per meter					34.22
Say					34.00

1.53.2 2 run of Cable

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1451	4 pair UTP CAT 6	meter	103.00	20.77	2139.31
Total cost of materials					2139.31
Cartage @ 1 % of A1					21.39
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasasi	day	0.50	368.00	184.00
TOTAL					2568.20
OVERHEADS & PROFIT @ 15 %					385.23
TOTAL					2953.43
Rate per meter					59.07
Say					59.00

1.53.3 3 run of Cable

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1451	4 pair UTP CAT 6	meter	154.50	20.77	3208.97
Total cost of materials					3208.97
Cartage @ 1 % of A1					32.09

CHAPTER-1 : WIRING

LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					3648.56
OVERHEADS & PROFIT @ 15 %					547.28
TOTAL					4195.84
Rate per meter					83.92
Say					84.00

1.54 Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.

1.54.1 Group A

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 1 point					
MATERIAL					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable 3x3=9-1x3=6+0.30 (wastage @ 5%)= 6.3m	meter	6.30	11.10	69.93
1201	20 mm dia. ISI marked, steel conduit = 2.5-1=1.5+0.075 (wastage @5%)= 1.575 m	meter	1.58	60.01	94.82
1218	20 mm iron staples/ saddles/ screws	each	2.00	1.60	3.20
Total cost of materials					167.95
Cartage @ 1 %					1.68
LABOUR					
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.05	407.00	20.35
1006	Painter	day	0.02	407.00	8.14
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					361.12
Add 15 % Over Head & Contractor Profit					54.17
TOTAL					415.28
Rate per Point					415.28
Say					415.00

1.54.2 Group B

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 1 point					
MATERIAL					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	8.80	11.10	97.68

	= $3 \times 4 = 12 - 1.2 \times 3 = 8.4 + 0.4$ (wastage @ 5%) = 8.8 m				
1201	20 mm dia. ISI marked, steel conduit = $3.5 - 1.2 = 2.3 + 0.12$ (wastage @ 5%) = 2.42 m	meter	2.42	60.01	145.22
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.60	6.40
	Total cost of materials				249.30
	Cartage @ 1 %				2.49
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.05	407.00	20.35
1006	Painter	day	0.02	407.00	8.14
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				443.29
	Add 15 % Over Head & Contractor Profit				66.49
	TOTAL				509.78
	Rate per Point				509.78
	Say				510.00

1.54.3 Group C

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for 1 point				
	MATERIAL				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $3 \times 5 = 15 - 1.5 \times 3 = 10.5 + 0.52$ (wastage @ 5%) = 11.02 m	meter	11.02	11.10	122.32
1201	20 mm dia. ISI marked, steel conduit = $4.5 - 1.5 = 3 + 0.15$ (wastage @ 5%) = 3.15 m	meter	3.15	60.01	189.03
1211	20 mm sockets	each	1.00	6.93	6.93
1218	20 mm iron staples/ saddles/ screws	each	6.00	1.60	9.60
	Total cost of materials				327.88
	Cartage @ 1 %				3.28
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.05	407.00	20.35
1006	Painter	day	0.02	407.00	8.14
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				522.65
	Add 15 % Over Head & Contractor Profit				78.40
	TOTAL				601.05
	Rate per Point				601.05
	Say				601.00

CHAPTER-1 : WIRING

1.55 Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.

1.55.1 Group A

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for 1 point				
	MATERIAL				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable 3x3=9-1x3=6+0.30 (wastage @ 5%)= 6.3 m	meter	6.30	11.10	69.93
1224	20 mm dia. ISI marked, PVC conduit = 2.5-1=1.5+0.075 (wastage @5%)= 1.575 m	meter	1.58	11.81	18.66
1218	20 mm iron staples/ saddles/ screws	each	2.00	1.60	3.20
	Total cost of materials				91.79
	Cartage @ 1 %				0.92
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallas	day	0.20	368.00	73.60
	TOTAL				276.06
	Add 15 % Over Head & Contractor Profit				41.41
	TOTAL				317.47
	Rate per Point				317.47
	Say				317.00

1.55.2 Group B

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for 1 point				
	MATERIAL				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 3x4=12-1.2x3=8.4+0.4 (wastage @ 5%) = 8.8 m	meter	8.80	11.10	97.68
1224	20 mm dia. ISI marked, PVC conduit =3.5-1.2= 2.3 + 0.12 (wastage @5%) = 2.42 m	meter	2.42	11.81	28.58
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.60	6.40
	Total cost of materials				132.66
	Cartage @ 1 %				1.33
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.05	407.00	20.35

1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				317.34
	Add 15 % Over Head & Contractor Profit				47.60
	TOTAL				364.94
	Rate per Point				364.94
	Say				365.00

1.55.3 Group C

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for 1 point				
	MATERIAL				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 3x5=15-1.5x3= 10.5 + 0.52 (wastage @ 5%) = 11.02 m	meter	11.02	11.10	122.32
1224	20 mm dia. ISI marked, PVC conduit = 4.5-1.5= 3 + 0.15 (wastage @5%) = 3.15 m	meter	3.15	11.81	37.20
1211	20 mm sockets	each	1.00	6.93	6.93
1218	20 mm iron staples/ saddles/ screws	each	6.00	1.60	9.60
	Total cost of materials				176.05
	Cartage @ 1 %				1.76
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				361.16
	Add 15 % Over Head & Contractor Profit				54.17
	TOTAL				415.34
	Rate per Point				415.34
	Say				415.00

1.56 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlets and 2 Nos. 5/6 A modular switches, connection etc. as required. (For light plugs to be used in non residential buildings).

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for one each				
	MATERIAL				
1424	Modular base & cover plate for 6 module	each	1.00	76.40	76.40
1405	3 pin 5/6 A modular socket outlet, ISI marked	each	2.00	53.60	107.20
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	2.00	48.00	96.00
1303	Modular GI box for 6 module	each	1.00	62.00	62.00

CHAPTER-1 : WIRING

2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				346.66
	Cartage @ 1 %				3.47
	LABOUR				
1001	Wireman	day	0.07	447.00	31.29
1010	Mason, Grade 2	day	0.04	407.00	16.28
1007	Khallasi	day	0.11	368.00	40.48
	TOTAL				438.18
	Add 15 % Over Head & Contractor Profit				65.73
	Rate per Point				503.90
	Say				504.00

1.57 Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for one each				
	MATERIAL				
1301	Modular GI box for 3 module	each	1.00	29.60	29.60
1412	6 pin 25 A modular type socket ISI Marked	Nos.	1.00	167.00	167.00
1705	25 A modular SPMCB	Nos.	1.00	123.50	123.50
1422	Modular base & cover plate for 3 module	each	1.00	46.40	46.40
2857	PVC fastener 40mm long	each	2.00	0.28	0.56
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				371.56
	Cartage @ 1 %				3.72
	LABOUR				
1001	Wireman	day	0.07	447.00	31.29
1010	Mason, Grade 2	day	0.04	407.00	16.28
1007	Khallasi	day	0.11	368.00	40.48
	TOTAL				463.33
	Add 15 % Over Head & Contractor Profit				69.50
	TOTAL				532.82
	Rate for Each				532.82
	Say				533.00

1.58 Supplying and fixing PVC batten/ angle holder including connection etc. as required.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for one each				
	MATERIAL				
1452	PVC Batten/ Angle Holder	each	1.00	20.00	20.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.40	1.20
	Total cost of materials				21.20

	Cartage @ 1 %				0.21
	LABOUR				
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
	TOTAL				54.01
	Add 15 % Over Head & Contractor Profit				8.10
	TOTAL				62.11
	Rate for Each				62.11
	Say				62.00

1.59 Dismantling of ceiling fan and painting the same with with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent and replacing the damaged rubber reel, nuts and bolts with washers and safety pins reinstalling the same as required.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for 50 Fans				
	MATERIAL				
2944	Paint	litre	2.84	142.00	402.57
	= 2.7 + 0.135 (wastage @5%) = 2.835				
2939	Cleaning materials like soap/ detergent	kg	1.00	43.00	43.00
2938	Cotton waste, cleaning cloth etc.	kg	2.00	38.00	76.00
2930	Rubber reel, nut & bolts with washers and safety pin	set	10.00	50.00	500.00
	Total cost of materials				1021.57
	Cartage @ 1 %				10.22
	LABOUR				
1001	Wireman	day	3.00	447.00	1341.00
1006	Painter	day	3.00	407.00	1221.00
1007	Khallasi	day	6.00	368.00	2208.00
	TOTAL				5801.79
	Add 15 % Over Head & Contractor Profit				870.27
	Cost for 50 Fans				6672.05
	Rate for Each				133.44
	Say				133.00

CHAPTER 2 – MCCB, MCB & DB'S

2.1 Providing and fixing following capacity TP&N disconnecter fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.

2.1.1 32 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1601	32 A. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	1184.00	1184.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	11.00	11.00
Total cost of materials					1205.00
Cartage @ 1 % of A1					12.05
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1298.55
OVERHEADS & PROFIT @ 15 %					194.78
TOTAL					1493.33
Rate for Each					1493.33
Say					1493.00

2.1.2 63 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1602	63 A. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	1670.63	1670.63
2863	38mm X 10mm bolts & nuts	each	4.00	7.00	28.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	11.00	11.00
Total cost of materials					1711.63
Cartage @ 1 % of A1					17.12
LABOUR					
1001	Wireman	day	0.130	447.00	58.11
1007	Khallasi	day	0.130	368.00	47.84
TOTAL					1834.70
OVERHEADS & PROFIT @ 15 %					275.20
TOTAL					2109.90
Rate for Each					2109.90
Say					2110.00

2.1.3 100 A TP&N**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1603	100 A. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	3621.38	3621.38
2863	38mm X 10mm bolts & nuts	each	4.00	7.00	28.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	11.00	11.00
Total cost of materials					3662.38
Cartage @ 1 % of A1					36.62
LABOUR					
1001	Wireman	day	0.130	447.00	58.11
1007	Khallasi	day	0.130	368.00	47.84
TOTAL					3804.95
OVERHEADS & PROFIT @ 15 %					570.74
TOTAL					4375.69
Rate for Each					4375.69
Say					4376.00

2.1.4 125 A TP&N**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1604	125 A. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	4024.00	4024.00
2863	38mm X 10mm bolts & nuts	each	4.00	7.00	28.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	11.00	11.00
Total cost of materials					4065.00
Cartage @ 1 % of A1					40.65
LABOUR					
1001	Wireman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					4227.90
OVERHEADS & PROFIT @ 15 %					634.19
TOTAL					4862.09
Rate for Each					4862.09
Say					4862.00

2.1.5 160 A TP&N**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1605	160 A. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	4816.00	4816.00
2863	38mm X 10mm bolts & nuts	each	4.00	7.00	28.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	11.00	11.00
Total cost of materials					4857.00
Cartage @ 1 % of A1					48.57
LABOUR					
1001	Wireman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					5027.82
OVERHEADS & PROFIT @ 15 %					754.17
TOTAL					5781.99
Rate for Each					5781.99
Say					5782.00

2.1.6 200 A TP&N**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1606	200 A. TPN switch fuse unit with ISI marked HRC fuses	each	1.00	5520.00	5520.00
2863	38mm X 10mm bolts & nuts	each	4.00	7.00	28.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	11.00	11.00
Total cost of materials					5561.00
Cartage @ 1 % of A1					55.61
LABOUR					
1001	Wireman	day	0.170	447.00	75.99
1007	Khallasi	day	0.170	368.00	62.56
TOTAL					5755.16
OVERHEADS & PROFIT @ 15 %					863.27
TOTAL					6618.43
Rate for Each					6618.43
Say					6618.00

2.1.7 315 A TP&N**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1607	315 A. TPN switch fuse unit with ISI marked HRC fuses	each	1.00	8872.88	8872.88
2863	38mm X 10mm bolts & nuts	each	4.00	7.00	28.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	11.00	11.00
Total cost of materials					8913.88
Cartage @ 1 % of A1					89.14
LABOUR					
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					9166.02
OVERHEADS & PROFIT @ 15 %					1374.90
TOTAL					10540.92
Rate for Each					10540.92
Say					10541.00

2.1.8 400 A TP&N**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1608	400 A. TPN switch fuse unit with ISI marked HRC fuses	each	1.00	10854.00	10854.00
2863	38mm X 10mm bolts & nuts	each	4.00	7.00	28.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	11.00	11.00
Total cost of materials					10895.00
Cartage @ 1 % of A1					108.95
LABOUR					
1001	Wireman	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					11207.70
OVERHEADS & PROFIT @ 15 %					1681.16
TOTAL					12888.86
Rate for Each					12888.86
Say					12889.00

2.2 Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.

2.2.1 100 A, 16 kA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1610	3 pole MCCB, 100A, 16 kA	each	1.00	2656.00	2656.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					2666.00
Cartage @ 1 % of A1					26.66
LABOUR					
1001	Wireman	day	0.130	447.00	58.11
1007	Khallasi	day	0.130	368.00	47.84
TOTAL					2798.61
OVERHEADS & PROFIT @ 15 %					419.79
TOTAL					3218.40
Rate for Each					3218.40
Say					3218.00

2.2.2 125 A, 16 kA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1611	3 pole MCCB, 125A, 16 kA	each	1.00	2979.90	2979.90
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					2989.90
Cartage @ 1 % of A1					29.90
LABOUR					
1001	Wireman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					3142.05
OVERHEADS & PROFIT @ 15 %					471.31
TOTAL					3613.36
Rate for Each					3613.36
Say					3613.00

2.2.3 150 A, 16 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1612	3 pole MCCB, 150A, 16 kA	each	1.00	3395.70	3395.70
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					3405.70
Cartage @ 1 % of A1					34.06
LABOUR					
1001	Wireman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					3562.01
OVERHEADS & PROFIT @ 15 %					534.30
TOTAL					4096.31
Rate for Each					4096.31
Say					4096.00

2.2.4 200 A, 16 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1613	3 pole MCCB, 200A, 16KA	each	1.00	4617.90	4617.90
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					4627.90
Cartage @ 1 % of A1					46.28
LABOUR					
1001	Wireman	day	0.170	447.00	75.99
1007	Khallasi	day	0.170	368.00	62.56
TOTAL					4812.73
OVERHEADS & PROFIT @ 15 %					721.91
TOTAL					5534.64
Rate for Each					5534.64
Say					5535.00

2.2.5 200 A, 25 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1614	3 pole MCCB, 200A, 25 kA	each	1.00	6709.50	6709.50
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					6719.50

	Cartage @ 1 % of A1			67.20
	LABOUR			
1001	Wireman	day	0.170 447.00	75.99
1007	Khallasi	day	0.170 368.00	62.56
	TOTAL			6925.25
	OVERHEADS & PROFIT @ 15 %			1038.79
	TOTAL			7964.04
	Rate for Each			7964.04
	Say			7964.00

2.2.6 250 A, 25 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1615	3 pole MCCB, 250A, 25 kA	each	1.00	7934.85	7934.85
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				7944.85
	Cartage @ 1 % of A1				79.45
	LABOUR				
1001	Wireman	day	0.180	447.00	80.46
1007	Khallasi	day	0.180	368.00	66.24
	TOTAL				8171.00
	OVERHEADS & PROFIT @ 15 %				1225.65
	TOTAL				9396.65
	Rate for Each				9396.65
	Say				9397.00

2.2.7 250 A, 35 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1616	3 pole MCCB, 250A, 35 kA	each	1.00	8605.80	8605.80
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				8615.80
	Cartage @ 1 % of A1				86.16
	LABOUR				
1001	Wireman	day	0.180	447.00	80.46
1007	Khallasi	day	0.180	368.00	66.24
	TOTAL				8848.66
	OVERHEADS & PROFIT @ 15 %				1327.30
	TOTAL				10175.96
	Rate for Each				10175.96
	Say				10176.00

2.2.8 315 A, 35 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1617	3 pole MCCB, 315A, 35 kA	each	1.00	13321.35	13321.35
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					13331.35
Cartage @ 1 % of A1					133.31
LABOUR					
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					13627.66
OVERHEADS & PROFIT @ 15 %					2044.15
TOTAL					15671.81
Rate for Each					15671.81
Say					15672.00

2.2.9 400 A, 35 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1618	3 pole MCCB, 400A, 35 kA	each	1.00	13321.35	13321.35
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					13331.35
Cartage @ 1 % of A1					133.31
LABOUR					
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					13627.66
OVERHEADS & PROFIT @ 15 %					2044.15
TOTAL					15671.81
Rate for Each					15671.81
Say					15672.00

2.2.10 500 A, 35 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1619	3 pole MCCB, 500A, 35 kA	each	1.00	15425.55	15425.55
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					15435.55

	Cartage @ 1 % of A1				154.36
	LABOUR				
1001	Wireman	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				15793.66
	OVERHEADS & PROFIT @ 15 %				2369.05
	TOTAL				18162.71
	Rate for Each				18162.71
	Say				18163.00

2.2.11 630 A, 50 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1620	3 pole MCCB, 630A, 50 kA	each	1.00	17208.45	17208.45
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				17218.45
	Cartage @ 1 % of A1				172.18
	LABOUR				
1001	Wireman	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				17594.38
	OVERHEADS & PROFIT @ 15 %				2639.16
	TOTAL				20233.54
	Rate for Each				20233.54
	Say				20234.00

2.2.12 800 A, 50 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1621	3 pole MCCB, 800A, 50 kA	each	1.00	21035.70	21035.70
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				21045.70
	Cartage @ 1 % of A1				210.46
	LABOUR				
1001	Wireman	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				21459.91
	OVERHEADS & PROFIT @ 15 %				3218.99
	TOTAL				24678.90
	Rate for Each				24678.90
	Say				24679.00

2.2.13 100 A, 30 kA 4Pole**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1622	4 pole MCCB, 100A, 30KA	each	1.00	4500.00	4500.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					4510.00
Cartage @ 1 % of A1					45.10
LABOUR					
1001	Wireman	day	0.130	447.00	58.11
1007	Khallasi	day	0.130	368.00	47.84
TOTAL					4661.05
OVERHEADS & PROFIT @ 15 %					699.16
TOTAL					5360.21
Rate for Each					5360.21
Say					5360.00

2.2.14 125 A, 36 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1623	4 pole MCCB, 125A, 36 kA	each	1.00	4560.00	4560.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					4570.00
Cartage @ 1 % of A1					45.70
LABOUR					
1001	Wireman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					4737.95
OVERHEADS & PROFIT @ 15 %					710.69
TOTAL					5448.64
Rate for Each					5448.64
Say					5449.00

2.2.15 200 A, 36 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1624	4 pole MCCB, 200A, 36 kA	each	1.00	11176.00	11176.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					11186.00

	Cartage @ 1 % of A1				111.86
	LABOUR				
1001	Wireman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
	TOTAL				11420.11
	OVERHEADS & PROFIT @ 15 %				1713.02
	TOTAL				13133.13
	Rate for Each				13133.13
	Say				13133.00

2.2.16 250 A, 36 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1625	4 pole MCCB, 250A, 36 kA	each	1.00	12474.00	12474.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				12484.00
	Cartage @ 1 % of A1				124.84
	LABOUR				
1001	Wireman	day	0.170	447.00	75.99
1007	Khallasi	day	0.170	368.00	62.56
	TOTAL				12747.39
	OVERHEADS & PROFIT @ 15 %				1912.11
	TOTAL				14659.50
	Rate for Each				14659.50
	Say				14660.00

2.2.17 250 A, 50 kA**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1626	4 pole MCCB, 250A, 50 kA	each	1.00	11642.40	11642.40
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				11652.40
	Cartage @ 1 % of A1				116.52
	LABOUR				
1001	Wireman	day	0.170	447.00	75.99
1007	Khallasi	day	0.170	368.00	62.56
	TOTAL				11907.47
	OVERHEADS & PROFIT @ 15 %				1786.12
	TOTAL				13693.59
	Rate for Each				13693.59
	Say				13694.00

2.2.18 400 A, 50 kA,4Pole**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1627	4 pole MCCB, 400A, 50 kA	each	1.00	16279.20	16279.20
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					16289.20
Cartage @ 1 % of A1					162.89
LABOUR					
1001	Wireman	day	0.180	447.00	80.46
1007	Khallasi	day	0.180	368.00	66.24
TOTAL					16598.79
OVERHEADS & PROFIT @ 15 %					2489.82
TOTAL					19088.61
Rate for Each					19088.61
Say					19089.00

2.2.19 630 A, 50 kA,FPMCCB**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1628	4 pole MCCB, 630A, 50 kA	each	1.00	20257.65	20257.65
2861	25mm X 3mm bolts & nuts	each	4.00	2.00	8.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					20267.65
Cartage @ 1 % of A1					202.68
LABOUR					
1001	Wireman	day	0.180	447.00	80.46
1007	Khallasi	day	0.180	368.00	66.24
TOTAL					20617.03
OVERHEADS & PROFIT @ 15 %					3092.55
TOTAL					23709.58
Rate for Each					23709.58
Say					23710.00

2.3 Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)

2.3.1 6 way, Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1738	2+2 way, SPN, double door, MCB DB	each	1.00	630.00	630.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					654.50
Cartage @ 1 % of A1					6.55
LABOUR					
1001	Wireman	day	0.08	447.00	35.76
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallas	day	0.20	368.00	73.60
TOTAL					819.25
OVERHEADS & PROFIT @ 15 %					122.89
TOTAL					942.14
Rate for Each					942.14
Say					942.00

2.3.2 8 way, Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1739	2+4 way, SPN, double door, MCB DB	each	1.00	732.00	732.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					756.50
Cartage @ 1 % of A1					7.57
LABOUR					
1001	Wireman	day	0.08	447.00	35.76
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallas	day	0.20	368.00	73.60
TOTAL					922.27
OVERHEADS & PROFIT @ 15 %					138.34
TOTAL					1060.61
Rate for Each					1060.61
Say					1061.00

2.3.3 12 way, Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1740	2+6 way, SPN, double door, MCB DB	each	1.00	810.00	810.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00

2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				834.50
	Cartage @ 1 % of A1				8.35
	LABOUR				
1001	Wireman	day	0.08	447.00	35.76
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				1001.05
	OVERHEADS & PROFIT @ 15 %				150.16
	TOTAL				1151.21
	Rate for Each				1151.21
	Say				1151.00

2.3.4 16 way, Double door**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1741	2+10 way, SPN, double door, MCB DB	each	1.00	993.00	993.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				1017.50
	Cartage @ 1 % of A1				10.18
	LABOUR				
1001	Wireman	day	0.08	447.00	35.76
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				1185.88
	OVERHEADS & PROFIT @ 15 %				177.88
	TOTAL				1363.76
	Rate for Each				1363.76
	Say				1364.00

2.4 Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)**2.4.1 4 way (4 + 12), Double door****Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1754	4 way (4+12), TPN, MCB DB, double door, horizontal type	each	1.00	1679.40	1679.40
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50

	Total cost of materials				1703.90
	Cartage @ 1 % of A1				17.04
	LABOUR				
1001	Wireman	day	0.12	447.00	53.64
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallasi	day	0.24	368.00	88.32
	TOTAL				1911.74
	OVERHEADS & PROFIT @ 15 %				286.76
	TOTAL				2198.50
	Rate for Each				2198.50
	Say				2198.00

2.4.2 6 way (4 + 18), Double door**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1755	6 way (4+18), TPN, MCB DB, double door, horizontal type	each	1.00	2076.00	2076.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				2100.50
	Cartage @ 1 % of A1				21.01
	LABOUR				
1001	Wireman	day	0.12	447.00	53.64
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallasi	day	0.24	368.00	88.32
	TOTAL				2312.31
	OVERHEADS & PROFIT @ 15 %				346.85
	TOTAL				2659.16
	Rate for Each				2659.16
	Say				2659.00

2.4.3 8 way (4 + 24), Double door**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1756	8 way (4+24), TPN, MCB DB, double door, horizontal type	each	1.00	2517.00	2517.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				2541.50
	Cartage @ 1 % of A1				25.42
	LABOUR				
1001	Wireman	day	0.12	447.00	53.64

1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallasi	day	0.24	368.00	88.32
TOTAL					2757.72
OVERHEADS & PROFIT @ 15 %					413.66
TOTAL					3171.38
Rate for Each					3171.38
Say					3171.00

2.5 Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)

2.5.1 4 way (4 + 12), Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1760	4 way (4+12), TPN, vertical type, MCB DB, double door	each	1.00	3662.51	3662.51
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					3687.01
Cartage @ 1 % of A1					36.87
LABOUR					
1001	Wireman	day	0.12	447.00	53.64
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallasi	day	0.24	368.00	88.32
TOTAL					3914.68
OVERHEADS & PROFIT @ 15 %					587.20
TOTAL					4501.88
Rate for Each					4501.88
Say					4502.00

2.5.2 8 way (4 + 24), Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1761	8 way (4+24), TPN, vertical type, MCB DB, double door	each	1.00	4663.02	4663.02
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					4687.52
Cartage @ 1 % of A1					46.88
LABOUR					

1001	Wireman	day	0.12	447.00	53.64
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallasi	day	0.24	368.00	88.32
	TOTAL				4925.20
	OVERHEADS & PROFIT @ 15 %				738.78
	TOTAL				5663.98
	Rate for Each				5663.98
	Say				5664.00

2.5.3 12 way (4 + 36), Double door**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1762	12 way (4+36), TPN, vertical type, MCB DB, double door	each	1.00	5975.82	5975.82
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				6000.32
	Cartage @ 1 % of A1				60.00
	LABOUR				
1001	Wireman	day	0.12	447.00	53.64
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallasi	day	0.24	368.00	88.32
	TOTAL				6251.12
	OVERHEADS & PROFIT @ 15 %				937.67
	TOTAL				7188.79
	Rate for Each				7188.79
	Say				7189.00

2.6 DELETED

2.7 DELETED

2.8 DELETED

2.9 DELETED

2.10 Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.10.1 SINGLE POLE**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1706	6 A. to 32 A. ratings , SP MCB, "C" curve, 10 kA breaking capacity	each	1.00	117.00	117.00
	Total cost of materials				117.00

	Cartage @ 1 % of A1				1.17
	LABOUR				
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasasi	day	0.04	368.00	14.72
	TOTAL				150.77
	OVERHEADS & PROFIT @ 15 %				22.62
	TOTAL				173.39
	Rate for Each				173.39
	Say				173.00

2.10.2 Single pole and neutral**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1707	6 A. to 32 A. ratings , SPN MCB, "C" curve, 10 kA breaking capacity	each	1.00	351.00	351.00
	Total cost of materials				351.00
	Cartage @ 1 % of A1				3.51
	LABOUR				
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasasi	day	0.04	368.00	14.72
	TOTAL				387.11
	OVERHEADS & PROFIT @ 15 %				58.07
	TOTAL				445.18
	Rate for Each				445.18
	Say				445.00

2.10.3 Double pole**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1708	6 A. to 32 A. ratings , DP MCB, "C" curve, 10 kA breaking capacity	each	1.00	366.00	366.00
	Total cost of materials				366.00
	Cartage @ 1 % of A1				3.66
	LABOUR				
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasasi	day	0.04	368.00	14.72
	TOTAL				402.26
	OVERHEADS & PROFIT @ 15 %				60.34
	TOTAL				462.60
	Rate for Each				462.60
	Say				463.00

2.10.4 Triple pole**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1709	6 A. to 32 A. ratings , TP MCB, "C" curve, 10 kA breaking capacity	each	1.00	570.00	570.00
Total cost of materials					570.00
Cartage @ 1 % of A1					5.70
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					608.30
OVERHEADS & PROFIT @ 15 %					91.25
TOTAL					699.55
Rate for Each					699.55
Say					700.00

2.10.5 Triple pole and neutral**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1710	6 A. to 32 A. ratings , TPN MCB, "C" curve, 10 kA breaking capacity	each	1.00	735.00	735.00
Total cost of materials					735.00
Cartage @ 1 % of A1					7.35
LABOUR					
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					774.95
OVERHEADS & PROFIT @ 15 %					116.24
TOTAL					891.19
Rate for Each					891.19
Say					891.00

2.11 Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1711	Single pole, blanking plate	each	1.00	5.00	5.00
Total cost of materials					5.00
Cartage @ 1 % of A1					0.05
LABOUR					

1001	Wireman	day	0.001	447.00	0.45
1007	Khallasi	day	0.001	368.00	0.37
	TOTAL				5.87
	OVERHEADS & PROFIT @ 15 %				0.88
	TOTAL				6.75
	Rate for Each				6.75
	Say				7.00

2.12 Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.12.1 40 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1712	40 A., 2 pole isolator	each	1.00	159.00	159.00
	Total cost of materials				159.00
	Cartage @ 1 % of A1				1.59
	LABOUR				
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
	TOTAL				193.19
	OVERHEADS & PROFIT @ 15 %				28.98
	TOTAL				222.17
	Rate for Each				222.17
	Say				222.00

2.12.2 63 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1713	63 A., 2 pole isolator	each	1.00	186.00	186.00
	Total cost of materials				186.00
	Cartage @ 1 % of A1				1.86
	LABOUR				
1001	Wireman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
	TOTAL				220.46
	OVERHEADS & PROFIT @ 15 %				33.07
	TOTAL				253.53
	Rate for Each				253.53
	Say				254.00

2.13 Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.**2.13.1 40 A****Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1714	40 A., 4 pole isolator	each	1.00	510.00	510.00
Total cost of materials					510.00
Cartage @ 1 % of A1					5.10
LABOUR					
1001	Wireman	day	0.08	447.00	35.76
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					580.30
OVERHEADS & PROFIT @ 15 %					87.05
TOTAL					667.35
Rate for Each					667.35
Say					667.00

2.13.2 63 A**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1715	63 A., 4 pole isolator	each	1.00	519.00	519.00
Total cost of materials					519.00
Cartage @ 1 % of A1					5.19
LABOUR					
1001	Wireman	day	0.08	447.00	35.76
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					589.39
OVERHEADS & PROFIT @ 15 %					88.41
TOTAL					677.80
Rate for Each					677.80
Say					678.00

2.13.3 100 A**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1716	100 A., 4 pole isolator	each	1.00	675.00	675.00
Total cost of materials					675.00
Cartage @ 1 % of A1					6.75
LABOUR					

1001	Wireman	day	0.08	447.00	35.76
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					746.95
OVERHEADS & PROFIT @ 15 %					112.04
TOTAL					858.99
Rate for Each					858.99
Say					859.00

2.14 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.14.1 25 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1717	25 A. rating, 2 pole RCCB, 30 mA	each	1.00	1380.00	1380.00
Total cost of materials					1380.00
Cartage @ 1 % of A1					13.80
LABOUR					
1001	Wireman	day	0.05	447.00	22.35
1007	Khallasi	day	0.05	368.00	18.40
TOTAL					1434.55
OVERHEADS & PROFIT @ 15 %					215.18
TOTAL					1649.73
Rate for Each					1649.73
Say					1650.00

2.14.2 40 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1718	40 A. rating, 2 pole RCCB, 30 mA	each	1.00	1440.00	1440.00
Total cost of materials					1440.00
Cartage @ 1 % of A1					14.40
LABOUR					
1001	Wireman	day	0.05	447.00	22.35
1007	Khallasi	day	0.05	368.00	18.40
TOTAL					1495.15
OVERHEADS & PROFIT @ 15 %					224.27
TOTAL					1719.42
Rate for Each					1719.42
Say					1719.00

2.14.3 63 A**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1719	63 A. rating, 2 pole RCCB, 30 mA	each	1.00	1890.00	1890.00
	Total cost of materials				1890.00
	Cartage @ 1 % of A1				18.90
LABOUR					
1001	Wireman	day	0.05	447.00	22.35
1007	Khallasasi	day	0.05	368.00	18.40
	TOTAL				1949.65
	OVERHEADS & PROFIT @ 15 %				292.45
	TOTAL				2242.10
	Rate for Each				2242.10
	Say				2242.00

2.15 Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.15.1 25 A**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1720	25 A. rating, 4 pole RCCB, 30 mA	each	1.00	1740.00	1740.00
	Total cost of materials				1740.00
	Cartage @ 1 % of A1				17.40
LABOUR					
1001	Wireman	day	0.08	447.00	35.76
1007	Khallasasi	day	0.08	368.00	29.44
	TOTAL				1822.60
	OVERHEADS & PROFIT @ 15 %				273.39
	TOTAL				2095.99
	Rate for Each				2095.99
	Say				2096.00

2.15.2 40 A**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1721	40 A. rating, 4 pole RCCB, 30 mA	each	1.00	1770.00	1770.00
	Total cost of materials				1770.00
	Cartage @ 1 % of A1				17.70

LABOUR					
1001	Wireman	day	0.08	447.00	35.76
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					1852.90
OVERHEADS & PROFIT @ 15 %					277.94
TOTAL					2130.84
Rate for Each					2130.84
Say					2131.00

2.15.3 63 A**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1722	63 A. rating, 4 pole RCCB, 30 mA	each	1.00	1917.00	1917.00
Total cost of materials					1917.00
Cartage @ 1 % of A1					19.17
LABOUR					
1001	Wireman	day	0.08	447.00	35.76
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					2001.37
OVERHEADS & PROFIT @ 15 %					300.21
TOTAL					2301.58
Rate for Each					2301.58
Say					2302.00

2.16 Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1742	Sheet steel DP MCB enclosure	each	1.00	92.77	92.77
1708	6 A. to 32 A. ratings , DP MCB, "C" curve, 10 kA breaking capacity	each	1.00	366.00	366.00
Total cost of materials					458.77
Cartage @ 1 % of A1					4.59
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					544.86
OVERHEADS & PROFIT @ 15 %					81.73
TOTAL					626.59
Rate for Each					626.59
Say					627.00

2.17 Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 A, 415 V "C" curve TP MCB complete with connections, testing and commissioning etc. as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1743	Sheet steel TP MCB enclosure	each	1.00	105.50	105.50
1709	6 A. to 32 A. ratings , TP MCB, "C" curve, 10 kA breaking capacity	each	1.00	570.00	570.00
Total cost of materials					675.50
Cartage @ 1 % of A1					6.76
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					763.76
OVERHEADS & PROFIT @ 15 %					114.56
TOTAL					878.32
Rate for Each					878.32
Say					878.00

2.18 Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1730	20 A. SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1.00	495.00	495.00
1706	6 A. to 32 A. ratings , SP MCB, "C" curve, 10 kA breaking capacity	each	1.00	117.00	117.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					636.50
Cartage @ 1 % of A1					6.37
LABOUR					
1001	Wireman	day	0.180	447.00	80.46
1010	Mason, Grade 2	day	0.180	407.00	73.26
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					851.79
OVERHEADS & PROFIT @ 15 %					127.77
TOTAL					979.56
Rate for Each					979.56
Say					980.00

- 2.19 Supplying and fixing 20 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.**

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1731	20 A. TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1.00	535.50	535.50
1709	6 A. to 32 A. ratings , TP MCB, "C" curve, 10 kA breaking capacity	each	1.00	570.00	570.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					1130.00
Cartage @ 1 % of A1					11.30
LABOUR					
1001	Wireman	day	0.080	447.00	35.76
1010	Mason, Grade 2	day	0.080	407.00	32.56
1007	Khallas	day	0.15	368.00	55.20
TOTAL					1264.82
OVERHEADS & PROFIT @ 15 %					189.72
TOTAL					1454.54
Rate for Each					1454.54
Say					1455.00

- 2.20 Supplying and fixing 30 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.**

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1732	30 A. TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1.00	1425.00	1425.00
1709	6 A. to 32 A. ratings , TP MCB, "C" curve, 10 kA breaking capacity	each	1.00	570.00	570.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					2019.50
Cartage @ 1 % of A1					20.20
LABOUR					
1001	Wireman	day	0.080	447.00	35.76

1010	Mason, Grade 2	day	0.080	407.00	32.56
1007	Khallasi	day	0.15	368.00	55.20
	TOTAL				2163.22
	OVERHEADS & PROFIT @ 15 %				324.48
	TOTAL				2487.70
	Rate for Each				2487.70
	Say				2488.00

2.21 Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2933	200 mm X 150 mm M.V. danger notice plate	each	1.00	40.00	40.00
2865	15 mm long X 6 mm dia G.I. bolts and nuts	each	6.00	4.00	24.00
	Total cost of materials				64.00
	Cartage @ 1 % of A1				0.64
	LABOUR				
1001	Wireman	day	0.08	447.00	35.76
1007	Khallasi	day	0.08	368.00	29.44
	TOTAL				129.84
	OVERHEADS & PROFIT @ 15 %				19.48
	TOTAL				149.32
	Rate for Each				149.32
	Say				149.00

2.22 Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2932	250 mm X 200 mm H.T. danger notice plate	each	1.00	52.00	52.00
2865	15 mm long X 6 mm dia G.I. bolts and nuts	each	6.00	4.00	24.00
	Total cost of materials				76.00
	Cartage @ 1 % of A1				0.76
	LABOUR				
1001	Wireman	day	0.080	447.00	35.76
1007	Khallasi	day	0.080	368.00	29.44
	TOTAL				141.96
	OVERHEADS & PROFIT @ 15 %				21.29
	TOTAL				163.25
	Rate for Each				163.25
	Say				163.00

2.23 Supplying and fixing Cable End Box (Loose Wire Box) (IP 43) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with testing and commissioning etc. as required.

2.23.1 For 6 way, Double door SPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for one each					
MATERIAL					
1801	Cable End Boxes for 6 Way SPN DD DB	each	1.00	215.40	215.40
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					239.90
Cartage @ 1 %					2.40
LABOUR					
1001	Wireman	day	0.06	447.00	26.82
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					331.90
Add 15 % Over Head & Contractor Profit					49.78
TOTAL					381.68
Rate for Each					381.68
Say					382.00

2.23.2 For 8 way, Double door SPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for one each					
MATERIAL					
1802	Cable End Boxes for 8 Way SPN DD DB	each	1.00	262.80	262.80
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					287.30
Cartage @ 1 %					2.87
LABOUR					
1001	Wireman	day	0.06	447.00	26.82
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					379.77
Add 15 % Over Head & Contractor Profit					56.97
TOTAL					436.74
Rate for Each					436.74
Say					437.00

2.23.3 For 10 way, Double door SPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for one each					
MATERIAL					
1803	Cable End Boxes for 10 Way SPN DD DB	each	1.00	252.00	252.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					276.50
Cartage @ 1 %					2.77
LABOUR					
1001	Wireman	day	0.06	447.00	26.82
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					368.87
Add 15 % Over Head & Contractor Profit					55.33
TOTAL					424.19
Rate for Each					424.19
Say					424.00

2.23.4 For 14 way, Double door SPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for one each					
MATERIAL					
1804	Cable End Boxes for 14 Way SPN DD DB	each	1.00	307.20	307.20
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					331.70
Cartage @ 1 %					3.32
LABOUR					
1001	Wireman	day	0.06	447.00	26.82
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					424.62
Add 15 % Over Head & Contractor Profit					63.69
TOTAL					488.31
Rate for Each					488.31
Say					488.00

2.24 Supplying and fixing Cable End Box (Loose Wire Box) (IP 43) suitable for following triple pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with testing and commissioning etc. as required.

2.24.1 For 4 way, Double door TPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for one each					
MATERIAL					
1805	Cable End Boxes for 4 Way TPN DD DB	each	1.00	390.60	390.60
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					415.10
Cartage @ 1 %					4.15
LABOUR					
1001	Wireman	day	0.06	447.00	26.82
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					508.85
Add 15 % Over Head & Contractor Profit					76.33
TOTAL					585.18
Rate for Each					585.18
Say					585.00

2.24.2 For 6 way, Double door TPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for one each					
MATERIAL					
1806	Cable End Boxes for 6 Way TPN DD DB	each	1.00	411.60	411.60
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					436.10
Cartage @ 1 %					4.36
LABOUR					
1001	Wireman	day	0.06	447.00	26.82
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					530.06
Add 15 % Over Head & Contractor Profit					79.51
TOTAL					609.57
Rate for Each					609.57
Say					610.00

2.24.3 For 8 way, Double door TPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for one each					
MATERIAL					
1807	Cable End Boxes for 8 Way TPN DD DB	each	1.00	513.60	513.60
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					538.10
Cartage @ 1 %					5.38
LABOUR					
1001	Wireman	day	0.06	447.00	26.82
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					633.08
Add 15 % Over Head & Contractor Profit					94.96
TOTAL					728.04
Rate for Each					728.04
Say					728.00

2.25 Supplying and fixing Cable End Box (Loose Wire Box) (IP 43) suitable for tripple pole and neutral, sheet steel, Vertical MCB distribution board, 415 V, on surface/ recess, complete with testing and commissioning etc. as required.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for one each					
MATERIAL					
1808	Cable End Boxes for Vertical TPN DD DB	each	1.00	260.00	260.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					284.50
Cartage @ 1 %					2.85
LABOUR					
1001	Wireman	day	0.06	447.00	26.82
1010	Mason, Grade 2	day	0.10	407.00	40.70
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					376.95
Add 15 % Over Head & Contractor Profit					56.54
TOTAL					433.49
Rate for Each					433.49
Say					433.00

CHAPTER 3 – RISING MAINS & BUS TRUNKING

3.1 Supplying, installing on wall, testing and commissioning of following capacity rising mains made of 1.6mm thick IP 42 sheet steel enclosure duly painted with powder coating, wall straps, fully PVC insulated 4 Nos aluminium bus bars having current density of 130 A/sq. cm at nominal current rating in convenient sections and suitable for 415 V, 3 phase, 4 wire, 50 Hz, A.C. supply with extension joints, fire proof barriers, expansion joints, thrust pads including jointing, and earthing with 2 runs of galvanised iron strips etc. as required. (Rising mains conforming to IS 8623, TEC 439)

3.1.1 200 A (Isc=15 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1501	200 A. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	4213.64	42136.40
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.5m = 3.5m @ 2.1 kg/m = 7.35kg	kg	7.35	37.80	277.83
Total cost of materials					42414.23
Cartage @ 1 % of A1					424.14
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.00	368.00	1104.00
TOTAL					45243.37
OVERHEADS & PROFIT @ 15 %					6786.51
Cost for 10 meter					52029.88
Rate per meter					5202.99
Say					5203.00

3.1.2 300 A (Isc=20 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1502	300 A. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	4405.17	44051.70
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.5m = 3.5m @ 2.1 kg/m = 7.35kg	kg	7.35	37.80	277.83
Total cost of materials					44329.53
Cartage @ 1 % of A1					443.30
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.00	368.00	1104.00
TOTAL					47177.83

OVERHEADS & PROFIT @ 15 %	7076.67
Cost for 10 meter	54254.50
Rate per meter	5425.45
Say	5425.00

3.1.3 400 A (Isc=25 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1503	400 A. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	5458.57	54585.70
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.5m = 3.5m @ 2.1 kg/m = 7.35kg	kg	7.35	37.80	277.83
Total cost of materials					54863.53
Cartage @ 1 % of A1					548.64
LABOUR					
1001	Wireman	day	2.25	447.00	1005.75
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.25	368.00	1196.00
TOTAL					58020.92
OVERHEADS & PROFIT @ 15 %					8703.14
Cost for 10 meter					66724.06
Rate per meter					6672.41
Say					6672.00

3.1.4 600 A (Isc=45 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1504	600 A. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	6128.92	61289.20
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.6m = 4.2m @ 2.1 kg/m = 8.82kg	kg	8.82	37.80	333.40
Total cost of materials					61622.60
Cartage @ 1 % of A1					616.23
LABOUR					
1001	Wireman	day	2.25	447.00	1005.75
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.25	368.00	1196.00
TOTAL					64847.58
OVERHEADS & PROFIT @ 15 %					9727.14
Cost for 10 meter					74574.72
Rate per meter					7457.47
Say					7457.00

3.1.5 800 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1505	800 A. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	7421.75	74217.50
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.6m = 4.2m @ 2.1 kg/m = 8.82kg	kg	8.82	37.80	333.40
Total cost of materials					74550.90
Cartage @ 1 % of A1					745.51
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					78108.91
OVERHEADS & PROFIT @ 15 %					11716.34
Cost for 10 meter					89825.25
Rate per meter					8982.52
Say					8983.00

3.2 Supplying, installing, testing and commissioning of following capacity TPN tap off box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing rising mains complete with TPN disconnecter FSU and HRC fuses, connections, earthing etc. as required.

3.2.1 16 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1541	16 A. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	5016.24	5016.24
Total cost of materials					5016.24
Cartage @ 1 % of A1					50.16
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					5147.90
OVERHEADS & PROFIT @ 15 %					772.19
TOTAL					5920.09
Rate for Each					5920.09
Say					5920.00

3.2.2 32 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1542	32 A. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	5289.85	5289.85
	Total cost of materials				5289.85
	Cartage @ 1 % of A1				52.90
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				5424.25
	OVERHEADS & PROFIT @ 15 %				813.64
	TOTAL				6237.89
	Rate for Each				6237.89
	Say				6238.00

3.2.3 63 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1543	63 A. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	5928.28	5928.28
	Total cost of materials				5928.28
	Cartage @ 1 % of A1				59.28
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
	TOTAL				6093.51
	OVERHEADS & PROFIT @ 15 %				914.03
	TOTAL				7007.54
	Rate for Each				7007.54
	Say				7008.00

3.2.4 100 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1544	100 A. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	6840.32	6840.32
	Total cost of materials				6840.32

	Cartage @ 1 % of A1				68.40
	LABOUR				
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
	TOTAL				7014.67
	OVERHEADS & PROFIT @ 15 %				1052.20
	TOTAL				8066.87
	Rate for Each				8066.87
	Say				8067.00

3.2.5 200 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1545	200 A. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	10762.11	10762.11
	Total cost of materials				10762.11
	Cartage @ 1 % of A1				107.62
	LABOUR				
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
	TOTAL				11008.28
	OVERHEADS & PROFIT @ 15 %				1651.24
	TOTAL				12659.52
	Rate for Each				12659.52
	Say				12660.00

3.2.6 315 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1546	315 A. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	No	1.00	11400.54	11400.54
	Total cost of materials				11400.54
	Cartage @ 1 % of A1				114.01
	LABOUR				
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
	TOTAL				11653.10
	OVERHEADS & PROFIT @ 15 %				1747.96
	TOTAL				13401.06
	Rate for Each				13401.06
	Say				13401.00

3.2.7 400 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1547	400 A. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	No	1.00	11856.56	11856.56
Total cost of materials					11856.56
Cartage @ 1 % of A1					118.57
LABOUR					
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
TOTAL					12113.68
OVERHEADS & PROFIT @ 15 %					1817.05
TOTAL					13930.73
Rate for Each					13930.73
Say					13931.00

3.3 Supplying, installing, testing and commissioning of following capacity TPN distribution tap off box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing rising mains complete with HRC fuses, interconnections, earthing etc. as required.

3.3.1 16 A TPN, 2 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1511	16 A. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	7524.35	7524.35
Total cost of materials					7524.35
Cartage @ 1 % of A1					75.24
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
TOTAL					7705.54
OVERHEADS & PROFIT @ 15 %					1155.83
TOTAL					8861.37
Rate for Each					8861.37
Say					8861.00

3.3.2 16 A TPN, 4 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1512	16 A. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	14136.66	14136.66
Total cost of materials					14136.66
Cartage @ 1 % of A1					141.37
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
TOTAL					14383.98
OVERHEADS & PROFIT @ 15 %					2157.60
TOTAL					16541.58
Rate for Each					16541.58
Say					16542.00

3.3.3 16 A TPN, 6 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1513	16 A. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	20064.95	20064.95
Total cost of materials					20064.95
Cartage @ 1 % of A1					200.65
LABOUR					
1001	Wireman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					20387.85
OVERHEADS & PROFIT @ 15 %					3058.18
TOTAL					23446.03
Rate for Each					23446.03
Say					23446.00

3.3.4 16 A TPN, 8 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1514	16 A. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	27817.31	27817.31
Total cost of materials					27817.31
Cartage @ 1 % of A1					278.17
LABOUR					

CHAPTER-3 : RISING MAINS & BUS TRUNKING

1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
TOTAL					28234.03
OVERHEADS & PROFIT @ 15 %					4235.10
TOTAL					32469.13
Rate for Each					32469.13
Say					32469.00

3.3.5 32 A TPN, 2 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1515	32 A. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	7752.37	7752.37
Total cost of materials					7752.37
Cartage @ 1 % of A1					77.52
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
TOTAL					7935.84
OVERHEADS & PROFIT @ 15 %					1190.38
TOTAL					9126.22
Rate for Each					9126.22
Say					9126.00

3.3.6 32 A TPN, 4 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1516	32 A. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	15960.76	15960.76
Total cost of materials					15960.76
Cartage @ 1 % of A1					159.61
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
TOTAL					16226.32
OVERHEADS & PROFIT @ 15 %					2433.95
TOTAL					18660.27
Rate for Each					18660.27
Say					18660.00

3.3.7 32 A TPN, 6 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1517	32 A. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	20976.99	20976.99
Total cost of materials					20976.99
Cartage @ 1 % of A1					209.77
LABOUR					
1001	Wireman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					21309.01
OVERHEADS & PROFIT @ 15 %					3196.35
TOTAL					24505.36
Rate for Each					24505.36
Say					24505.00

3.3.8 32 A TPN, 8 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1518	32 A. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	29185.38	29185.38
Total cost of materials					29185.38
Cartage @ 1 % of A1					291.85
LABOUR					
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
TOTAL					29615.78
OVERHEADS & PROFIT @ 15 %					4442.37
TOTAL					34058.15
Rate for Each					34058.15
Say					34058.00

3.3.9 63 A TPN, 2 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1519	63 A. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	8846.82	8846.82
Total cost of materials					8846.82
Cartage @ 1 % of A1					88.47

LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
TOTAL					9041.24
OVERHEADS & PROFIT @ 15 %					1356.19
TOTAL					10397.43
Rate for Each					10397.43
Say					10397.00

3.3.10 63 A TPN, 4 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1520	63 A. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.0	15048.72	15048.72
Total cost of materials					15048.72
Cartage @ 1 % of A1					150.49
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
TOTAL					15305.16
OVERHEADS & PROFIT @ 15 %					2295.77
TOTAL					17600.93
Rate for Each					17600.93
Say					17601.00

3.3.11 63 A TPN, 6 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1521	63 A. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.0	16234.37	16234.37
Total cost of materials					16234.37
Cartage @ 1 % of A1					162.34
LABOUR					
1001	Wireman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					16518.96
OVERHEADS & PROFIT @ 15 %					2477.84
TOTAL					18996.80
Rate for Each					18996.80
Say					18997.00

3.3.12 63 A TPN, 8 way**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1522	63 A. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.0	28000.00	28000.00
Total cost of materials					28000.00
Cartage @ 1 % of A1					280.00
LABOUR					
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
TOTAL					28418.55
OVERHEADS & PROFIT @ 15 %					4262.78
TOTAL					32681.33
Rate for Each					32681.33
Say					32681.00

3.4 Supplying, installing, testing and commissioning of following capacity End Feed Unit made of 1.6mm thick sheet steel enclosure duly painted with powder coating to existing rising mains complete with TPN disconnecter FSU and HRC fuses, mounting stands, cable end box, brass compression gland, connections, earthing etc. as required.

3.4.1 200 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1526	200 A. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.0	12586.19	12586.19
2211	Aluminium lugs for 185 sq. mm cable	each	3.00	23.27	69.81
2208	Aluminium lugs for 95 sq. mm cable	each	1.00	10.27	10.27
Total cost of materials					12666.27
Cartage @ 1 % of A1					126.66
LABOUR					
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
TOTAL					12931.48
OVERHEADS & PROFIT @ 15 %					1939.72
TOTAL					14871.20
Rate for Each					14871.20
Say					14871.00

3.4.2 300 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1527	300 A. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.0	13680.65	13680.65
2214	Aluminium lugs for 300 sq. mm cable	each	3.00	55.83	167.48
2210	Aluminium lugs for 150 sq. mm cable	each	1.00	18.61	18.61
Total cost of materials					13866.74
Cartage @ 1 % of A1					138.67
LABOUR					
1001	Wireman	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					14209.16
OVERHEADS & PROFIT @ 15 %					2131.37
TOTAL					16340.53
Rate for Each					16340.53
Say					16341.00

3.4.3 400 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1528	400 A. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.0	15048.72	15048.72
2215	Aluminium lugs for 400 sq. mm cable	each	3.00	80.68	242.04
2212	Aluminium lugs for 225 sq. mm cable	each	1.00	32.55	32.55
Total cost of materials					15323.31
Cartage @ 1 % of A1					153.23
LABOUR					
1001	Wireman	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
TOTAL					15745.49
OVERHEADS & PROFIT @ 15 %					2361.82
TOTAL					18107.31
Rate for Each					18107.31
Say					18107.00

3.4.4 600 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1529	600 A. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.0	16234.37	16234.37
2214	Aluminium lugs for 300 sq. mm cable	each	6.00	55.83	334.96
2210	Aluminium lugs for 150 sq. mm cable	each	2.00	18.61	37.22
Total cost of materials					16606.55
Cartage @ 1 % of A1					166.07
LABOUR					
1001	Wireman	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
TOTAL					17041.57
OVERHEADS & PROFIT @ 15 %					2556.23
TOTAL					19597.80
Rate for Each					19597.80
Say					19598.00

3.4.5 800 A TPN**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1530	800 A. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.0	18058.46	18058.46
2215	Aluminium lugs for 400 sq. mm cable	each	6.00	80.68	484.08
2212	Aluminium lugs for 225 sq. mm cable	each	2.00	32.55	65.09
Total cost of materials					18607.63
Cartage @ 1 % of A1					186.08
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					19201.21
OVERHEADS & PROFIT @ 15 %					2880.18
TOTAL					22081.39
Rate for Each					22081.39
Say					22081.00

3.5 Supplying, installation, including suspension, testing and commissioning of following capacity bus trunking with aluminium bus bars having current density of 130 A/ sq. cm at nominal current rating in 1.6mm thick IP 42 sheet steel enclosure in convenient sections for use on, 3 phase, 4 wire, 415 V, 50 Hz, A.C. supply including jointing of sections, flexible joints, expansion joints, bends and earthing with 2 runs of galvanised iron strips, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.

3.5.1 800 A**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1531	800 A. TPN, bus trunking with aluminium busbars	meter	10.00	7068.34	70683.40
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	37.80	333.40
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	21.00	294.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	7.00	98.00
Total cost of materials					71408.80
Cartage @ 1 % of A1					714.09
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1007	Khallasi	day	2.00	368.00	736.00
TOTAL					73752.89
OVERHEADS & PROFIT @ 15 %					11062.93
Cost for 10 meter					84815.82
Rate per meter					8481.58
Say					8482.00

3.5.2 1000 A**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1532	1000 A. TPN, bus trunking with aluminium busbars	meter	10.00	8390.80	83908.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	37.80	333.40
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	21.00	294.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	7.00	98.00
Total cost of materials					84633.40
Cartage @ 1 % of A1					846.33
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1007	Khallasi	day	2.00	368.00	736.00
TOTAL					87109.73
OVERHEADS & PROFIT @ 15 %					13066.46

Cost for 10 meter	100176.19
Rate per meter	10017.62
Say	10018.00

3.5.3 1250 A**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1533	1250 A. TPN, bus trunking with aluminium busbars	meter	10.0	10762.11	107621.11
2805	35 mm X 35 mm X 4 mm angle iron	kg	11.03	37.80	416.93
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	21.00	294.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	7.00	98.00
Total cost of materials					108430.04
Cartage @ 1 % of A1					1084.30
LABOUR					
1001	Wireman	day	3.00	447.00	1341.00
1007	Khallasi	day	3.00	368.00	1104.00
TOTAL					111959.34
OVERHEADS & PROFIT @ 15 %					16793.90
Cost for 10 meter					128753.24
Rate per meter					12875.32
Say					12875.00

3.5.4 1400 A**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1534	1400 A. TPN, bus trunking with aluminium busbars	meter	10.0	13498.24	134982.40
2805	35 mm X 35 mm X 4 mm angle iron	kg	11.03	37.80	416.93
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	21.00	294.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	7.00	98.00
Total cost of materials					135791.33
Cartage @ 1 % of A1					1357.91
LABOUR					
1001	Wireman	day	3.00	447.00	1341.00
1007	Khallasi	day	3.00	368.00	1104.00
TOTAL					139594.24
OVERHEADS & PROFIT @ 15 %					20939.14
Cost for 10 meter					160533.38
Rate per meter					16053.34
Say					16053.00

3.5.4 1600 A**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1535	1600 A. TPN, bus trunking with aluminium busbars	meter	10.0	13498.24	134982.40
2805	35 mm X 35 mm X 4 mm angle iron	kg	9.80	37.80	370.44
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	21.00	294.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	7.00	98.00
Total cost of materials					135744.84
Cartage @ 1 % of A1					1357.45
LABOUR					
1001	Wireman	day	3.50	447.00	1564.50
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					139954.79
OVERHEADS & PROFIT @ 15 %					20993.22
Cost for 10 meter					160948.01
Rate per meter					16094.80
Say					16095.00

3.6 Supplying, installation, testing and commissioning of following capacity overhead distribution bus trunking with aluminium bus bars having current density of 130 A/ sq. cm at nominal current rating in 1.6mm thick IP 42 sheet steel enclosure in convenient sections with provision of tapping points for use on, 3 phase, 4 wire, 415 V, 50 Hz, A.C. supply including jointing of sections, bends, earthing with 2 runs of galvanised iron strips, all installation accessories etc. as required.

3.6.1 200 A**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1536	200 A. TPN, overhead busbars with aluminium busbars	meter	10.0	4013.00	40130.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	37.80	333.40
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	21.00	294.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	7.00	98.00
Total cost of materials					40855.40
Cartage @ 1 % of A1					408.55
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1007	Khallasi	day	2.00	368.00	736.00
TOTAL					42893.95
OVERHEADS & PROFIT @ 15 %					6434.09
Cost for 10 meter					49328.04
Rate per meter					4932.80
Say					4933.00

3.6.2 400 A**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1537	400 A. TPN, overhead busbars with aluminium busbars	meter	10.0	5198.64	51986.40
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	37.80	333.40
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	21.00	294.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	7.00	98.00
Total cost of materials					52711.80
Cartage @ 1 % of A1					527.12
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1007	Khallas	day	2.00	368.00	736.00
TOTAL					54868.92
OVERHEADS & PROFIT @ 15 %					8230.34
Cost for 10 meter					63099.26
Rate per meter					6309.93
Say					6310.00

3.7 Supplying, installing, testing and commissioning of following capacity TPN tap off box / plug-in box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing overhead bus bar system complete with TPN disconnecter FSU and HRC fuses, connections, earthing etc. as required.

3.7.1 32 A**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1538	32 A. TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	1.0	4534.16	4534.16
Total cost of materials					4534.16
Cartage @ 1 % of A1					45.34
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallas	day	0.10	368.00	36.80
TOTAL					4661.00
OVERHEADS & PROFIT @ 15 %					699.15
TOTAL					5360.15
Rate for Each					5360.15
Say					5360.00

3.7.2 63 A**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1539	63 A. TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	1.0	5081.38	5081.38
Total cost of materials					5081.38
Cartage @ 1 % of A1					50.81
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
TOTAL					5238.14
OVERHEADS & PROFIT @ 15 %					785.72
TOTAL					6023.86
Rate for Each					6023.86
Say					6024.00

3.7.3 63 A**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1540	100 A. TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	1.0	5863.14	5863.14
Total cost of materials					5863.14
Cartage @ 1 % of A1					58.63
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
TOTAL					6027.72
OVERHEADS & PROFIT @ 15 %					904.16
TOTAL					6931.88
Rate for Each					6931.88
Say					6932.00

3.8 Supplying, installing on wall, testing and commissioning of following capacity Air Insulated Compact Type Rising Mains for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq. cm at nominal current rating, necessary joints & expansion joints, fire barrier at each floor, provision of tapping at every meter, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.

3.8.1 200 A, (Isc=15 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1551	200 A. TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.0	4407.53	44075.30
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					44148.63
Cartage @ 1 % of A1					441.49
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasasi	day	2.75	368.00	1012.00
TOTAL					46801.37
OVERHEADS & PROFIT @ 15 %					7020.20
Cost for 10 meter					53821.57
Rate per meter					5382.16
Say					5382.00

3.8.2 315 A, (Isc=25 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1552	315 A. TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.0	4772.54	47725.40
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					47798.73
Cartage @ 1 % of A1					477.99
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasasi	day	2.75	368.00	1012.00
TOTAL					50487.97
OVERHEADS & PROFIT @ 15 %					7573.20
Cost for 10 meter					58061.17
Rate per meter					5806.12
Say					5806.00

3.8.3 400 A, (Isc=30 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1553	400 A. TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.0	5304.11	53041.10
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					53114.43
Cartage @ 1 % of A1					531.14
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasasi	day	3.00	368.00	1104.00
TOTAL					56050.57
OVERHEADS & PROFIT @ 15 %					8407.59
Cost for 10 meter					64458.16
Rate per meter					6445.82
Say					6446.00

3.8.4 500 A, (Isc=35 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1554	500 A. TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.0	6105.88	61058.80
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					61132.13
Cartage @ 1 % of A1					611.32
LABOUR					
1001	Wireman	day	2.25	447.00	1005.75
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasasi	day	3.25	368.00	1196.00
TOTAL					64352.20
OVERHEADS & PROFIT @ 15 %					9652.83
Cost for 10 meter					74005.03
Rate per meter					7400.50
Say					7401.00

3.8.5 630 A, (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1555	630 A. TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.0	7302.78	73027.80
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					73101.13
Cartage @ 1 % of A1					731.01
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					76644.64
OVERHEADS & PROFIT @ 15 %					11496.70
Cost for 10 meter					88141.34
Rate per meter					8814.13
Say					8814.00

3.8.6 630 A, (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1556	800 A. TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.0	10135.13	101351.30
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					101424.63
Cartage @ 1 % of A1					1014.25
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					105251.38
OVERHEADS & PROFIT @ 15 %					15787.71
Cost for 10 meter					121039.09
Rate per meter					12103.91
Say					12104.00

3.8.7 1000 A, (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1557	1000 A. TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.0	11770.31	117703.10
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					117776.43
Cartage @ 1 % of A1					1177.76
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasasi	day	3.50	368.00	1288.00
TOTAL					121766.69
OVERHEADS & PROFIT @ 15 %					18265.00
Cost for 10 meter					140031.69
Rate per meter					14003.17
Say					14003.00

3.8.8 1250 A, (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1558	1250 A. TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.0	14035.01	140350.10
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					140423.43
Cartage @ 1 % of A1					1404.23
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasasi	day	3.50	368.00	1288.00
TOTAL					144640.16
OVERHEADS & PROFIT @ 15 %					21696.02
Cost for 10 meter					166336.18
Rate per meter					16633.62
Say					16634.00

3.9 Supplying, installing on wall/ceiling, testing and commissioning of following capacity Air Insulated Compact Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density

of 130 A/sq. cm at nominal current rating, necessary joints, elbow joints & expansion joints, fire barrier at each floor, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.

3.9.1 200 A, (Isc=15 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1559	200 A. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.0	4480.31	44803.10
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					44876.43
Cartage @ 1 % of A1					448.76
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.75	368.00	1012.00
TOTAL					47536.44
OVERHEADS & PROFIT @ 15 %					7130.47
Cost for 10 meter					54666.91
Rate per meter					5466.69
Say					5467.00

3.9.2 315 A, (Isc=25 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1560	315 A. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.0	4784.06	47840.60
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					47913.93
Cartage @ 1 % of A1					479.14
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	0.75	407.00	305.25
1007	Khallasi	day	2.75	368.00	1012.00
TOTAL					50604.32
OVERHEADS & PROFIT @ 15 %					7590.65
Cost for 10 meter					58194.97
Rate per meter					5819.50
Say					5819.00

3.9.3 400 A, (Isc=30 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1561	400 A. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.0	5315.63	53156.30
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					53229.63
Cartage @ 1 % of A1					532.30
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.00	368.00	1104.00
TOTAL					56166.93
OVERHEADS & PROFIT @ 15 %					8425.04
Cost for 10 meter					64591.97
Rate per meter					6459.20
Say					6459.00

3.9.4 500 A, (Isc=35 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1562	500 A. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.0	6150.94	61509.40
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					61582.73
Cartage @ 1 % of A1					615.83
LABOUR					
1001	Wireman	day	2.25	447.00	1005.75
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.25	368.00	1196.00
TOTAL					64807.31
OVERHEADS & PROFIT @ 15 %					9721.10
Cost for 10 meter					74528.41
Rate per meter					7452.84
Say					7453.00

3.9.5 630 A, (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1563	630 A. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.0	7290.00	72900.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					72973.33
Cartage @ 1 % of A1					729.73
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					76515.56
OVERHEADS & PROFIT @ 15 %					11477.33
Cost for 10 meter					87992.89
Rate per meter					8799.29
Say					8799.00

3.9.6 800 A, (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1564	800 A. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.0	9492.19	94921.90
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					94995.23
Cartage @ 1 % of A1					949.95
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					98757.68
OVERHEADS & PROFIT @ 15 %					14813.65
Cost for 10 meter					113571.33
Rate per meter					11357.13
Say					11357.00

3.9.7 1000 A, (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1565	1000 A. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.0	11010.94	110109.40
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					110182.73
Cartage @ 1 % of A1					1101.83
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					114097.06
OVERHEADS & PROFIT @ 15 %					17114.56
Cost for 10 meter					131211.62
Rate per meter					13121.16
Say					13121.00

3.9.8 1250 A, (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1566	1250 A. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.0	12909.38	129093.80
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
Total cost of materials					129167.13
Cartage @ 1 % of A1					1291.67
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					133271.30
OVERHEADS & PROFIT @ 15 %					19990.70
Cost for 10 meter					153262.00
Rate per meter					15326.20
Say					15326.00

3.10 DELETED

3.11 Supplying, installation, testing & commissioning of following capacity End Feed Unit for the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 V, 50Hz A.C. supply made with 1.6mm thick steel sheet enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete with necessary joints including clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required

3.11.1 200 A, (Isc=15 kA for 1 second)

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1567	200 A. TPN, End Feed Unit for compact rising mains including all accessories	each	1.0	3366.56	3366.56
Total cost of materials					3366.56
Cartage @ 1 % of A1					33.67
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					3481.73
OVERHEADS & PROFIT @ 15 %					522.26
TOTAL					4003.99
Rate for Each					4003.99
Say					4004.00

3.11.2 315 A, (Isc=25 kA for 1 second)

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1568	315 A. TPN, End Feed Unit for compact rising mains including all accessories	each	1.0	3508.31	3508.31
Total cost of materials					3508.31
Cartage @ 1 % of A1					35.08
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					3624.89
OVERHEADS & PROFIT @ 15 %					543.73
TOTAL					4168.62
Rate for Each					4168.62
Say					4169.00

3.11.3 400 A, (Isc=30 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1569	400 A. TPN, End Feed Unit for compact rising mains including all accessories	each	1.0	4465.13	4465.13
Total cost of materials					4465.13
Cartage @ 1 % of A1					44.65
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasasi	day	0.13	368.00	47.84
TOTAL					4615.73
OVERHEADS & PROFIT @ 15 %					692.36
TOTAL					5308.09
Rate for Each					5308.09
Say					5308.00

3.11.4 500 A, (Isc=35 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1570	500 A. TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	4677.75	4677.75
Total cost of materials					4677.75
Cartage @ 1 % of A1					46.78
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasasi	day	0.13	368.00	47.84
TOTAL					4830.48
OVERHEADS & PROFIT @ 15 %					724.57
TOTAL					5555.05
Rate for Each					5555.05
Say					5555.00

3.11.5 630 A, (Isc=50 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1571	630 A. TPN, End Feed Unit for compact rising mains including all accessories	each	1.0	5705.44	5705.44
Total cost of materials					5705.44
Cartage @ 1 % of A1					57.05
LABOUR					

1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
	TOTAL				5901.04
	OVERHEADS & PROFIT @ 15 %				885.16
	TOTAL				6786.20
	Rate for Each				6786.20
	Say				6786.00

3.11.6 800 A, (Isc=50 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1572	800 A. TPN, End Feed Unit for compact rising mains including all accessories	each	1.0	6758.44	6758.44
	Total cost of materials				6758.44
	Cartage @ 1 % of A1				67.58
	LABOUR				
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
	TOTAL				6964.57
	OVERHEADS & PROFIT @ 15 %				1044.69
	TOTAL				8009.26
	Rate for Each				8009.26
	Say				8009.00

3.11.7 1000 A, (Isc=50 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1573	1000 A. TPN, End Feed Unit for compact rising mains including all accessories	each	1.0	7583.63	7583.63
	Total cost of materials				7583.63
	Cartage @ 1 % of A1				75.84
	LABOUR				
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
	TOTAL				7798.02
	OVERHEADS & PROFIT @ 15 %				1169.70
	TOTAL				8967.72
	Rate for Each				8967.72
	Say				8968.00

3.11.8 1250 A, (Isc=50 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1574	1250 A. TPN, End Feed Unit for compact rising mains including all accessories	each	1.0	8008.88	8008.88
Total cost of materials					8008.88
Cartage @ 1 % of A1					80.09
LABOUR					
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasi	day	0.17	368.00	62.56
TOTAL					8227.52
OVERHEADS & PROFIT @ 15 %					1234.13
TOTAL					9461.65
Rate for Each					9461.65
Say					9462.00

3.12 Supplying, installation, testing & commisioning of following capacity Plug In/ tap off box on the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 V, 50Hz A.C. supply made with 1.6mm thick sheet steel enclosure (IP54) duly powder coated with provision of MCCB (but without MCCB) complete etc. as required

3.12.1 125 A, (Isc=15 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1575	125 A. TPN, TAP OFF Box for compact rising mains including all accessories	each	1.0	3898.13	3898.13
Total cost of materials					3898.13
Cartage @ 1 % of A1					38.98
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					4018.61
OVERHEADS & PROFIT @ 15 %					602.79
TOTAL					4621.40
Rate for Each					4621.40
Say					4621.00

3.12.2 200 A, (Isc=25 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1576	200 A. TPN, TAP OFF Box for compact rising mains including all accessories	each	1.0	4961.25	4961.25
Total cost of materials					4961.25
Cartage @ 1 % of A1					49.61
LABOUR					
1001	Wireman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					5092.36
OVERHEADS & PROFIT @ 15 %					763.85
TOTAL					5856.21
Rate for Each					5856.21
Say					5856.00

3.12.3 250 A, (Isc=30 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1577	315 A. TPN, TAP OFF Box for compact rising mains including all accessories	each	1.0	6378.75	6378.75
Total cost of materials					6378.75
Cartage @ 1 % of A1					63.79
LABOUR					
1001	Wireman	day	0.13	447.00	58.11
1007	Khallasi	day	0.13	368.00	47.84
TOTAL					6548.49
OVERHEADS & PROFIT @ 15 %					982.27
TOTAL					7530.76
Rate for Each					7530.76
Say					7531.00

3.12.4 400 A, (Isc=35 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1578	400 A. TPN, TAP OFF Box for compact rising mains including all accessories	each	1.0	6378.75	6378.75
Total cost of materials					6378.75
Cartage @ 1 % of A1					63.79
LABOUR					

CHAPTER-3 : RISING MAINS & BUS TRUNKING

1001	Wireman	day	0.13	447.00	58.11
1007	Khallasasi	day	0.13	368.00	47.84
	TOTAL				6548.49
	OVERHEADS & PROFIT @ 15 %				982.27
	TOTAL				7530.76
	Rate for Each				7530.76
	Say				7531.00

3.12.5 500 A, (Isc=50 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1579	500 A. TPN, TAP OFF Box for compact rising mains including all accessories	each	1.0	9213.75	9213.75
	Total cost of materials				9213.75
	Cartage @ 1 % of A1				92.14
	LABOUR				
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasasi	day	0.17	368.00	62.56
	TOTAL				9444.44
	OVERHEADS & PROFIT @ 15 %				1416.67
	TOTAL				10861.11
	Rate for Each				10861.11
	Say				10861.00

3.12.6 630 A, (Isc=50 kA for 1 second)**Details of cost for one each**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1580	630 A. TPN, TAP OFF Box for compact rising mains including all accessories	each	1.0	9213.00	9213.00
	Total cost of materials				9213.00
	Cartage @ 1 % of A1				92.13
	LABOUR				
1001	Wireman	day	0.17	447.00	75.99
1007	Khallasasi	day	0.17	368.00	62.56
	TOTAL				9443.68
	OVERHEADS & PROFIT @ 15 %				1416.55
	TOTAL				10860.23
	Rate for Each				10860.23
	Say				10860.00

3.13 Supplying, installing by suspension on ceiling/along the wall, testing and commissioning of following capacity Sandwich Type Rising Mains for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq. cm at nominal current rating, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every meter, adopter box and copper flexible for joints, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required

3.13.1 400 A (Isc=25 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1581	400 A 25kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	7176.09	71760.90
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
Total cost of materials					72191.44
Cartage @ 1 % of A1					721.91
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					75725.85
OVERHEADS & PROFIT @ 15 %					11358.88
Cost for 10 meter					87084.73
Rate per meter					8708.47
Say					8708.00

3.13.2 500 A (Isc=30 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1582	500 A 30kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with				

CHAPTER-3 : RISING MAINS & BUS TRUNKING

	4 Nos aluminium bus bars	meter	10.0	7688.67	76886.70
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
	Total cost of materials				77317.24
	Cartage @ 1 % of A1				773.17
	LABOUR				
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
	TOTAL				80902.91
	OVERHEADS & PROFIT @ 15 %				12135.44
	Cost for 10 meter				93038.35
	Rate per meter				9303.84
	Say				9304.00

3.13.3 630 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1583	630 A 50kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	8315.16	83151.60
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
	Total cost of materials				83582.14
	Cartage @ 1 % of A1				835.82
	LABOUR				
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
	TOTAL				87230.46
	OVERHEADS & PROFIT @ 15 %				13084.57
	Cost for 10 meter				100315.03
	Rate per meter				10031.50
	Say				10032.00

3.13.4 800 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1584	800 A 50kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	9397.27	93972.70
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
Total cost of materials					94403.24
Cartage @ 1 % of A1					944.03
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					98159.77
OVERHEADS & PROFIT @ 15 %					14723.97
Cost for 10 meter					112883.74
Rate per meter					11288.37
Say					11288.00

3.13.5 1000 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1585	1000 A 50kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	10542.40	105424.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
Total cost of materials					105854.54
Cartage @ 1 % of A1					1058.55
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00

TOTAL	109725.59
OVERHEADS & PROFIT @ 15 %	16458.84
Cost for 10 meter	126184.43
Rate per meter	12618.44
Say	12618.00

3.13.6 1250 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1586	400 A 25kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	11789.30	117893.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
Total cost of materials					118323.54
Cartage @ 1 % of A1					1183.24
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					122319.28
OVERHEADS & PROFIT @ 15 %					18347.89
Cost for 10 meter					140667.17
Rate per meter					14066.72
Say					14067.00

3.13.7 1600 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1587	1600 A 50kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	14352.19	143521.90
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21

Total cost of materials					143952.44
Cartage @ 1 % of A1					1439.52
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					148204.46
OVERHEADS & PROFIT @ 15 %					22230.67
Cost for 10 meter					170435.13
Rate per meter					17043.51
Say					17044.00

3.13.8 2000 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1588	2000 A 50kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	17085.94	170859.40
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
Total cost of materials					171289.94
Cartage @ 1 % of A1					1712.90
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					175815.34
OVERHEADS & PROFIT @ 15 %					26372.30
Cost for 10 meter					202187.64
Rate per meter					20218.76
Say					20219.00

3.13.9 2500 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1589	2500 A 50kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	22063.64	220636.40
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
Total cost of materials					221066.94
Cartage @ 1 % of A1					2210.67
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
TOTAL					226090.11
OVERHEADS & PROFIT @ 15 %					33913.52
Cost for 10 meter					260003.63
Rate per meter					26000.36
Say					26000.00

3.13.10 3200 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1590	3200 A 50kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	24375.94	243759.40
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
Total cost of materials					244189.94
Cartage @ 1 % of A1					2441.90
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00

1007	Khallasi	day	3.50	368.00	1288.00
	TOTAL				249444.34
	OVERHEADS & PROFIT @ 15 %				37416.65
	Cost for 10 meter				286860.99
	Rate per meter				28686.10
	Say				28686.00

3.13.11 4000 A (Isc=50 kA for 1 second)**Details of cost for 10 meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1591	4000 A 50kA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 V, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.0	42522.34	425223.40
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	37.80	73.33
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	25.52	357.21
	Total cost of materials				425653.94
	Cartage @ 1 % of A1				4256.54
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1010	Mason, Grade 2	day	1.00	407.00	407.00
1007	Khallasi	day	3.50	368.00	1288.00
	TOTAL				432722.98
	OVERHEADS & PROFIT @ 15 %				64908.45
	Cost for 10 meter				497631.43
	Rate per meter				49763.14
	Say				49763.00

CHAPTER 4 – CABLE TRAYS

4.1 Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc. as required.

4.1.1 100 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 30 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2701	MS perforated cable tray painted with powder coating 100 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	140.63	4429.85
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	9.00	26.85	241.65
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.15m =3 @1.11kg/m = 3.33kg	kg	3.33	37.80	125.87
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					5917.37
Cartage @ 1 % of A1					59.17
LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					9076.54
OVERHEADS & PROFIT @ 15 %					1361.48
Cost for 30 Metre					10438.02
Rate per Metre					347.93
Say					348.00

4.1.2 150 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 30 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2702	MS perforated cable tray painted with powder coating 150 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	174.38	5492.97
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	9.00	34.65	311.85
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.2m =4 @1.11kg/m = 4.44kg	kg	4.44	37.80	167.83

2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					7092.65
Cartage @ 1 % of A1					70.93
LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					10263.58
OVERHEADS & PROFIT @ 15 %					1539.54
Cost for 30 Metre					11803.12
Rate per Metre					393.44
Say					393.00

4.1.3 225 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2703	MS perforated cable tray painted with powder coating 225 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	227.25	7158.38
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	9.00	35.52	319.67
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.25m = 5 @ 1.11kg/m = 5.55kg	kg	5.55	37.80	209.79
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					8807.84
Cartage @ 1 % of A1					88.08
LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					11995.92
OVERHEADS & PROFIT @ 15 %					1799.39
Cost for 30 Metre					13795.31
Rate per Metre					459.84
Say					460.00

4.1.4 300 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2704	MS perforated cable tray painted with powder coating 300 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	279.00	8788.50
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	9.00	35.52	319.67
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.35m = 7 @ 1.11kg/m = 7.77kg	kg	7.77	37.80	293.71
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					10521.88
Cartage @ 1 % of A1					105.22
LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					13727.10
OVERHEADS & PROFIT @ 15 %					2059.06
Cost for 30 Metre					15786.16
Rate per Metre					526.21
Say					526.00

4.1.5 375 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2705	MS perforated cable tray painted with powder coating 375 X 50 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	401.63	12651.35
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	9.00	38.98	350.82
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.425m = 8.5 @ 2.09kg/m = 17.77kg	kg	17.77	37.80	671.71
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					14793.88
Cartage @ 1 % of A1					147.94

LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					18041.82
OVERHEADS & PROFIT @ 15 %					2706.27
Cost for 30 Metre					20748.09
Rate per Metre					691.60
Say					692.00

4.1.6 450 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2706	MS perforated cable tray painted with powder coating 450 X 50 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	464.63	14635.85
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	9.00	45.91	413.19
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.5m = 10 @ 2.09kg/m = 20.9kg	kg	20.90	37.80	790.02
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.60
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					17139.66
Cartage @ 1 % of A1					171.40
LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					20411.06
OVERHEADS & PROFIT @ 15 %					3061.66
Cost for 30 Metre					23472.72
Rate per Metre					782.42
Say					782.00

4.1.7 600 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2707	MS perforated cable tray painted with powder coating 600 X 50 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	590.63	18604.85
2723	MS perforated cable tray Connector				

CHAPTER-4 : CABLE TRAYS

	600 X 50 X 2 mm	each	9.00	50.25	452.23
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.65m =13 @2.09kg/m = 27.17kg	kg	27.17	37.80	1027.03
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.60
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
	Total cost of materials				21464.71
	Cartage @ 1 % of A1				214.65
	LABOUR				
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				24779.36
	OVERHEADS & PROFIT @ 15 %				3716.90
	Cost for 30 Metre				28496.26
	Rate per Metre				949.88
	Say				950.00

4.1.8 300 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2708	MS perforated cable tray painted with powder coating 300 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	360.00	11340.00
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	9.00	38.98	350.82
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.35m =7 @1.11kg/m = 7.77kg	kg	7.77	37.80	293.71
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
	Total cost of materials				13184.53
	Cartage @ 1 % of A1				131.85
	LABOUR				
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				16416.38
	OVERHEADS & PROFIT @ 15 %				2462.46
	Cost for 30 Metre				18878.84
	Rate per Metre				629.29
	Say				629.00

4.1.9 375 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2709	MS perforated cable tray painted with powder coating 375 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	421.88	13289.22
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	9.00	45.05	405.41
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.425m = 8.5 @ 2.09kg/m = 17.77kg	kg	17.77	37.80	671.71
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					15566.34
Cartage @ 1 % of A1					155.66
LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallas	day	4.0	368.00	1472.00
TOTAL					18822.00
OVERHEADS & PROFIT @ 15 %					2823.30
Cost for 30 Metre					21645.30
Rate per Metre					721.51
Say					722.00

4.1.10 450 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2710	MS perforated cable tray painted with powder coating 450 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	486.00	15309.00
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	9.00	49.38	444.41
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.5m = 10 @ 2.09kg/m = 20.9kg	kg	20.90	37.80	790.02
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					17663.43
Cartage @ 1 % of A1					176.63
LABOUR					

CHAPTER-4 : CABLE TRAYS

1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
TOTAL					21715.06
OVERHEADS & PROFIT @ 15 %					3257.26
Cost for 30 Metre					24972.32
Rate per Metre					832.41
Say					832.00

4.1.11 600 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2711	MS perforated cable tray painted with powder coating 600 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	613.13	19313.60
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	9.00	54.14	487.26
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.65m = 13 @ 2.09kg/m = 27.17kg	kg	27.17	37.80	1027.03
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.60
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					22208.49
Cartage @ 1 % of A1					222.08
LABOUR					
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
TOTAL					26305.57
OVERHEADS & PROFIT @ 15 %					3945.84
Cost for 30 Metre					30251.41
Rate per Metre					1008.38
Say					1008.00

4.1.12 750 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2712	MS perforated cable tray painted with powder coating 750 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	759.38	23920.47
2728	MS perforated cable tray Connector				

	750 X 62.5 X 2 mm	each	9.00	60.20	541.80
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.8m =16 @2.09kg/m = 33.44kg	kg	33.44	37.80	1264.03
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.60
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
	Total cost of materials				27106.90
	Cartage @ 1 % of A1				271.07
	LABOUR				
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
	TOTAL				31252.97
	OVERHEADS & PROFIT @ 15 %				4687.95
	Cost for 30 Metre				35940.92
	Rate per Metre				1198.03
	Say				1198.00

4.1.13 900 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2713	MS perforated cable tray painted with powder coating 900 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	888.75	27995.63
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	9.00	63.24	569.15
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.95m =19 @2.59kg/m = 49.21kg	kg	49.21	37.80	1860.14
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
2803	MS Suspender 10 mm dia 0.75m long	each	40.00	35.91	1436.40
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
	Total cost of materials				32221.32
	Cartage @ 1 % of A1				322.21
	LABOUR				
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
	TOTAL				36418.53
	OVERHEADS & PROFIT @ 15 %				5462.78
	Cost for 30 Metre				41881.31
	Rate per Metre				1396.04
	Say				1396.00

4.1.14 600 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2714	MS perforated cable tray painted with powder coating 600 X 75 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	632.25	19915.88
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	9.00	54.14	487.26
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.65m = 13 @ 2.09kg/m = 27.17kg	kg	27.17	37.80	1027.03
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.60
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					22810.77
Cartage @ 1 % of A1					228.11
LABOUR					
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallas	day	5.00	368.00	1840.00
TOTAL					26913.88
OVERHEADS & PROFIT @ 15 %					4037.08
Cost for 30 Metre					30950.96
Rate per Metre					1031.70
Say					1032.00

4.1.15 750 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2715	MS perforated cable tray painted with powder coating 750 X 75 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	781.88	24629.22
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	9.00	60.20	541.80
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.8m = 16 @ 2.09kg/m = 33.44kg	kg	33.44	37.80	1264.03
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.60
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					27815.65
Cartage @ 1 % of A1					278.16
LABOUR					

1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
TOTAL					31968.81
OVERHEADS & PROFIT @ 15 %					4795.32
Cost for 30 Metre					36764.13
Rate per Metre					1225.47
Say					1225.00

4.1.16 900 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2716	MS perforated cable tray painted with powder coating 900 X 75 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	911.25	28704.38
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	9.00	63.24	569.15
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.95m = 19 @ 2.59kg/m = 49.21kg	kg	49.21	37.80	1860.14
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
2803	MS Suspender 10 mm dia 0.75m long	each	40.00	35.91	1436.40
2936	Painting with primer and finish paint	L.S.	20.00	4.00	80.00
Total cost of materials					32930.07
Cartage @ 1 % of A1					329.30
LABOUR					
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
TOTAL					37134.37
OVERHEADS & PROFIT @ 15 %					5570.15
Cost for 30 Metre					42704.52
Rate per Metre					1423.48
Say					1423.00

4.2 Supplying and installing following size of perforated painted with powder coating M.S. cable trays bends with perforation not more than 17.5%,, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc. as required.

4.2.1 100 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2733	MS perforated cable tray Bend				

CHAPTER-4 : CABLE TRAYS

	100 X 50 X 1.6 mm	each	1.00	354.38	354.38
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	26.85	26.85
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.15m = 0.15 @ 1.11kg/m = 0.17kg	kg	0.17	37.80	6.43
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				443.66
	Cartage @ 1 % of A1				4.44
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasai	day	0.10	368.00	36.80
	TOTAL				525.60
	OVERHEADS & PROFIT @ 15 %				78.84
	TOTAL				604.44
	Rates for each				604.44
	Say				604.00

4.2.2 150 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2734	MS perforated cable tray Bend 150 X 50 X 1.6 mm	each	1.00	438.75	438.75
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	34.65	34.65
2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.22	37.80	8.32
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				537.72
	Cartage @ 1 % of A1				5.38
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasai	day	0.10	368.00	36.80
	TOTAL				620.60
	OVERHEADS & PROFIT @ 15 %				93.09
	TOTAL				713.69
	Rates for each				713.69
	Say				714.00

4.2.3 225 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2735	MS perforated cable tray Bend 225 X 50 X 1.6 mm	each	1.00	568.13	568.13
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	35.52	35.52
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.25m = 0.25 @ 1.11kg/m = 0.28kg	kg	0.28	37.80	10.58
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					670.23
Cartage @ 1 % of A1					6.70
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					754.43
OVERHEADS & PROFIT @ 15 %					113.16
TOTAL					867.59
Rates for each					867.59
Say					868.00

4.2.4 300 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2736	MS perforated cable tray Bend 300 X 50 X 1.6 mm	each	1.00	697.50	697.50
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	35.52	35.52
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.35m = 0.35 @ 1.11kg/m = 0.39kg	kg	0.39	37.80	14.74
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					803.76
Cartage @ 1 % of A1					8.04
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					889.30
OVERHEADS & PROFIT @ 15 %					133.39
TOTAL					1022.69
Rates for each					1022.69
Say					1023.00

4.2.5 375 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2737	MS perforated cable tray Bend 375 X 50 X 2 mm	each	1.00	1006.88	1006.88
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	38.98	38.98
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m = 0.43 @ 2.09kg/m = 0.9kg	kg	0.90	37.80	34.02
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1135.88
Cartage @ 1 % of A1					11.36
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallas	day	0.10	368.00	36.80
TOTAL					1224.74
OVERHEADS & PROFIT @ 15 %					183.71
TOTAL					1408.45
Rates for each					1408.45
Say					1408.00

4.2.6 450 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2738	MS perforated cable tray Bend 450 X 50 X 2 mm	each	1.00	1164.38	1164.38
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	45.91	45.91
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m = 0.5 @ 2.09kg/m = 1.05kg	kg	1.05	37.80	39.69
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1315.01
Cartage @ 1 % of A1					13.15
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35

1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1405.66
	OVERHEADS & PROFIT @ 15 %				210.85
	TOTAL				1616.51
	Rates for each				1616.51
	Say				1617.00

4.2.7 600 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2739	MS perforated cable tray Bend 600 X 50 X 2 mm	each	1.00	1479.38	1479.38
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	50.25	50.25
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m = 0.65 @ 2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1650.07
	Cartage @ 1 % of A1				16.50
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1744.07
	OVERHEADS & PROFIT @ 15 %				261.61
	TOTAL				2005.68
	Rates for each				2005.68
	Say				2006.00

4.2.8 300 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2740	MS perforated cable tray Bend 300 X 62.5 X 2 mm	each	1.00	900.00	900.00
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	38.98	38.98
2804	25 mm X 25 mm X 3 mm angle iron = 0.35 @ 1.11kg/m = 0.39kg	kg	0.39	37.80	14.74
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00

CHAPTER-4 : CABLE TRAYS

2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1013.72
	Cartage @ 1 % of A1				10.14
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1101.36
	OVERHEADS & PROFIT @ 15 %				165.20
	TOTAL				1266.56
	Rates for each				1266.56
	Say				1267.00

4.2.9 375 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2741	MS perforated cable tray Bend 375 X 62.5 X 2 mm	each	1.00	1057.50	1057.50
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	45.05	45.05
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m = 0.43 @ 2.09kg/m = 0.9kg	kg	0.90	37.80	34.02
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1196.57
	Cartage @ 1 % of A1				11.97
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1286.04
	OVERHEADS & PROFIT @ 15 %				192.91
	TOTAL				1478.95
	Rates for each				1478.95
	Say				1479.00

4.2.10 450 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2742	MS perforated cable tray Bend 450 X 62.5 X 2 mm	each	1.00	1215.00	1215.00

2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	49.38	49.38
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m = @2.09kg/m = 1.05kg	kg	1.05	37.80	39.69
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1360.07
Cartage @ 1 % of A1					13.60
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					1497.67
OVERHEADS & PROFIT @ 15 %					224.65
TOTAL					1722.32
Rates for each					1722.32
Say					1722.00

4.2.11 600 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2743	MS perforated cable tray Bend 600 X 62.5 X 2 mm	each	1.00	1535.63	1535.63
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	54.14	54.14
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m = 0.65 @ 2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1710.21
Cartage @ 1 % of A1					17.10
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					1851.31
OVERHEADS & PROFIT @ 15 %					277.70
TOTAL					2129.01
Rates for each					2129.01
Say					2129.00

4.2.12 750 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2744	MS perforated cable tray Bend 750 X 62.5 X 2 mm	each	1.00	1901.25	1901.25
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	60.20	60.20
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	1.67	37.80	63.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2093.61
Cartage @ 1 % of A1					20.94
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					2238.55
OVERHEADS & PROFIT @ 15 %					335.78
TOTAL					2574.33
Rates for each					2574.33
Say					2574.00

4.2.13 900 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2745	MS perforated cable tray Bend 900 X 62.5 X 2 mm	each	1.00	2221.88	2221.88
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	63.24	63.24
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	37.80	92.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2447.14
Cartage @ 1 % of A1					24.47
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56

1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					2595.61
OVERHEADS & PROFIT @ 15 %					389.34
TOTAL					2984.95
Rates for each					2984.95
Say					2985.00

4.2.14 600 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2746	MS perforated cable tray Bend 600 X 75 X 2 mm	each	1.00	1580.63	1580.63
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	54.14	54.14
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1755.21
Cartage @ 1 % of A1					17.55
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					1896.76
OVERHEADS & PROFIT @ 15 %					284.51
TOTAL					2181.27
Rates for each					2181.27
Say					2181.00

4.2.15 750 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2747	MS perforated cable tray Bend 750 X 75 X 2 mm	each	1.00	1957.50	1957.50
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	60.20	60.20
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	1.67	37.80	63.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00

CHAPTER-4 : CABLE TRAYS

2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				2149.86
	Cartage @ 1 % of A1				21.50
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2295.36
	OVERHEADS & PROFIT @ 15 %				344.30
	TOTAL				2639.66
	Rates for each				2639.66
	Say				2640.00

4.2.16 900 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2748	MS perforated cable tray Bend 900 X 75 X 2 mm	each	1.00	2278.13	2278.13
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	63.24	63.24
2806	35 mm X 35 mm X 5 mm angle iron = 1 X 0.95m = 0.95 @ 2.59kg/m = 2.46kg	kg	2.46	37.80	92.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				2503.39
	Cartage @ 1 % of A1				25.03
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2652.42
	OVERHEADS & PROFIT @ 15 %				397.86
	TOTAL				3050.28
	Rates for each				3050.28
	Say				3050.00

4.3 Supplying and installing following size of perforated painted with powder coating M.S. cable trays Tee with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc. as required.

4.3.1 100 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2765	MS perforated cable tray Tee 100 X 50 X 1.6 mm	each	1.00	421.88	421.88
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	26.85	26.85
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.15m = 0.15 @ 1.11kg/m = 0.17kg	kg	0.17	37.80	6.43
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					511.16
Cartage @ 1 % of A1					5.11
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					593.77
OVERHEADS & PROFIT @ 15 %					89.06
TOTAL					682.83
Rates for each					682.83
Say					683.00

4.3.2 150 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2766	MS perforated cable tray Tee 150 X 50 X 1.6 mm	each	1.00	523.13	523.13
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	34.65	34.65
2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.22	37.80	8.32
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					622.10
Cartage @ 1 % of A1					6.22
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80

TOTAL	705.82
OVERHEADS & PROFIT @ 15 %	105.87
TOTAL	811.69
Rates for each	811.69
Say	812.00

4.3.3 225 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2767	MS perforated cable tray Tee 225 X 50 X 1.6 mm	each	1.00	680.63	680.63
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	35.52	35.52
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.25m = 0.25 @ 1.11kg/m = 0.28kg	kg	0.28	37.80	10.58
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					782.73
Cartage @ 1 % of A1					7.83
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					868.06
OVERHEADS & PROFIT @ 15 %					130.21
TOTAL					998.27
Rates for each					998.27
Say					998.00

4.3.4 300 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2768	MS perforated cable tray Tee 300 X 50 X 1.6 mm	each	1.00	838.13	838.13
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	35.52	35.52
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.35m = 0.35 @ 1.11kg/m = 0.39kg	kg	0.39	37.80	14.74
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00

Total cost of materials				944.39
Cartage @ 1 % of A1				9.44
LABOUR				
1005	Fitter, Grade 2	day	0.05 407.00	20.35
1010	Mason, Grade 2	day	0.05 407.00	20.35
1007	Khallasi	day	0.10 368.00	36.80
TOTAL				1031.33
OVERHEADS & PROFIT @ 15 %				154.70
TOTAL				1186.03
Rates for each				1186.03
Say				1186.00

4.3.5 375 mm width X 50 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2769	MS perforated cable tray Tee 375 X 50 X 2 mm	each	1.00	1203.75	1203.75
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	38.98	38.98
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m = 0.43 @ 2.09kg/m = 0.9kg	kg	0.90	37.80	34.02
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1332.75
Cartage @ 1 % of A1					13.33
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1423.58
OVERHEADS & PROFIT @ 15 %					213.54
TOTAL					1637.12
Rates for each					1637.12
Say					1637.00

4.3.6 450 mm width X 50 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2770	MS perforated cable tray Tee 450 X 50 X 2 mm	each	1.00	1395.00	1395.00

2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	45.91	45.91
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m =0.5 @2.09kg/m = 1.05kg	kg	1.05	37.80	39.69
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1545.63
Cartage @ 1 % of A1					15.46
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1638.59
OVERHEADS & PROFIT @ 15 %					245.79
TOTAL					1884.38
Rates for each					1884.38
Say					1884.00

4.3.7 600 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2771	MS perforated cable tray Tee 600 X 50 X 2 mm	each	1.00	1771.88	1771.88
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	50.25	50.25
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1942.57
Cartage @ 1 % of A1					19.43
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					2039.50
OVERHEADS & PROFIT @ 15 %					305.92
TOTAL					2345.42
Rates for each					2345.42
Say					2345.00

4.3.8 300 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2772	MS perforated cable tray Tee 300 X 62.5 X 2 mm	each	1.00	1080.00	1080.00
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	38.98	38.98
2804	25 mm X 25 mm X 3 mm angle iron = 0.35 @1.11kg/m = 0.39kg	kg	0.39	37.80	14.74
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1193.72
Cartage @ 1 % of A1					11.94
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1283.16
OVERHEADS & PROFIT @ 15 %					192.47
TOTAL					1475.63
Rates for each					1475.63
Say					1476.00

4.3.9 375 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2773	MS perforated cable tray Tee 375 X 62.5 X 2 mm	each	1.00	1265.63	1265.63
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	45.05	45.05
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	0.90	37.80	34.02
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1404.70
Cartage @ 1 % of A1					14.05
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35

CHAPTER-4 : CABLE TRAYS

1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1496.25
	OVERHEADS & PROFIT @ 15 %				224.44
	TOTAL				1720.69
	Rates for each				1720.69
	Say				1721.00

4.3.10 450 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2774	MS perforated cable tray Tee 450 X 62.5 X 2 mm	each	1.00	1456.88	1456.88
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	49.38	49.38
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m = @2.09kg/m = 1.05kg	kg	1.05	37.80	39.69
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1601.95
	Cartage @ 1 % of A1				16.02
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				1741.97
	OVERHEADS & PROFIT @ 15 %				261.30
	TOTAL				2003.27
	Rates for each				2003.27
	Say				2003.00

4.3.11 600 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2775	MS perforated cable tray Tee 600 X 62.5 X 2 mm	each	1.00	1839.38	1839.38
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	54.14	54.14
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m = 0.65 @ 2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03

2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				2013.96
	Cartage @ 1 % of A1				20.14
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2158.10
	OVERHEADS & PROFIT @ 15 %				323.71
	TOTAL				2481.81
	Rates for each				2481.81
	Say				2482.00

4.3.12 750 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2776	MS perforated cable tray Tee 750 X 62.5 X 2 mm	each	1.00	2278.13	2278.13
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	60.20	60.20
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m = 0.8 @ 2.09kg/m = 1.67kg	kg	1.67	37.80	63.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				2470.49
	Cartage @ 1 % of A1				24.70
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2619.19
	OVERHEADS & PROFIT @ 15 %				392.88
	TOTAL				3012.07
	Rates for each				3012.07
	Say				3012.00

4.3.13 900 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2777	MS perforated cable tray Tee 900 X 62.5 X 2 mm	each	1.00	2666.25	2666.25

CHAPTER-4 : CABLE TRAYS

2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	63.24	63.24
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	37.80	92.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2891.51
Cartage @ 1 % of A1					28.92
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					3044.43
OVERHEADS & PROFIT @ 15 %					456.66
TOTAL					3501.09
Rates for each					3501.09
Say					3501.00

4.3.14 600 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2778	MS perforated cable tray Tee 600 X 75 X 2 mm	each	1.00	1901.25	1901.25
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	54.14	54.14
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2075.83
Cartage @ 1 % of A1					20.76
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					2220.59
OVERHEADS & PROFIT @ 15 %					333.09
TOTAL					2553.68
Rates for each					2553.68
Say					2554.00

4.3.15 750 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2779	MS perforated cable tray Tee 750 X 75 X 2 mm	each	1.00	2317.50	2317.50
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	60.20	60.20
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m = 0.8 @ 2.09kg/m = 1.67kg	kg	1.67	37.80	63.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2509.86
Cartage @ 1 % of A1					25.10
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					2658.96
OVERHEADS & PROFIT @ 15 %					398.84
TOTAL					3057.80
Rates for each					3057.80
Say					3058.00

4.3.16 900 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2780	MS perforated cable tray Tee 900 X 75 X 2 mm	each	1.00	2729.25	2729.25
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	63.24	63.24
2806	35 mm X 35 mm X 5 mm angle iron = 1 X 0.95m = 0.95 @ 2.59kg/m = 2.46kg	kg	2.46	37.80	92.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2954.51
Cartage @ 1 % of A1					29.55
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56

1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				3108.06
	OVERHEADS & PROFIT @ 15 %				466.20
	TOTAL				3574.26
	Rates for each				3574.26
	Say				3574.00

4.4 Supplying and installing following size of perforated painted with powder coating M.S. cable trays Cross Member with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc. as required.

4.4.1 100 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2781	MS perforated cable tray Cross member 100 X 50 X 1.6 mm	each	1.00	421.88	421.88
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	26.85	26.85
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.15m = 0.15 @ 1.11kg/m = 0.17kg	kg	0.17	37.80	6.43
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				511.16
	Cartage @ 1 % of A1				5.11
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				593.77
	OVERHEADS & PROFIT @ 15 %				89.06
	TOTAL				682.83
	Rates for each				682.83
	Say				683.00

4.4.2 150 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2782	MS perforated cable tray Cross member 150 X 50 X 1.6 mm	each	1.00	523.13	523.13
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	34.65	34.65
2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.22	37.80	8.32

2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				622.10
	Cartage @ 1 % of A1				6.22
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				705.82
	OVERHEADS & PROFIT @ 15 %				105.87
	TOTAL				811.69
	Rates for each				811.69
	Say				812.00

4.4.3 225 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2783	MS perforated cable tray Cross member 225 X 50 X 1.6 mm	each	1.00	680.63	680.63
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	35.52	35.52
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.25m = 0.25 @ 1.11kg/m = 0.28kg	kg	0.28	37.80	10.58
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				782.73
	Cartage @ 1 % of A1				7.83
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				868.06
	OVERHEADS & PROFIT @ 15 %				130.21
	TOTAL				998.27
	Rates for each				998.27
	Say				998.00

4.4.4 300 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2784	MS perforated cable tray Cross member 300 X 50 X 1.6 mm	each	1.00	838.13	838.13
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	35.52	35.52
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.35m = 0.35 @ 1.11kg/m = 0.39kg	kg	0.39	37.80	14.74
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					944.39
Cartage @ 1 % of A1					9.44
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1031.33
OVERHEADS & PROFIT @ 15 %					154.70
TOTAL					1186.03
Rates for each					1186.03
Say					1186.00

4.4.5 375 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2785	MS perforated cable tray Cross member 375 X 50 X 2 mm	each	1.00	1203.75	1203.75
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	38.98	38.98
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m = 0.43 @ 2.09kg/m = 0.9kg	kg	0.90	37.80	34.02
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1332.75
Cartage @ 1 % of A1					13.33
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35

1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1423.58
	OVERHEADS & PROFIT @ 15 %				213.54
	TOTAL				1637.12
	Rates for each				1637.12
	Say				1637.00

4.4.6 450 mm width X 50 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2786	MS perforated cable tray Cross member 450 X 50 X 2 mm	each	1.00	1395.00	1395.00
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	45.91	45.91
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m = 0.5 @ 2.09kg/m = 1.05kg	kg	1.05	37.80	39.69
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1545.63
	Cartage @ 1 % of A1				15.46
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1638.59
	OVERHEADS & PROFIT @ 15 %				245.79
	TOTAL				1884.38
	Rates for each				1884.38
	Say				1884.00

4.4.7 600 mm width X 50 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2787	MS perforated cable tray Cross member 600 X 50 X 2 mm	each	1.00	1771.88	1771.88
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	50.25	50.25
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m = 0.65 @ 2.09kg/m = 1.358kg	kg	1.358	37.80	51.33
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03

CHAPTER-4 : CABLE TRAYS

2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1942.49
	Cartage @ 1 % of A1				19.42
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				2039.41
	OVERHEADS & PROFIT @ 15 %				305.91
	TOTAL				2345.32
	Rates for each				2345.32
	Say				2345.00

4.4.8 300 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2788	MS perforated cable tray Cross member 300 X 62.5 X 2 mm	each	1.00	1080.00	1080.00
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	38.98	38.98
2804	25 mm X 25 mm X 3 mm angle iron = 0.35 @ 1.11kg/m = 0.39kg	kg	0.39	37.80	14.74
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1193.72
	Cartage @ 1 % of A1				11.94
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1283.16
	OVERHEADS & PROFIT @ 15 %				192.47
	TOTAL				1475.63
	Rates for each				1475.63
	Say				1476.00

4.4.9 375 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2789	MS perforated cable tray Cross member 375 X 62.5 X 2 mm	each	1.00	1265.63	1265.63

2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	45.05	45.05
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m = 0.43 @ 2.09kg/m = 0.9kg	kg	0.90	37.80	34.02
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1404.70
Cartage @ 1 % of A1					14.05
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallas	day	0.10	368.00	36.80
TOTAL					1496.25
OVERHEADS & PROFIT @ 15 %					224.44
TOTAL					1720.69
Rates for each					1720.69
Say					1721.00

4.4.10 450 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2790	MS perforated cable tray Cross member 450 X 62.5 X 2 mm	each	1.00	1456.88	1456.88
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	49.38	49.38
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m = @ 2.09kg/m = 1.05kg	kg	1.05	37.80	39.69
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1601.95
Cartage @ 1 % of A1					16.02
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallas	day	0.16	368.00	58.88
TOTAL					1741.97
OVERHEADS & PROFIT @ 15 %					261.30
TOTAL					2003.27
Rates for each					2003.27
Say					2003.00

4.4.11 600 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2791	MS perforated cable tray Cross member 600 X 62.5 X 2 mm	each	1.00	1839.38	1839.38
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	54.14	54.14
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m = 0.65 @ 2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2013.96
Cartage @ 1 % of A1					20.14
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					2158.10
OVERHEADS & PROFIT @ 15 %					323.71
TOTAL					2481.81
Rates for each					2481.81
Say					2482.00

4.4.12 750 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2792	MS perforated cable tray Cross member 750 X 62.5 X 2 mm	each	1.00	2278.13	2278.13
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	60.20	60.20
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m = 0.8 @ 2.09kg/m = 1.67kg	kg	1.67	37.80	63.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2470.49
Cartage @ 1 % of A1					24.70
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56

1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2619.19
	OVERHEADS & PROFIT @ 15 %				392.88
	TOTAL				3012.07
	Rates for each				3012.07
	Say				3012.00

4.4.13 900 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2793	MS perforated cable tray Cross member 900 X 62.5 X 2 mm	each	1.00	2666.25	2666.25
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	63.24	63.24
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	37.80	92.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				2891.51
	Cartage @ 1 % of A1				28.92
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				3044.43
	OVERHEADS & PROFIT @ 15 %				456.66
	TOTAL				3501.09
	Rates for each				3501.09
	Say				3501.00

4.4.14 600 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2794	MS perforated cable tray Cross member 600 X 75 X 2 mm	each	1.00	1901.25	1901.25
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	54.14	54.14
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03

CHAPTER-4 : CABLE TRAYS

2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				2075.83
	Cartage @ 1 % of A1				20.76
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasasi	day	0.16	368.00	58.88
	TOTAL				2220.59
	OVERHEADS & PROFIT @ 15 %				333.09
	TOTAL				2553.68
	Rates for each				2553.68
	Say				2554.00

4.4.15 750 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2795	MS perforated cable tray Cross member 750 X 75 X 2 mm	each	1.00	2317.50	2317.50
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	60.20	60.20
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m = 0.8 @ 2.09kg/m = 1.67kg	kg	1.67	37.80	63.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				2509.86
	Cartage @ 1 % of A1				25.10
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasasi	day	0.16	368.00	58.88
	TOTAL				2658.96
	OVERHEADS & PROFIT @ 15 %				398.84
	TOTAL				3057.80
	Rates for each				3057.80
	Say				3058.00

4.4.16 900 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2796	MS perforated cable tray Cross member 900 X 75 X 2 mm	each	1.00	2729.25	2729.25

2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	63.24	63.24
2806	35 mm X 35 mm X 5 mm angle iron = 1 X 0.95m = 0.95 @ 2.59kg/m = 2.46kg	kg	2.46	37.80	92.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2954.51
Cartage @ 1 % of A1					29.55
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallas	day	0.16	368.00	58.88
TOTAL					3108.06
OVERHEADS & PROFIT @ 15 %					466.20
TOTAL					3574.26
Rates for each					3574.26
Say					3574.00

4.5 Supplying and installing following size of perforated painted with powder coating M.S. cable trays Reducer with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc. as required.

4.5.1 100 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2749	MS perforated cable tray Reducer 100 X 50 X 1.6 mm	each	1.00	402.81	402.81
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	26.85	26.85
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.15m = 0.15 @ 1.11kg/m = 0.17kg	kg	0.17	37.80	6.43
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					492.09
Cartage @ 1 % of A1					4.92
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallas	day	0.10	368.00	36.80
TOTAL					574.51
OVERHEADS & PROFIT @ 15 %					86.17

TOTAL	660.68
Rates for each	660.68
Say	661.00

4.5.2 150 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2750	MS perforated cable tray Reducer 150 X 50 X 1.6 mm	each	1.00	490.30	490.30
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	34.65	34.65
2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.22	37.80	8.32
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					589.27
Cartage @ 1 % of A1					5.89
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					672.66
OVERHEADS & PROFIT @ 15 %					100.90
TOTAL					773.56
Rates for each					773.56
Say					774.00

4.5.3 225 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2751	MS perforated cable tray Reducer 225 X 50 X 1.6 mm	each	1.00	648.82	648.82
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	35.52	35.52
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.25m = 0.25 @ 1.11kg/m = 0.28kg	kg	0.28	37.80	10.58
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					754.92
Cartage @ 1 % of A1					7.55

LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					839.97
OVERHEADS & PROFIT @ 15 %					126.00
TOTAL					965.97
Rates for each					965.97
Say					966.00

4.5.4 300 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2752	MS perforated cable tray Reducer 300 X 50 X 1.6 mm	each	1.00	805.62	805.62
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	35.52	35.52
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.35m = 0.35 @ 1.11kg/m = 0.39kg	kg	0.39	37.80	14.74
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					915.88
Cartage @ 1 % of A1					9.16
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1002.54
OVERHEADS & PROFIT @ 15 %					150.38
TOTAL					1152.92
Rates for each					1152.92
Say					1153.00

4.5.5 375 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2753	MS perforated cable tray Reducer 375 X 50 X 2 mm	each	1.00	1024.77	1024.77
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	38.98	38.98

CHAPTER-4 : CABLE TRAYS

2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	0.90	37.80	34.02
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1157.77
	Cartage @ 1 % of A1				11.58
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1246.85
	OVERHEADS & PROFIT @ 15 %				187.03
	TOTAL				1433.88
	Rates for each				1433.88
	Say				1434.00

4.5.6 450 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2754	MS perforated cable tray Reducer 450 X 50 X 2 mm	each	1.00	1198.02	1198.02
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	45.91	45.91
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m =0.5 @2.09kg/m = 1.05kg	kg	1.05	37.80	39.69
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1352.65
	Cartage @ 1 % of A1				13.53
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1443.68
	OVERHEADS & PROFIT @ 15 %				216.55
	TOTAL				1660.23
	Rates for each				1660.23
	Say				1660.00

4.5.7 600 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2755	MS perforated cable tray Reducer 600 X 50 X 2 mm	each	1.00	1491.69	1491.69
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	50.25	50.25
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m = 0.65 @ 2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1662.38
Cartage @ 1 % of A1					16.62
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1756.50
OVERHEADS & PROFIT @ 15 %					263.48
TOTAL					2019.98
Rates for each					2019.98
Say					2020.00

4.5.8 300 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2756	MS perforated cable tray Reducer 300 X 62.5 X 2 mm	each	1.00	918.23	918.23
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	38.98	38.98
2804	25 mm X 25 mm X 3 mm angle iron = 0.35 @ 1.11kg/m = 0.39kg	kg	0.39	37.80	14.74
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1031.95
Cartage @ 1 % of A1					10.32
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35

CHAPTER-4 : CABLE TRAYS

1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1119.77
	OVERHEADS & PROFIT @ 15 %				167.97
	TOTAL				1287.74
	Rates for each				1287.74
	Say				1288.00

4.5.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2757	MS perforated cable tray Reducer 375 X 62.5 X 2 mm	each	1.00	1080.21	1080.21
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	45.05	45.05
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m = 0.43 @ 2.09kg/m = 0.9kg	kg	0.90	37.80	34.02
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1219.28
	Cartage @ 1 % of A1				12.19
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1308.97
	OVERHEADS & PROFIT @ 15 %				196.35
	TOTAL				1505.32
	Rates for each				1505.32
	Say				1505.00

4.5.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2758	MS perforated cable tray Reducer 450 X 62.5 X 2 mm	each	1.00	1243.94	1243.94
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	49.38	49.38
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m = @ 2.09kg/m = 1.05kg	kg	1.05	37.80	39.69
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00

2801	MS Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1389.01
Cartage @ 1 % of A1					13.89
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					1526.90
OVERHEADS & PROFIT @ 15 %					229.04
TOTAL					1755.94
Rates for each					1755.94
Say					1756.00

4.5.11 600 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2759	MS perforated cable tray Reducer 600 X 62.5 X 2 mm	each	1.00	1573.11	1573.11
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	54.14	54.14
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m = 0.65 @ 2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1747.69
Cartage @ 1 % of A1					17.48
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					1889.17
OVERHEADS & PROFIT @ 15 %					283.38
TOTAL					2172.55
Rates for each					2172.55
Say					2173.00

4.5.12 750 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2760	MS perforated cable tray Reducer 750 X 62.5 X 2 mm	each	1.00	1868.82	1868.82
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	60.20	60.20
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m = 0.8 @ 2.09kg/m = 1.67kg	kg	1.67	37.80	63.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2061.18
Cartage @ 1 % of A1					20.61
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					2205.79
OVERHEADS & PROFIT @ 15 %					330.87
TOTAL					2536.66
Rates for each					2536.66
Say					2537.00

4.5.13 900 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2761	MS perforated cable tray Reducer 900 X 62.5 X 2 mm	each	1.00	2230.59	2230.59
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	63.24	63.24
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.95m = 0.95 @ 2.59kg/m = 2.46kg	kg	2.46	37.80	92.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					2455.85
Cartage @ 1 % of A1					24.56
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56

1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2604.41
	OVERHEADS & PROFIT @ 15 %				390.66
	TOTAL				2995.07
	Rates for each				2995.07
	Say				2995.00

4.5.14 600 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2762	MS perforated cable tray Reducer 600 X 75 X 2 mm	each	1.00	1626.82	1626.82
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	54.14	54.14
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m = 0.65 @ 2.09kg/m = 1.36kg	kg	1.36	37.80	51.41
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1801.40
	Cartage @ 1 % of A1				18.01
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				1943.41
	OVERHEADS & PROFIT @ 15 %				291.51
	TOTAL				2234.92
	Rates for each				2234.92
	Say				2235.00

4.5.15 750 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2763	MS perforated cable tray Reducer 750 X 75 X 2 mm	each	1.00	1915.28	1915.28
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	60.20	60.20
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m = 0.8 @ 2.09kg/m = 1.67kg	kg	1.67	37.80	63.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00

2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				2107.64
	Cartage @ 1 % of A1				21.08
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2252.72
	OVERHEADS & PROFIT @ 15 %				337.91
	TOTAL				2590.63
	Rates for each				2590.63
	Say				2591.00

4.5.16 900 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2764	MS perforated cable tray Reducer 900 X 75 X 2 mm	each	1.00	2284.30	2284.30
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	63.24	63.24
2806	35 mm X 35 mm X 5 mm angle iron = 1 X 0.95m = 0.95 @ 2.59kg/m = 2.46kg	kg	2.46	37.80	92.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.03
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				2509.56
	Cartage @ 1 % of A1				25.10
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2658.66
	OVERHEADS & PROFIT @ 15 %				398.79
	TOTAL				3057.45
	Rates for each				3057.45
	Say				3057.00

- 4.6** Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (galvanization thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.

4.6.1 100 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3701	Perforated cable tray Hot Dipped Galvanised Iron 100mm X 50mm X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	213.75	6733.13
3717	Perforated cable tray connector Hot Dipped Galvanised Iron 100mm X 50mm X 1.6 mm	each	9.00	33.75	303.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/ angle iron/ channel = 20x0.15m = 3.0m @ 1.11 kg/m = 3.33kg	kg	3.33	36.40	121.21
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
Total cost of materials					8198.09
Cartage @ 1 %					81.98
LABOUR					
1005	Fitter, Grade 2	407.00	day	2.00	814.00
1010	Mason, Grade 2	407.00	day	2.00	814.00
1007	Khallasi	368.00	day	4.00	1472.00
TOTAL					11380.07
Add 15 % Over Head & Contractor Profit					1707.01
Cost for 30 Metre					13087.08
Rate per Metre					436.24
Say					436.00

4.6.2 150 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3702	Perforated cable tray Hot Dipped Galvanised Iron 150 X 50 X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	267.75	8434.13
3718	Perforated cable tray Connector Hot Dipped Galvanised Iron 150 X 50 X 1.6 mm	each	9.00	33.75	303.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 20x0.2m = 4.0m @ 1.11 kg/m = 4.44kg	kg	4.44	36.40	161.62
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
Total cost of materials					9939.49
Cartage @ 1 %					99.39
LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00

CHAPTER-4 : CABLE TRAYS

1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				13138.89
	Add 15 % Over Head & Contractor Profit				1970.83
	Cost for 30 Metre				15109.72
	Rate per Metre				503.66
	Say				504.00

4.6.3 225 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3703	perforated cable tray Hot Dipped Galvanised iron 225 X 50 X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	348.75	10985.63
3719	perforated cable tray Connector Hot Dipped Galvanised Iron 225 X 50 X 1.6 mm	each	9.00	33.75	303.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/ angle iron/ channel = 20x0.25m = 5.0m @ 1.11 kg/m = 5.55kg	kg	5.55	36.40	202.02
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
	Total cost of materials				12531.40
	Cartage @ 1 %				125.31
LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				15756.71
	Add 15 % Over Head & Contractor Profit				2363.51
	Cost for 30 Metre				18120.22
	Rate per Metre				604.01
	Say				604.00

4.6.4 300 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3704	Perforated cable tray Hot Dipped Galvanised Iron 300 X 50 X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	427.50	13466.25
3720	Perforated cable tray Connector Hot Dipped Galvanised Iron 300 X 50 X 1.6 mm	each	9.00	33.75	303.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/ angle iron/ channel = 20x0.35m = 7.0m @ 1.11 kg/m = 7.77 kg	kg	7.77	36.40	282.83

2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
	Total cost of materials				15092.83
	Cartage @ 1 %				150.93
	LABOUR				
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallas	day	4.00	368.00	1472.00
	TOTAL				18343.76
	Add 15 % Over Head & Contractor Profit				2751.56
	Cost for 30 Metre				21095.32
	Rate per Metre				703.18
	Say				703.00

4.6.5 375 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3705	Perforated cable tray Hot Dipped Galvanised Iron 375 X 50 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	577.13	18179.60
3721	Perforated cable tray Connector Hot Dipped Galvanised Iron 375 X 50 X 2 mm	each	9.00	33.75	303.75
3805	35 mm X 55 mm X 4 mm Galvanised slotted/angle iron/ channel = 20x0.425m = 8.5m @ 2.09 kg/m = 17.77kg	kg	17.77	36.40	646.83
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
	Total cost of materials				20170.17
	Cartage @ 1 %				201.70
	LABOUR				
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallas	day	4.00	368.00	1472.00
	TOTAL				23471.87
	Add 15 % Over Head & Contractor Profit				3520.78
	Cost for 30 Metre				26992.66
	Rate per Metre				899.76
	Say				900.00

4.6.6 450 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

Code	Description	Rate	Unit	Qty	Total	
MATERIAL						
3706	Perforated cable tray Hot Dipped Galvanised Iron 450 X 50 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m		metre	31.50	669.38	21085.47
3722	Perforated cable tray Connector Hot Dipped Galvanised Iron 450 X 50 X 2 mm		each	9.00	33.75	303.75
3805	35 mm X 55 mm X 4 mm Galvannised slotted/ angle iron/ channel = 20x0.5m = 10.0m @ 2.09 kg/m = 20.09kg		kg	20.90	36.40	760.76
2855	Steel fastener 6 mm X 75 mm		each	40.00	5.00	200.00
3802	GI Suspender 8 mm dia 0.75m long		each	40.00	25.52	1020.80
Total cost of materials					23370.78	
Cartage @ 1 %					233.71	
LABOUR						
1005	Fitter, Grade 2		day	2.00	407.00	814.00
1010	Mason, Grade 2		day	2.00	407.00	814.00
1007	Khallasi		day	4.00	368.00	1472.00
TOTAL					26704.49	
Add 15 % Over Head & Contractor Profit					4005.67	
Cost for 30 Metre					30710.16	
Rate per Metre					1023.67	
Say					1024.00	

4.6.7 600 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹	
MATERIAL						
3707	Perforated cable tray Hot Dipped Galvanised Iron 600 X 50 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m		metre	31.50	850.50	26790.75
3723	Perforated cable tray Connector Hot Dipped Galvanised Iron 600 X 50 X 2 mm		each	9.00	33.75	303.75
3805	35 mm X 55 mm X 4 mm Gaalvannised slotted/angle iron/ channel = 20x0.65m = 13.0m @ 2.09 kg/m = 27.17kg		kg	27.17	36.40	988.99
2856	Steel fastener 8 mm X 75 mm		each	40.00	7.00	280.00
3802	GI Suspender 8 mm dia 0.75m long		each	40.00	25.52	1020.80
Total cost of materials					29384.29	
Cartage @ 1 %					293.84	
LABOUR						

1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				32778.13
	Add 15 % Over Head & Contractor Profit				4916.72
	Cost for 30 Metre				37694.85
	Rate per Metre				1256.50
	Say				1257.00

4.6.8 300 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 30 metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3708	Perforated cable tray Hot Dipped Galvanised Iron 300 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	517.50	16301.25
3724	Perforated cable tray Hot Dipped Galvanised Iron Connector 300 X 62.5 X 2 mm	each	9.00	33.75	303.75
3804	25 mm X 25 mm X 3 mm Galvanised slotted/ angle iron/ channel = 20x0.35m = 7.0m @ 1.11 kg/m = 7.77kg	kg	7.77	36.40	282.83
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
	Total cost of materials				18007.83
	Cartage @ 1 %				180.08
LABOUR					
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				21287.91
	Add 15 % Over Head & Contractor Profit				3193.19
	Cost for 30 Metre				24481.09
	Rate per Metre				816.04
	Say				816.00

4.6.9 375 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 30 metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3709	Perforated cable tray Hot Dipped Galvanised Iron 375 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	607.50	19136.25
3725	Perforated cable tray Connector Hot Dipped Galvanised Iron 375 X 62.5 X 2 mm	each	9.00	33.75	303.75

CHAPTER-4 : CABLE TRAYS

3805	35 mm X 55 mm X 4 mm Galvannised slotted/ angle iron/ channel	kg	17.77	36.40	646.83
	= 20x0.425m = 8.5m @ 2.09 kg/m = 17.77kg				
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
	Total cost of materials				21206.83
	Cartage @ 1 %				212.07
	LABOUR				
1005	Fitter, Grade 2	day	2.00	407.00	814.00
1010	Mason, Grade 2	day	2.00	407.00	814.00
1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				24518.90
	Add 15 % Over Head & Contractor Profit				3677.83
	Cost for 30 Metre				28196.73
	Rate per Metre				939.89
	Say				940.00

4.6.10 450 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 30 metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3710	Perforated cable tray Hot Dipped Galvanised Iron 450 X 62.5 X 2 mm	metre	31.50	698.63	22006.85
	= 30 + 1.5 (wastage @ 5%) = 31.5m				
3726	Perforated cable tray Connector Hot Dipped Galvanised Iron 450 X 62.5 X 2 mm	each	9.00	33.75	303.75
3805	35 mm X 55 mm X 4 mm Galvannised slotted/ angle iron/ channel	kg	20.90	36.40	760.76
	= 20x0.5m = 10.0m @ 2.09 kg/m = 20.09kg				
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.00	200.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.00	840.00
	Total cost of materials				24111.36
	Cartage @ 1 %				241.11
	LABOUR				
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
	TOTAL				28227.47
	Add 15 % Over Head & Contractor Profit				4234.12
	Cost for 30 Metre				32461.59
	Rate per Metre				1082.05
	Say				1082.00

4.6.11 600 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3711	Perforated cable tray Hot Dipped Galvanised Iron 600 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	883.13	27818.60
3727	Perforated cable tray Connector Hot Dipped Galvanised Iron 600 X 62.5 X 2 mm	each	9.00	33.75	303.75
3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel = 20x0.65m = 13.0m @ 2.09 kg/m = 27.17kg	kg	27.17	36.40	988.99
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.80
Total cost of materials					30412.13
Cartage @ 1 %					304.12
LABOUR					
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
TOTAL					34591.25
Add 15 % Over Head & Contractor Profit					5188.69
Cost for 30 Metre					39779.94
Rate per Metre					1326.00
Say					1326.00

4.6.12 750 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3712	Perforated cable tray Hot Dipped Galvanised Iron 750 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	1085.63	34197.35
3728	Perforated cable tray Connector Hot Dipped Galvanised Iron 750 X 62.5 X 2 mm	each	9.00	33.75	303.75
3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel = 20x0.8m = 16.0m @ 2.09 kg/m = 33.44kg	kg	33.44	36.40	1217.22
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.80
Total cost of materials					37019.11
Cartage @ 1 %					370.19

LABOUR					
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallas	day	5.00	368.00	1840.00
TOTAL					41264.30
Add 15 % Over Head & Contractor Profit					6189.65
Cost for 30 Metre					47453.95
Rate per Metre					1581.80
Say					1582.00

4.6.13 900 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3713	Perforated cable tray Hot Dipped Galvanised Iron 900 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	1271.25	40044.38
3729	Perforated cable tray Connector Hot Dipped Galvanised Iron 900 X 62.5 X 2 mm	each	9.00	33.75	303.75
3806	35mm X 35 mm X 5 mm Galvanised slotted/ angle iron/ channel = 20x0.95m = 19.0m @ 2.09 kg/m = 49.21 kg	kg	49.21	36.40	1791.24
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
3803	GI Suspender 10 mm dia 0.75m long	each	40.00	35.91	1436.40
Total cost of materials					43855.77
Cartage @ 1 %					438.56
LABOUR					
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallas	day	5.00	368.00	1840.00
TOTAL					48169.33
Add 15 % Over Head & Contractor Profit					7225.40
Cost for 30 Metre					55394.73
Rate per Metre					1846.49
Say					1846.00

4.6.14 600 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 30 metres					
MATERIAL					
3714	Perforated cable tray Hot Dipped Galvanised Iron 600 X 75 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	911.25	28704.38

3727	Perforated cable tray Connector Hot Dipped Galvanised Iron 600 X 62.5 X 2 mm	each	9.00	33.75	303.75
3805	35 mm X 35 mm X 4 mm Gaalvannised slotted/angle iron/ channel = 20x0.65m =13.0m @ 2.09 kg/m=27.17 kg	36.40	kg	27.17	988.99
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.80
Total cost of materials					31297.91
Cartage @ 1 %					312.98
LABOUR					
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
TOTAL					35485.89
Add 15 % Over Head & Contractor Profit					5322.88
Cost for 30 Metre					40808.78
Rate per Metre					1360.29
Say					1360.00

4.6.15 750 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 30 metres					
MATERIAL					
3715	Perforated cable tray Hot Dipped Galvanised Iron 750 X 75 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	1113.75	35083.13
3728	Perforated cable tray Connector Hot Dipped Galvanised Iron 750 X 75 X 2 mm	each	9.00	33.75	303.75
3805	35 mm X 55 mm X 4 mm Gaalvannised slotted/angle iron/ channel = 20x0.8m = 16.0m @ 2.09 kg/m = 33.44kg	kg	33.44	36.40	1217.22
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.52	1020.80
Total cost of materials					37904.89
Cartage @ 1 %					379.05
LABOUR					
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
TOTAL					42158.94
Add 15 % Over Head & Contractor Profit					6323.84
Cost for 30 Metre					48482.78
Rate per Metre					1616.09
Say					1616.00

4.6.16 900 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 30 metres					
MATERIAL					
3716	Perforated cable tray Hot Dipped Galvanised Iron 900 X 75 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	1299.38	40930.47
3729	Perforated cable tray Connector Hot Dipped Galvanised Iron 900 X 75 X 2 mm	each	9.00	33.75	303.75
3806	35mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 20x0.95m = 19.0m @ 2.59 kg/m = 49.21 kg	kg	49.21	36.40	1791.24
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.00	280.00
3803	GI Suspender 10 mm dia 0.75m long	each	40.00	35.91	1436.40
Total cost of materials					44741.86
Cartage @ 1 %					447.42
LABOUR					
1005	Fitter, Grade 2	day	2.50	407.00	1017.50
1010	Mason, Grade 2	day	2.50	407.00	1017.50
1007	Khallasi	day	5.00	368.00	1840.00
TOTAL					49064.28
Add 15 % Over Head & Contractor Profit					7359.64
Cost for 30 Metre					56423.93
Rate per Metre					1880.80
Say					1881.00

4.7 Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.

4.7.1 100 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3733	Hot Dipped G.I. Perforated cable tray Bend 100 X 50 X 1.6 mm	each	1.00	534.38	534.38
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.15m = 0.15m @ 1.11 kg/m = 0.17 kg	kg	0.17	36.40	6.19
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					626.31
Cartage @ 1 %					6.26
LABOUR					

1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				710.08
	Add 15 % Over Head & Contractor Profit				106.51
	TOTAL				816.59
	Rate for 1 No.				816.59
	Say				817.00

4.7.2 150 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3734	Hot Dipped G.I. Perforated cable tray Bend 150 X 50 X 1.6 mm	each	1.00	669.38	669.38
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.2m = 0.20m @ 1.11 kg/m = 0.22 kg	kg	0.22	36.40	8.01
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				763.14
	Cartage @ 1 %				7.63
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				848.27
	Add 15 % Over Head & Contractor Profit				127.24
	TOTAL				975.51
	Rate for 1 No.				975.51
	Say				976.00

4.7.3 225 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3735	Hot Dipped G.I. Perforated cable tray Bend 225 X 50 X 1.6 mm	each	1.00	871.88	871.88
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.25m = 0.25m @ 1.11 kg/m = 0.28 kg	kg	0.28	36.40	10.19
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00

Total cost of materials					967.82
Cartage @ 1 %					9.68
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1055.00
Add 15 % Over Head & Contractor Profit					158.25
TOTAL					1213.25
Rate for 1 No.					1213.25
Say					1213.00

4.7.4 300 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3736	Hot Dipped G.I. Perforated cable tray Bended 300 X 50 X 1.6 mm	each	1.00	1068.75	1068.75
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	36.40	14.20
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					1168.70
Cartage @ 1 %					11.69
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1257.88
Add 15 % Over Head & Contractor Profit					188.68
TOTAL					1446.57
Rate for 1 No.					1446.57
Say					1447.00

4.7.5 375 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3737	Hot Dipped G.I. Perforated cable tray Bend 375 X 50 X 2 mm	each	1.00	1445.63	1445.63

3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	36.40	32.76
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					1564.14
Cartage @ 1 %					15.64
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1657.28
Add 15 % Over Head & Contractor Profit					248.59
TOTAL					1905.87
Rate for 1 No.					1905.87
Say					1906.00

4.7.6 450 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3738	Hot Dipped G.I. Perforated cable tray Bend 450 X 50 X 2 mm	each	1.00	1670.63	1670.63
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	36.40	38.22
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					1803.64
Cartage @ 1 %					18.04
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1899.18
Add 15 % Over Head & Contractor Profit					284.88
TOTAL					2184.05
Rate for 1 No.					2184.05
Say					2184.00

4.7.7 600 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3739	Hot Dipped G.I. Perforated cable tray Bend 600 X 50 X 2 mm	each	1.00	2126.25	2126.25
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2274.54
Cartage @ 1 %					22.75
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					2374.79
Add 15 % Over Head & Contractor Profit					356.22
TOTAL					2731.01
Rate for 1 No.					2731.01
Say					2731.00

4.7.8 300 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3740	Hot Dipped G.I. Perforated cable tray Bend 300 X 62.5 X 2 mm	each	1.00	1293.75	1293.75
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	36.40	14.20
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					1397.70
Cartage @ 1 %					13.98
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35

1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1489.17
	Add 15 % Over Head & Contractor Profit				223.38
	TOTAL				1712.55
	Rate for 1 No.				1712.55
	Say				1713.00

4.7.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3741	Hot Dipped G.I. Perforated cable tray Bend 375 X 62.5 X 2 mm	each	1.00	1518.75	1518.75
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 1.11 kg/m = 0.9 kg	kg	0.90	36.40	32.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				1641.26
	Cartage @ 1 %				16.41
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1735.17
	Add 15 % Over Head & Contractor Profit				260.28
	TOTAL				1995.45
	Rate for 1 No.				1995.45
	Say				1995.00

4.7.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3742	Hot Dipped G.I. Perforated cable tray Bend 450 X 62.5 X 2 mm	each	1.00	1749.38	1749.38
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.5m @ 2.09 kg/m = 1.05 kg	kg	1.05	36.40	38.22
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00

CHAPTER-4 : CABLE TRAYS

3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				1873.35
	Cartage @ 1 %				18.73
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2016.08
	Add 15 % Over Head & Contractor Profit				302.41
	TOTAL				2318.50
	Rate for 1 No.				2318.50
	Say				2318.00

4.7.11 600 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3743	Hot Dipped G.I. Perforated cable tray Bend 600 X 62.5 X 2 mm	each	1.00	2025.00	2025.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
	Total cost of materials				2173.29
	Cartage @ 1 %				21.73
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2319.03
	Add 15 % Over Head & Contractor Profit				347.85
	TOTAL				2666.88
	Rate for 1 No.				2666.88
	Say				2667.00

4.7.12 750 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3744	Hot Dipped G.I. Perforated cable tray Bend 750 X 62.5 X 2 mm	each	1.00	2711.25	2711.25

3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.8m @ 2.09 kg/m = 1.67 kg	kg	1.67	36.40	60.79
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2870.83
Cartage @ 1 %					28.71
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					3023.54
Add 15 % Over Head & Contractor Profit					453.53
TOTAL					3477.07
Rate for 1 No.					3477.07
Say					3477.00

4.7.13 900 mm width X 62.5 mm depth X 2.0 mm thickness

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 1 No.					
MATERIAL					
3745	Hot Dipped G.I. Perforated cable tray Bend 900 X 62.5 X 2 mm	each	1.00	3172.50	3172.50
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	33.75	33.75
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	36.40	89.54
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					3360.83
Cartage @ 1 %					33.61
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					3518.44
Add 15 % Over Head & Contractor Profit					527.77
TOTAL					4046.21
Rate for 1 No.					4046.21
Say					4046.00

4.7.14 600 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3746	Hot Dipped G.I. Perforated cable tray Bend 600 X 75 X 2 mm	each	1.00	2278.13	2278.13
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.00	52.00
Total cost of materials					2427.38
Cartage @ 1 %					24.27
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					2575.66
Add 15 % Over Head & Contractor Profit					386.35
TOTAL					2962.01
Rate for 1 No.					2962.01
Say					2962.00

4.7.15 750 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3747	Hot Dipped G.I. Perforated cable tray Bend 750 X 75 X 2 mm	each	1.00	2784.38	2784.38
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.8m @ 2.09 kg/m = 1.67 kg	kg	1.67	36.40	60.79
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2943.96
Cartage @ 1 %					29.44
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88

TOTAL	3097.40
Add 15 % Over Head & Contractor Profit	464.61
TOTAL	3562.01
Rate for 1 No.	3562.01
Say	3562.00

4.7.16 900 mm width X 75 mm depth X 2.0 mm thickness

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 1 No.					
MATERIAL					
3748	Hot Dipped G.I. Perforated cable tray Bend 900 X 75 X 2 mm	each	1.00	3251.25	3251.25
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	33.75	33.75
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	36.40	89.54
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					3439.58
Cartage @ 1 %					34.40
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					3597.98
Add 15 % Over Head & Contractor Profit					539.70
TOTAL					4137.68
Rate for 1 No.					4137.68
Say					4138.00

4.8 Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.

4.8.1 100 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3765	Hot Dipped G.I. Perforated cable tray TEE 100 X 50 X 1.6 mm	each	1.00	641.25	641.25
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel	kg	0.17	36.40	6.19

CHAPTER-4 : CABLE TRAYS

	= 1x0.15m = 0.15m @ 1.11 kg/m = 0.17 kg				
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				733.19
	Cartage @ 1 %				7.33
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				818.02
	Add 15 % Over Head & Contractor Profit				122.70
	TOTAL				940.72
	Rate for 1 No.				940.72
	Say				941.00

4.8.2 150 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3766	Hot Dipped G.I. Perforated cable tray TEE 150 X 50 X 1.6 mm	each	1.00	669.38	669.38
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel	kg	0.22	36.40	8.01
	= 1x0.2m = 0.20m @ 1.11 kg/m = 0.22 kg				
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				763.14
	Cartage @ 1 %				7.63
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				848.27
	Add 15 % Over Head & Contractor Profit				127.24
	TOTAL				975.51
	Rate for 1 No.				975.51
	Say				976.00

4.8.3 225 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3767	Hot Dipped G.I. Perforated cable tray TEE 225 X 50 X 1.6 mm	each	1.00	1046.25	1046.25
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	33.75	33.75

3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.25m = 0.25m @ 1.11 kg/m = 0.28 kg	kg	0.28	36.40	10.19
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					1142.19
Cartage @ 1 %					11.42
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1231.11
Add 15 % Over Head & Contractor Profit					184.67
TOTAL					1415.78
Rate for 1 No.					1415.78
Say					1416.00

4.8.4 300 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3768	Hot Dipped G.I. Perforated cable tray TEE 300 X 50 X 1.6 mm	each	1.00	1282.50	1282.50
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	36.40	14.20
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					1382.45
Cartage @ 1 %					13.82
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1473.77
Add 15 % Over Head & Contractor Profit					221.07
TOTAL					1694.84
Rate for 1 No.					1694.84
Say					1695.00

4.8.5 375 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3769	Hot Dipped G.I. Perforated cable tray TEE 375 X 50 X 2 mm	each	1.00	1732.50	1732.50
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	36.40	32.76
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					1851.01
Cartage @ 1 %					18.51
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1947.02
Add 15 % Over Head & Contractor Profit					292.05
TOTAL					2239.07
Rate for 1 No.					2239.07
Say					2239.00

4.8.6 450 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3770	Hot Dipped G.I. Perforated cable tray TEE 450 X 50 X 2 mm	each	1.00	2008.13	2008.13
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	36.40	38.22
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2141.14
Cartage @ 1 %					21.41
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35

1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				2240.05
	Add 15 % Over Head & Contractor Profit				336.01
	TOTAL				2576.06
	Rate for 1 No.				2576.06
	Say				2576.00

4.8.7 600 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3771	Hot Dipped G.I. Perforated cable tray TEE 600 X 50 X 2 mm	each	1.00	2553.75	2553.75
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
	Total cost of materials				2702.04
	Cartage @ 1 %				27.02
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				2806.56
	Add 15 % Over Head & Contractor Profit				420.98
	TOTAL				3227.55
	Rate for 1 No.				3227.55
	Say				3228.00

4.8.8 300 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3772	Hot Dipped G.I. Perforated cable tray TEE 300 X 62.5 X 2 mm	each	1.00	1552.50	1552.50
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	36.40	14.20
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00

CHAPTER-4 : CABLE TRAYS

3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				1656.45
	Cartage @ 1 %				16.56
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1750.51
	Add 15 % Over Head & Contractor Profit				262.58
	TOTAL				2013.09
	Rate for 1 No.				2013.09
	Say				2013.00

4.8.9 375 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3773	Hot Dipped G.I. Perforated cable tray TEE 375 X 62.5 X 2 mm	each	1.00	1856.25	1856.25
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	36.40	32.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				1978.76
	Cartage @ 1 %				19.79
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				2076.05
	Add 15 % Over Head & Contractor Profit				311.41
	TOTAL				2387.45
	Rate for 1 No.				2387.45
	Say				2387.00

4.8.10 450 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3774	Hot Dipped G.I. Perforated cable tray TEE 450 X 62.5 X 2 mm	each	1.00	2098.13	2098.13

3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	36.40	38.22
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					2222.10
Cartage @ 1 %					22.22
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					2368.32
Add 15 % Over Head & Contractor Profit					355.25
TOTAL					2723.56
Rate for 1 No.					2723.56
Say					2724.00

4.8.11 600 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3775	Hot Dipped G.I. Perforated cable tray TEE 600 X 62.5 X 2 mm	each	1.00	2700.00	2700.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2848.29
Cartage @ 1 %					28.48
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					3000.78
Add 15 % Over Head & Contractor Profit					450.12
TOTAL					3450.89
Rate for 1 No.					3450.89
Say					3451.00

4.8.12 750 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3776	Hot Dipped G.I. Perforated cable tray TEE 750 X 62.5 X 2 mm	each	1.00	3251.25	3251.25
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	36.40	60.79
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					3410.83
Cartage @ 1 %					34.11
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					3568.94
Add 15 % Over Head & Contractor Profit					535.34
TOTAL					4104.28
Rate for 1 No.					4104.28
Say					4104.00

4.8.13 900 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3777	Hot Dipped G.I. Perforated cable tray TEE 900 X 62.5 X 2 mm	each	1.00	3808.13	3808.13
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	33.75	33.75
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	36.40	89.54
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					3996.46
Cartage @ 1 %					39.96
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56

1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				4160.42
	Add 15 % Over Head & Contractor Profit				624.06
	TOTAL				4784.49
	Rate for 1 No.				4784.49
	Say				4784.00

4.8.14 600 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3778	Hot Dipped G.I. Perforated cable tray TEE 600 X 75 X 2 mm	each	1.00	2733.75	2733.75
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
	Total cost of materials				2882.04
	Cartage @ 1 %				28.82
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				3034.86
	Add 15 % Over Head & Contractor Profit				455.23
	TOTAL				3490.09
	Rate for 1 No.				3490.09
	Say				3490.00

4.8.15 750 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3779	Hot Dipped G.I. Perforated cable tray TEE 750 X 75 X 2 mm	each	1.00	3341.25	3341.25
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	36.40	60.79
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00

CHAPTER-4 : CABLE TRAYS

3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					3500.83
Cartage @ 1 %					35.01
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					3659.84
Add 15 % Over Head & Contractor Profit					548.98
TOTAL					4208.81
Rate for 1 No.					4208.81
Say					4209.00

4.8.16 900 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3780	Hot Dipped G.I. Perforated cable tray TEE 900 X 75 X 2 mm	each	1.00	3898.13	3898.13
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	33.75	33.75
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	36.40	89.54
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					4086.46
Cartage @ 1 %					40.86
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					4251.32
Add 15 % Over Head & Contractor Profit					637.70
TOTAL					4889.02
Rate for 1 No.					4889.02
Say					4889.00

4.9 Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Cross member" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.

4.9.1 100 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3781	Hot Dipped G.I. Perforated cable tray Cross member 100 X 50 X 1.6 mm	each	1.00	641.25	641.25
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.15m = 0.15m @ 1.11 kg/m = 0.17 kg	kg	0.17	36.40	6.19
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					733.19
Cartage @ 1 %					7.33
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					818.02
Add 15 % Over Head & Contractor Profit					122.70
TOTAL					940.72
Rate for 1 No.					940.72
Say					941.00

4.9.2 150 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3782	Hot Dipped G.I. Perforated cable tray Cross member 150 X 50 X 1.6 mm	each	1.00	669.38	669.38
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.2m = 0.20m @ 1.11 kg/m = 0.22 kg	kg	0.22	36.40	8.01
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					763.13
Cartage @ 1 %					7.63
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80

TOTAL	848.26
Add 15 % Over Head & Contractor Profit	127.24
TOTAL	975.50
Rate for 1 No.	975.50
Say	976.00

4.9.3 225 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3783	Hot Dipped G.I. Perforated cable tray Cross member 225 X 50 X 1.6 mm	each	1.00	1046.25	1046.25
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.25m = 0.25m @ 1.11 kg/m = 0.28 kg	kg	0.28	36.40	10.19
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					1142.19
Cartage @ 1 %					11.42
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasasi	day	0.10	368.00	36.80
TOTAL					1231.11
Add 15 % Over Head & Contractor Profit					184.67
TOTAL					1415.78
Rate for 1 No.					1415.78
Say					1416.00

4.9.4 300 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3784	Hot Dipped G.I. Perforated cable tray Cross member 300 X 50 X 1.6 mm	each	1.00	1282.50	1282.50
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	36.40	14.20
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00

Total cost of materials					1382.45
Cartage @ 1 %					13.82
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1473.77
Add 15 % Over Head & Contractor Profit					221.07
TOTAL					1694.84
Rate for 1 No.					1694.84
Say					1695.00

4.9.5 375 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

Code	Description	Rate	Unit	Qty	Total
MATERIAL					
3785	Hot Dipped G.I. Perforated cable tray Cross member 375 X 50 X 2 mm		each	1.00	1732.50
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm		each	1.00	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg		kg	0.90	36.40
2855	Steel fastener 6 mm X 75 mm		each	2.00	10.00
3801	GI Suspender 6 mm dia 0.75m long		each	2.00	42.00
Total cost of materials					1851.01
Cartage @ 1 %					18.51
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1947.02
Add 15 % Over Head & Contractor Profit					292.05
TOTAL					2239.07
Rate for 1 No.					2239.07
Say					2239.00

4.9.6 450 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3786	Hot Dipped G.I. Perforated cable tray Cross member 450 X 50 X 2 mm	each	1.00	2008.13	2008.13
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	33.75	33.75

CHAPTER-4 : CABLE TRAYS

3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	36.40	38.22
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2141.14
Cartage @ 1 %					21.41
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					2240.05
Add 15 % Over Head & Contractor Profit					336.01
TOTAL					2576.05
Rate for 1 No.					2576.05
Say					2576.00

4.9.7 600 mm width X 50 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3787	Hot Dipped G.I. Perforated cable tray Cross member 600 X 50 X 2 mm	each	1.00	2553.75	2553.75
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.43
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2701.97
Cartage @ 1 %					27.02
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					2806.49
Add 15 % Over Head & Contractor Profit					420.97
TOTAL					3227.46
Rate for 1 No.					3227.46
Say					3227.00

4.9.8 300 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3788	Hot Dipped G.I. Perforated cable tray Cross member 300 X 62.5 X 2 mm	each	1.00	1552.50	1552.50
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	36.40	14.20
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					1656.45
Cartage @ 1 %					16.56
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					1750.51
Add 15 % Over Head & Contractor Profit					262.58
TOTAL					2013.09
Rate for 1 No.					2013.09
Say					2013.00

4.9.9 375 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3789	Hot Dipped G.I. Perforated cable tray Cross member 375 X 62.5 X 2 mm	each	1.00	1822.50	1822.50
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	36.40	32.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					1945.01
Cartage @ 1 %					19.45
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35

CHAPTER-4 : CABLE TRAYS

1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				2041.96
	Add 15 % Over Head & Contractor Profit				306.29
	TOTAL				2348.25
	Rate for 1 No.				2348.25
	Say				2348.00

4.9.10 450 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3790	Hot Dipped G.I. Perforated cable tray Cross member 450 X 62.5 X 2 mm	each	1.00	2098.13	2098.13
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	36.40	38.22
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				2222.10
	Cartage @ 1 %				22.22
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				2368.32
	Add 15 % Over Head & Contractor Profit				355.25
	TOTAL				2723.56
	Rate for 1 No.				2723.56
	Say				2724.00

4.9.11 600 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3791	Hot Dipped G.I. Perforated cable tray Cross member 600 X 62.5 X 2 mm	each	1.00	2649.38	2649.38
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00

3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2797.67
Cartage @ 1 %					27.98
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					2949.65
Add 15 % Over Head & Contractor Profit					442.45
TOTAL					3392.09
Rate for 1 No.					3392.09
Say					3392.00

4.9.12 750mm width X 62.5 mm depth X 2 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3792	Hot Dipped G.I. Perforated cable tray Cross member 750 X 62.5 X 2 mm	each	1.00	3251.25	3251.25
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvanised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	36.40	60.79
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					3410.83
Cartage @ 1 %					34.11
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					3568.94
Add 15 % Over Head & Contractor Profit					535.34
TOTAL					4104.28
Rate for 1 No.					4104.28
Say					4104.00

4.9.13 900 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3793	Hot Dipped G.I. Perforated cable tray Cross member 900 X 62.5 X 2 mm	each	1.00	3808.13	3808.13

CHAPTER-4 : CABLE TRAYS

3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	33.75	33.75
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	36.40	89.54
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					3996.46
Cartage @ 1 %					39.96
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					4160.42
Add 15 % Over Head & Contractor Profit					624.06
TOTAL					4784.49
Rate for 1 No.					4784.49
Say					4784.00

4.9.14 600 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3794	Hot Dipped G.I. Perforated cable tray Cross member 600 X 75 X 2 mm	each	1.00	2733.75	2733.75
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2882.04
Cartage @ 1 %					28.82
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					3034.86
Add 15 % Over Head & Contractor Profit					455.23
TOTAL					3490.09
Rate for 1 No.					3490.09
Say					3490.00

4.9.15 750 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3795	Hot Dipped G.I. Perforated cable tray Cross member 750 X 75 X 2 mm	each	1.00	2338.88	2338.88
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	36.40	60.79
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2498.45
Cartage @ 1 %					24.98
LABOUR					
1005	Fitter, Grade 2	407.00	day	0.08	32.56
1010	Mason, Grade 2	407.00	day	0.08	32.56
1007	Khallasi	368.00	day	0.16	58.88
TOTAL					2647.44
Add 15 % Over Head & Contractor Profit					397.12
TOTAL					3044.55
Rate for 1 No.					3044.55
Say					3045.00

4.9.16 900 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3796	Hot Dipped G.I. Perforated cable tray Cross member 900 X 75 X 2 mm	each	1.00	2728.69	2728.69
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	33.75	33.75
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	36.40	89.54
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					2917.02
Cartage @ 1 %					29.17
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56

CHAPTER-4 : CABLE TRAYS

1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				3070.19
	Add 15 % Over Head & Contractor Profit				460.53
	TOTAL				3530.72
	Rate for 1 No.				3530.72
	Say				3531.00

4.10 Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Reducer" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.

4.10.1 100 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3749	Hot Dipped G.I. Perforated cable tray Reducer 100 X 50 X 1.6 mm	each	1.00	1203.75	1203.75
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.15m = 0.15m @ 1.11 kg/m = 0.17 kg	kg	0.17	36.40	6.19
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				1295.69
	Cartage @ 1 %				12.96
	LABOUR				
1005	Fitter, Grade 2	407.00	day	0.05	20.35
1010	Mason, Grade 2	407.00	day	0.05	20.35
1007	Khallasi	368.00	day	0.10	36.80
	TOTAL				1386.14
	Add 15 % Over Head & Contractor Profit				207.92
	TOTAL				1594.07
	Rate for 1 No.				1594.07
	Say				1594.00

4.10.2 150 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3750	Hot Dipped G.I. Perforated cable tray Reducer 150 X 50 X 1.6 mm	each	1.00	1541.25	1541.25
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.2m = 0.20m @ 1.11 kg/m = 0.22 kg	kg	0.22	36.40	8.01

2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				1635.01
	Cartage @ 1 %				16.35
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				1728.86
	Add 15 % Over Head & Contractor Profit				259.33
	TOTAL				1988.19
	Rate for 1 No.				1988.19
	Say				1988.00

4.10.3 225 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3751	Hot Dipped G.I. Perforated cable tray Reducer 225 X 50 X 1.6 mm	each	1.00	1940.63	1940.63
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.25m = 0.25m @ 1.11 kg/m = 0.28 kg	kg	0.28	36.40	10.19
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				2040.57
	Cartage @ 1 %				20.41
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				2138.47
	Add 15 % Over Head & Contractor Profit				320.77
	TOTAL				2459.24
	Rate for 1 No.				2459.24
	Say				2459.00

4.10.4 300 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3752	Hot Dipped G.I. Perforated cable tray Reducer 300 X 50 X 1.6 mm	each	1.00	2362.50	2362.50

CHAPTER-4 : CABLE TRAYS

3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	33.75	33.75
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	36.40	14.20
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					2466.45
Cartage @ 1 %					24.66
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					2568.61
Add 15 % Over Head & Contractor Profit					385.29
TOTAL					2953.90
Rate for 1 No.					2953.90
Say					2954.00

4.10.5 375 mm width X 50 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3753	Hot Dipped G.I. Perforated cable tray Reducer 375 X 50 X 2 mm	each	1.00	2812.50	2812.50
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	36.40	32.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					2935.01
Cartage @ 1 %					29.35
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					3041.86
Add 15 % Over Head & Contractor Profit					456.28
TOTAL					3498.14
Rate for 1 No.					3498.14
Say					3498.00

4.10.6 450 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3754	Hot Dipped G.I. Perforated cable tray Reducer 450 X 50 X 2 mm	each	1.00	3037.50	3037.50
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	36.40	38.22
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					3174.51
Cartage @ 1 %					31.75
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					3283.76
Add 15 % Over Head & Contractor Profit					492.56
TOTAL					3776.32
Rate for 1 No.					3776.32
Say					3776.00

4.10.7 600 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3755	Hot Dipped G.I. Perforated cable tray Reducer 600 X 50 X 2 mm	each	1.00	4275.00	4275.00
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					4423.29
Cartage @ 1 %					44.23
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35

CHAPTER-4 : CABLE TRAYS

1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				4545.03
	Add 15 % Over Head & Contractor Profit				681.75
	TOTAL				5226.78
	Rate for 1 No.				5226.78
	Say				5227.00

4.10.8 300 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3756	Hot Dipped G.I. Perforated cable tray Reducer 300 X 62.5 X 2 mm	each	1.00	2812.50	2812.50
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	36.40	14.20
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
	Total cost of materials				2916.45
	Cartage @ 1 %				29.16
	LABOUR				
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				3023.11
	Add 15 % Over Head & Contractor Profit				453.47
	TOTAL				3476.58
	Rate for 1 No.				3476.58
	Say				3477.00

4.10.9 375 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIAL				
3757	Hot Dipped G.I. Perforated cable tray Reducer 375 X 62.5 X 2 mm	each	1.00	3268.13	3268.13
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	36.40	32.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00

3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					3390.64
Cartage @ 1 %					33.91
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1010	Mason, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					3502.04
Add 15 % Over Head & Contractor Profit					525.31
TOTAL					4027.35
Rate for 1 No.					4027.35
Say					4027.00

4.10.10 450 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3758	Hot Dipped G.I. Perforated cable tray Reducer 450 X 62.5 X 2 mm	each	1.00	3954.38	3954.38
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm aGalvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	36.40	38.22
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.00	10.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.00	42.00
Total cost of materials					4078.35
Cartage @ 1 %					40.78
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					4243.13
Add 15 % Over Head & Contractor Profit					636.47
TOTAL					4879.60
Rate for 1 No.					4879.60
Say					4880.00

4.10.11 600 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3759	Hot Dipped G.I. Perforated cable tray Reducer 600 X 62.5 X 2 mm	each	1.00	4921.88	4921.88

CHAPTER-4 : CABLE TRAYS

3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					5070.17
Cartage @ 1 %					50.70
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					5244.87
Add 15 % Over Head & Contractor Profit					786.73
TOTAL					6031.60
Rate for 1 No.					6031.60
Say					6032.00

4.10.12 750 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3760	Hot Dipped G.I. Perforated cable tray Reducer 750 X 62.5 X 2 mm	each	1.00	5062.50	5062.50
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	36.40	60.79
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					5222.08
Cartage @ 1 %					52.22
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					5398.30
Add 15 % Over Head & Contractor Profit					809.74
TOTAL					6208.04
Rate for 1 No.					6208.04
Say					6208.00

4.10.13 900 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3761	Hot Dipped G.I. Perforated cable tray Reducer 900 X 62.5 X 2 mm	each	1.00	5895.00	5895.00
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	33.75	33.75
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	36.40	89.54
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					6083.33
Cartage @ 1 %					60.83
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					6268.17
Add 15 % Over Head & Contractor Profit					940.23
TOTAL					7208.39
Rate for 1 No.					7208.39
Say					7208.00

4.10.14 600 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3762	Hot Dipped G.I. Perforated cable tray Reducer 600 X 75 X 2 mm	each	1.00	4162.50	4162.50
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	36.40	49.50
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
Total cost of materials					4310.79
Cartage @ 1 %					43.11
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56

CHAPTER-4 : CABLE TRAYS

1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				4477.90
	Add 15 % Over Head & Contractor Profit				671.69
	TOTAL				5149.59
	Rate for 1 No.				5149.59
	Say				5150.00

4.10.15 750 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3763	Hot Dipped G.I. Perforated cable tray Reducer 750 X 75 X 2 mm	each	1.00	5315.63	5315.63
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	33.75	33.75
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	36.40	60.79
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
	Total cost of materials				5475.20
	Cartage @ 1 %				54.75
LABOUR					
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				5653.96
	Add 15 % Over Head & Contractor Profit				848.09
	TOTAL				6502.05
	Rate for 1 No.				6502.05
	Say				6502.00

4.10.16 900 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 1 No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIAL					
3764	Hot Dipped G.I. Perforated cable tray Reducer 900 X 75 X 2 mm	each	1.00	6187.50	6187.50
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	33.75	33.75
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	36.40	89.54
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.00	14.00

3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.52	51.04
	Total cost of materials				6375.83
	Cartage @ 1 %				63.76
	LABOUR				
1005	Fitter, Grade 2	day	0.08	407.00	32.56
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				6563.59
	Add 15 % Over Head & Contractor Profit				984.54
	TOTAL				7548.13
	Rate for 1 No.				7548.13
	Say				7548.00

CHAPTER 5 – EARTHING

- 5.1 Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required.**

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2826	40 mm dia. G.I. pipe (medium class) = 4.50 + 0.23 (Wastage @ 5%) = 4.73m	meter	4.73	207.95	983.60
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	231.00	231.00
2836	40 mm to 20 mm reducer	each	1.00	29.00	29.00
2918	Funnel	each	1.00	17.00	17.00
2919	G.I. nuts and through bolts with washer	each	1.00	22.00	22.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	3.00	150.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.03	672.00	20.16
Total cost of materials					1505.26
Cartage @ 1 % of A1					15.05
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	0.45	368.00	165.60
1083	Drilling of 46 Nos 12 mm dia holes on G.I. pipe	L.S.	1.00	300.00	300.00
TOTAL					2474.81
OVERHEADS & PROFIT @ 15 %					371.22
TOTAL					2846.03
Rate per Set					2846.03
Say					2846.00

- 5.2 Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.**

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2826	40 mm dia. G.I. pipe (medium class) = 4.50 + 0.23 (Wastage @ 5%) = 4.73m	meter	4.73	207.95	983.60
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	231.00	231.00

2836	40 mm to 20 mm reducer	each	1.00	29.00	29.00
2918	Funnel	each	1.00	17.00	17.00
2919	G.I. nuts and through bolts with washer	each	1.00	22.00	22.00
2941	Charcoal	kg	64.00	6.30	403.20
2943	Salt	kg	5.00	7.00	35.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	3.00	150.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.030	672.00	20.16
Total cost of materials					1943.46
Cartage @ 1 % of A1					19.43
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ cqolie	day	1.20	368.00	441.60
1083	Drilling of 46 Nos 12 mm dia holes on G.I. pipe	L.S.	1.00	300.00	300.00
TOTAL					3193.39
OVERHEADS & PROFIT @ 15 %					479.01
TOTAL					3672.40
Rate per Set					3672.40
Say					3672.00

5.3 Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. (but without charcoal/ coke and salt) as required.

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2915	600 mm X 600 mm X 6 mm thick G.I. plate	each	1.00	1307.00	1307.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	meter	2.84	96.19	273.18
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	231.00	231.00
2918	Funnel	each	1.00	17.00	17.00
2919	G.I. nuts and through bolts with washer	each	1.00	22.00	22.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	3.00	150.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.030	672.00	20.16
Total cost of materials					2072.84

	Cartage @ 1 % of A1				20.73
	LABOUR				
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	1.45	368.00	533.60
	TOTAL				3116.07
	OVERHEADS & PROFIT @ 15 %				467.41
	TOTAL				3583.48
	Rate per Set				3583.48
	Say				3583.00

5.4 Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2915	600 mm X 600 mm X 6 mm thick G.I. plate	each	1.0	1307.00	1307.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	meter	2.84	96.19	273.18
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	231.00	231.00
2918	Funnel	each	1.00	17.00	17.00
2919	G.I. nuts and through bolts with washer	each	1.00	22.00	22.00
2941	Charcoal	kg	96.00	6.30	604.80
2943	Salt	kg	5.00	7.00	35.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	3.00	150.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.03	672.00	20.16
	Total cost of materials				2712.64
	Cartage @ 1 % of A1				27.13
	LABOUR				
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	1.45	368.00	533.60
	TOTAL				3762.27
	OVERHEADS & PROFIT @ 15 %				564.34
	TOTAL				4326.61
	Rate per Set				4326.61
	Say				4327.00

- 5.5 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. (but without charcoal/ coke and salt) as required.**

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	each	1.0	4718.70	4718.70
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	meter	2.84	96.19	273.18
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	231.00	231.00
2918	Funnel	each	1.00	17.00	17.00
2919	G.I. nuts and through bolts with washer	each	1.00	22.00	22.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	3.00	150.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.03	672.00	20.16
Total cost of materials					5484.54
Cartage @ 1 % of A1					54.85
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1007	Khallas	day	0.50	368.00	184.00
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	1.45	368.00	533.60
TOTAL					6561.89
OVERHEADS & PROFIT @ 15 %					984.28
TOTAL					7546.17
Rate per Set					7546.17
Say					7546.00

- 5.6 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.**

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	each	1.0	4718.70	4718.70
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	meter	2.84	96.19	273.18

CHAPTER-5 : EARTHING

2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	231.00	231.00
2918	Funnel	each	1.00	17.00	17.00
2919	G.I. nuts and through bolts with washer	each	1.00	22.00	22.00
2941	Charcoal	kg	96.00	6.30	604.80
2943	Salt	kg	5.00	7.00	35.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	3.00	150.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.030	672.00	20.16
	Total cost of materials				6124.34
	Cartage @ 1 % of A1				61.24
	LABOUR				
1001	Wireman	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	1.45	368.00	533.60
	TOTAL				7208.08
	OVERHEADS & PROFIT @ 15 %				1081.21
	TOTAL				8289.29
	Rate per Set				8289.29
	Say				8289.00

5.7 Supplying and laying 6 SWG G.I. wire at 0.50 meter below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.

Details of cost for 30 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2916	6 SWG G.I. wire = $30 \times 0.147 = 4.41 + 0.22$ (Wastage @ 5%) = 4.63kg	kg	4.63	52.50	243.08
1085	Solder jointing	each	2.00	12.00	24.00
	Total cost of materials				267.08
	Cartage @ 1 % of A1				2.43
	LABOUR				
1001	Wireman	day	0.125	447.00	55.88
1007	Khallasi	day	0.125	368.00	46.00
1012	Beldar/ coolie	day	1.00	368.00	368.00
	TOTAL				739.39
	OVERHEADS & PROFIT @ 15 %				110.91
	Cost for 30 Metre				850.30
	Rate per Metre				28.34
	Say				28.00

- 5.8 Supplying and laying 25 mm X 5 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)**

Details of cost for 30 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2902	25 mm X 5 mm copper tape (1.15 kg/mtr) = 330x1.15 = 34.5 kg	kg	34.50	430.50	14852.25
1085	Solder jointing	each	5.00	12.00	60.00
Total cost of materials					14912.25
Cartage @ 1 % of A1					148.52
LABOUR					
1001	Wireman	day	0.125	447.00	55.88
1007	Khallasi	day	0.125	368.00	46.00
1012	Beldar/ coolie	day	1.00	368.00	368.00
TOTAL					15530.65
OVERHEADS & PROFIT @ 15 %					2329.60
Cost for 30 Metre					17860.25
Rate per Metre					595.34
Say					595.00

- 5.9 Supplying and laying 25 mm X 5 mm G.I strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)**

Details of cost for 30 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2913	25 mm X 6 mm G.I. strip (1.2 kg/mtr) = 30x1.2 = 36.0 + 1.8 (Wastage @ 5%) = 37.8kg	kg	37.80	42.00	1587.60
1085	Solder jointing	each	5.00	12.00	60.00
Total cost of materials					1647.60
Cartage @ 1 % of A1					15.88
LABOUR					
1001	Wireman	day	0.125	447.00	55.88
1007	Khallasi	day	0.125	368.00	46.00
1002	Cable jointer	day	1.00	447.00	447.00
TOTAL					2212.36
OVERHEADS & PROFIT @ 15 %					331.85
Cost for 30 Metre					2544.21
Rate per Metre					84.81
Say					85.00

5.10 Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2902	25 mm X 5 mm copper tape (1.15 kg/mtr) = 10x1.15 = 11.5 kg	kg	11.50	430.50	4950.75
2826	40 mm dia. G.I. pipe (medium class) = 10.0 + 0.5 (Wastage @ 5%) = 10.5m	meter	10.50	207.95	2183.48
2838	40 mm dia. G.I. bend (medium class)	each	1.00	51.45	51.45
Total cost of materials					7185.68
Cartage @ 1 % of A1					71.86
LABOUR					
1001	Wireman	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
1012	Beldar/ coolie	day	0.33	368.00	121.44
TOTAL					7582.73
OVERHEADS & PROFIT @ 15 %					1137.41
Cost for 10 Metre					8720.14
Rate per Metre					872.01
Say					872.00

5.11 Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2912	25 mm X 5 mm G.I. strip (1.0 kg/mtr) = 10x1.0 = 10.0 + 0.5 (Wastage @ 5%) = 10.5kg	kg	10.50	44.10	463.05
2826	40 mm dia. G.I. pipe (medium class) = 10.0 + 0.5 (Wastage @ 5%) = 10.5m	meter	10.50	207.95	2183.48
2838	40 mm dia. G.I. bend (medium class)	each	1.00	51.45	51.45
Total cost of materials					2697.98
Cartage @ 1 % of A1					26.98
LABOUR					
1001	Wireman	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
1012	Beldar/ coolie	day	0.33	368.00	121.44
TOTAL					3050.15
OVERHEADS & PROFIT @ 15 %					457.52

Cost for 10 Metre	3507.67
Rate per Metre	350.77
Say	351.00

5.12 Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2824	15 mm dia. G.I. pipe (medium class) = 10x1.0 = 10.0 + 0.5 (Wastage @ 5%) = 10.5kg	meter	10.50	76.24	800.52
2916	6 SWG G.I. wire = 10x0.147 = 1.47 + 0.09 (Wastage @ 5%) = 1.79kg	kg	1.79	52.50	93.98
Total cost of materials					894.50
Cartage @ 1 % of A1					8.95
LABOUR					
1001	Wireman	day	0.170	447.00	75.99
1007	Khallasi	day	0.170	368.00	62.56
1012	Beldar/ coolie	day	0.33	368.00	121.44
TOTAL					1163.44
OVERHEADS & PROFIT @ 15 %					174.52
Cost for 10 Metre					1337.96
Rate per Metre					133.80
Say					134.00

5.13 Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15 mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2824	15 mm dia. G.I. pipe (medium class) = 10x1.0 = 10.0 + 0.5 (Wastage @ 5%) = 10.5kg	meter	10.50	76.24	800.52
2904	8 SWG copper wire (4.0 mm dia) = (0.117 kg/mtr) = 10x0.117 = 1.17 kg	kg	1.17	435.75	509.83
Total cost of materials					1310.35
Cartage @ 1 % of A1					13.10
LABOUR					
1001	Wireman	day	0.170	447.00	75.99
1007	Khallasi	day	0.170	368.00	62.56
1012	Beldar/ coolie	day	0.33	368.00	121.44
TOTAL					1583.44

OVERHEADS & PROFIT @ 15 %	237.52
Cost for 10 Metre	1820.96
Rate per Metre	182.10
Say	182.00

5.14 Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2902	25 mm X 5 mm copper tape (1.15 kg/mtr) = 10x1.15 = 11.5 kg	kg	11.50	430.50	4950.75
2906	Copper saddle	each	17.00	26.25	446.25
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.00	0.40	13.60
2857	PVC fastener 40mm long	each	17.00	0.28	4.76
Total cost of materials					5415.36
Cartage @ 1 % of A1					54.15
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1010	Mason, Grade 2	day	0.25	407.00	101.75
1007	Khallasi	day	0.75	368.00	276.00
TOTAL					6070.76
OVERHEADS & PROFIT @ 15 %					910.61
Cost for 10 Metre					6981.37
Rate per Metre					698.14
Say					698.00

5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2912	25 mm X 5 mm G.I. strip (1.0 kg/mtr) = 10x1.0 = 10.0 + 0.5 (Wastage @ 5%) = 10.5kg	kg	10.50	44.10	463.05
2917	GI saddle 20mm x 3mm	each	17.00	2.00	34.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.00	0.40	13.60
2857	PVC fastener 40mm long	each	17.00	0.28	4.76
Total cost of materials					515.41
Cartage @ 1 % of A1					5.15
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1010	Mason, Grade 2	day	0.25	407.00	101.75
1007	Khallasi	day	0.75	368.00	276.00
TOTAL					1121.81

OVERHEADS & PROFIT @ 15 %	168.27
Cost for 10 Metre	1290.08
Rate per Metre	129.01
Say	129.00

5.16 Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.

Details of cost for 50 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2916	6 SWG G.I. wire = 50x0.147 = 7.35 + 0.37 (Wastage @ 5%) = 7.72kg	kg	7.72	52.50	405.30
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	each	85.00	2.00	170.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
Total cost of materials					599.10
Cartage @ 1 % of A1					5.99
LABOUR					
1001	Wireman	day	0.75	447.00	335.25
1010	Mason, Grade 2	day	0.50	407.00	203.50
1007	Khallas	day	1.25	368.00	460.00
TOTAL					1603.84
OVERHEADS & PROFIT @ 15 %					240.58
Cost for 50 Metre					1844.42
Rate per Metre					36.89
Say					37.00

5.17 Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.

Details of cost for 50 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2904	8 SWG copper wire (4.0 mm dia) (0.117 kg/mtr) = 50x0.117 = 5.85 kg	kg	5.85	435.75	2549.14
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	each	85.00	2.00	170.00
2857	PVC fastener 40mm long	each	85.00	0.28	23.80
Total cost of materials					2742.94
Cartage @ 1 % of A1					27.43
LABOUR					
1001	Wireman	day	0.75	447.00	335.25
1010	Mason, Grade 2	day	0.50	407.00	203.50
1007	Khallas	day	1.25	368.00	460.00
TOTAL					3769.12

OVERHEADS & PROFIT @ 15 %	565.37
Cost for 50 Metre	4334.49
Rate per Metre	86.69
Say	87.00

5.18 Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.

Details of cost for 50 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2916	6 SWG G.I. wire (0.147 kg/mtr) = 50x0.147 = 7.35 + 0.37 (Wastage @ 5%) = 7.72kg	kg	7.72	52.50	405.30
Total cost of materials					405.30
Cartage @ 1 % of A1					4.05
LABOUR					
1001	Wireman	day	0.75	447.00	335.25
1007	Khallasi	day	0.75	368.00	276.00
TOTAL					1020.60
OVERHEADS & PROFIT @ 15 %					153.09
Cost for 50 Metre					1173.69
Rate per Metre					23.47
Say					23.00

5.19 Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.

Details of cost for 50 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2904	8 SWG copper wire (4.0 mm dia) (0.117 kg/mtr) = 50x0.117 = 5.85 kg	kg	5.85	435.75	2549.14
Total cost of materials					2549.14
Cartage @ 1 % of A1					25.49
LABOUR					
1001	Wireman	day	0.75	447.00	335.25
1007	Khallasi	day	0.75	368.00	276.00
TOTAL					3185.88
OVERHEADS & PROFIT @ 15 %					477.88
Cost for 50 Metre					3663.76
Rate per Metre					73.28
Say					73.00

5.20 Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2907	50 mm X 5mm copper strip (2.30 kg/mtr) = 10x2.30 = 23.00 kg	kg	23.00	430.50	9901.50
2906	Copper saddle	each	17.00	26.25	446.25
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.00	0.40	13.60
2857	PVC fastener 40mm long	each	17.00	0.28	4.76
Total cost of materials					10366.11
Cartage @ 1 % of A1					103.66
LABOUR					
1001	Wireman	day	0.60	447.00	268.20
1010	Mason, Grade 2	day	0.25	407.00	101.75
1007	Khallasi	day	0.85	368.00	312.80
TOTAL					11152.52
OVERHEADS & PROFIT @ 15 %					1672.88
Cost for 10 Metre					12825.40
Rate per Meter					1282.54
Say					1283.00

CHAPTER 6 – LIGHTNING CONDUCTOR

6.1 Deleted

6.2 Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.

Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2910	Lightning finial, 25 mm dia X 300 mm long, G.I.	each	1.00	115.50	115.50
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
Total cost of materials					135.50
Cartage @ 1 % of A1					1.36
LABOUR					
1001	Wireman	day	0.08	447.00	35.76
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					264.06
OVERHEADS & PROFIT @ 15 %					39.61
TOTAL					303.67
Rate for 1 No.					303.67
Say					304.00

6.3 Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.

Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
Total cost of materials					20.00
Cartage @ 1 % of A1					0.20
LABOUR					
1001	Wireman	day	0.08	447.00	35.76
1010	Mason, Grade 2	day	0.08	407.00	32.56
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					147.40
OVERHEADS & PROFIT @ 15 %					22.11
TOTAL					169.51
Rate for 1 No.					169.51
Say					170.00

- 6.4 Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc. as required.
Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2860	6 mm dia rivet/ stud/ bolts and nuts	each	2.00	3.00	6.00
2940	Tin solder etc.	L.S.	1.00	5.00	5.00
Total cost of materials					11.00
Cartage @ 1 % of A1					0.11
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.05	368.00	18.40
TOTAL					49.86
OVERHEADS & PROFIT @ 15 %					7.48
TOTAL					57.34
Rate for 1 No.					57.34
Say					57.00

6.5 DELETED

6.6 DELETED

- 6.7 Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required.(For horizontal run)

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2911	20 mm X 3 mm G.I. Tape (0.461 kg/mtr) =10+0.50(wastage@5%)=10.50m@0.461 kg/m =4.84 kg	kg	4.84	48.30	233.77
2917	GI saddle 20mm x 3mm	each	10.00	2.00	20.00
2857	PVC fastener 40mm long	each	10.00	0.28	2.80
2852	Iron screws, 35 mm X 6 mm	each	10.00	0.95	9.50
Total cost of materials					266.07
Cartage @ 1 % of A1					2.66
LABOUR					
1001	Wireman	day	0.25	447.00	111.75
1010	Mason, Grade 2	day	0.130	407.00	52.91
1007	Khallasi	day	0.380	368.00	139.84
TOTAL					573.23
OVERHEADS & PROFIT @ 15 %					85.98
Cost for 10 Metre					659.21
Rate per Metre					65.92
Say					66.00

6.8 Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required.(For vertical run)

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2911	20 mm X 3 mm G.I. Tape (0.461 kg/mtr) =10+0.50(wastage@5%) =10.50m@ 0.461 kg/m =4.84 kg	kg	4.84	48.30	233.77
2917	GI saddle 20mm x 3mm	each	11.00	2.00	22.00
2857	PVC fastener 40mm long	each	11.00	0.28	3.08
2852	Iron screws, 35 mm X 6 mm	each	11.00	0.95	10.45
Total cost of materials					269.30
Cartage @ 1 % of A1					2.69
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1010	Mason, Grade 2	day	0.25	407.00	101.75
1007	Khallasi	day	0.75	368.00	276.00
TOTAL					873.24
OVERHEADS & PROFIT @ 15 %					130.99
Cost for 10 Metre					1004.23
Rate per Metre					100.42
Say					100.00

6.9 Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required.(For horizontal run)

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2917	GI saddle 20mm x 3mm	each	10.00	2.00	20.00
2857	PVC fastener 40mm long	each	10.00	0.28	2.80
2852	Iron screws, 35 mm X 6 mm	each	10.00	0.95	9.50
Total cost of materials					32.30
Cartage @ 1 % of A1					0.32
LABOUR					
1001	Wireman	day	0.25	447.00	111.75
1010	Mason, Grade 2	day	0.130	407.00	52.91
1007	Khallasi	day	0.380	368.00	139.84
TOTAL					337.12
OVERHEADS & PROFIT @ 15 %					50.57
Cost for 10 Metre					387.69
Rate per Metre					38.77
Say					39.00

6.10 Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required.(For vertical run)

Details of cost for 10 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2917	GI saddle 20mm x 3mm	each	11.00	2.00	22.00
2857	PVC fastener 40mm long	each	11.00	0.28	3.08
2935	Cement, paint, sand etc.	L.S.	11.00	4.50	49.50
2852	Iron screws, 35 mm X 6 mm	each	11.00	0.95	10.45
Total cost of materials					85.03
Cartage @ 1 % of A1					0.85
LABOUR					
1001	Wireman	day	0.50	447.00	223.50
1010	Mason, Grade 2	day	0.25	407.00	101.75
1007	Khallas	day	0.75	368.00	276.00
TOTAL					687.13
OVERHEADS & PROFIT @ 15 %					103.07
Cost for 10 Metre					790.20
Rate per Metre					79.02
Say					79.00

6.11 DELETED

6.12 Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.

Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2911	20 mm X 3 mm G.I. Tape (0.461 kg/mtr) = 0.125 + 0.006 (Wastage @ 5%) = 0.131m @ 0.461kg/m = 0.067 kg	kg	0.06	48.30	2.90
2866	10 mm X 25 mm long G.I. bolt with nut etc	each	4.00	9.00	36.00
Total cost of materials					38.90
Cartage @ 1 % of A1					0.39
LABOUR					
1001	Wireman	day	0.030	447.00	13.41
1007	Khallas	day	0.030	368.00	11.04
TOTAL					63.74
OVERHEADS & PROFIT @ 15 %					9.56
TOTAL					73.30
Rate for 1 No.					73.30
Say					73.00

6.13 DELETED**6.14 Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.****Details of cost for 10 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2914	32 mm X 6 mm G.I. Tape (1.475 kg/mtr) = 10 + 0.50 (wastage @ 5%) = 10.50m @ 1.475 kg/m = 15.49 kg	kg	15.49	42.00	650.58
Total cost of materials					650.58
Cartage @ 1 % of A1					6.51
LABOUR					
1001	Wireman	day	0.165	447.00	73.76
1007	Khallasi	day	0.165	368.00	60.72
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					975.57
OVERHEADS & PROFIT @ 15 %					146.33
Cost for 10 Metre					1121.90
Rate per Metre					112.19
Say					112.00

6.15 Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.**Details of cost for 10 Metres**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	0.165	447.00	73.76
1007	Khallasi	day	0.165	368.00	60.72
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					318.48
OVERHEADS & PROFIT @ 15 %					47.77
Cost for 10 Metre					366.25
Rate per Metre					36.63
Say					37.00

CHAPTER 7 – MV CABLE LAYING

7.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.

7.1.1 Upto 35 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	8.76	672.00	5886.72
Total cost of materials					8640.72
Cartage @ 1 % of A1					86.41
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					10646.13
OVERHEADS & PROFIT @ 15 %					1596.92
TOTAL					12243.05
14.4	Excavation including refilling as required Cost for 100 Meters Rate per Meter Say	cum	26.26	318.00	8350.68 20593.73 205.94 206.00

7.1.2 Above 35 sq. mm and upto 95 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	8.76	672.00	5886.72
Total cost of materials					8640.72
Cartage @ 1 % of A1					86.41
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	6.00	368.00	2208.00
TOTAL					11382.13
OVERHEADS & PROFIT @ 15 %					1707.32
TOTAL					13089.45
14.4	Excavation including refilling as required	cum	26.26	318.00	8350.68

Cost for 100 Meters	21440.13
Rate per Meter	214.40
Say	214.00

7.1.3 Above 95 sq. mm and upto 185 sq. mm
Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	8.76	672.00	5886.72
Total cost of materials					8640.72
Cartage @ 1 % of A1					86.41
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	8.00	368.00	2944.00
TOTAL					12118.13
OVERHEADS & PROFIT @ 15 %					1817.72
TOTAL					13935.85
14.4	Excavation including refilling as required	cum	26.26	318.00	8350.68
Cost for 100 Meters					22286.53
Rate per Meter					222.87
Say					223.00

7.1.4 Above 185 sq. mm and upto 400 sq. mm
Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	8.76	672.00	5886.72
Total cost of materials					8640.72
Cartage @ 1 % of A1					86.41
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	14.00	368.00	5152.00
TOTAL					14326.13
OVERHEADS & PROFIT @ 15 %					2148.92
TOTAL					16475.05
14.4	Excavation including refilling as required	cum	26.26	318.00	8350.68
Cost for 100 Meters					24825.73
Rate per Meter					248.26
Say					248.00

7.2 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as required.

7.2.1 Upto 35 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	5.00	672.00	3360.00
Total cost of materials					6114.00
Cartage @ 1 % of A1					61.14
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					8094.14
OVERHEADS & PROFIT @ 15 %					1214.12
TOTAL					9308.26
14.4	Excavation including refilling as required Cost for 100 Meters	cum	15.00	318.00	4770.00 14078.26
Rate per Meter					140.78
Say					141.00

7.2.2 Above 35 sq. mm and upto 95 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	5.00	672.00	3360.00
Total cost of materials					6114.00
Cartage @ 1 % of A1					61.14
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	6.00	368.00	2208.00
TOTAL					8830.14
OVERHEADS & PROFIT @ 15 %					1324.52
TOTAL					10154.66
14.4	Excavation including refilling as required Cost for 100 Meters	cum	15.00	318.00	4770.00 14924.66

Rate per Meter	149.25
Say	149.00

7.2.3 Above 95 sq. mm and upto 185 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	5.00	672.00	3360.00
Total cost of materials					6114.00
Cartage @ 1 % of A1					61.14
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	8.00	368.00	2944.00
TOTAL					9566.14
OVERHEADS & PROFIT @ 15 %					1434.92
TOTAL					11001.06
14.4	Excavation including refilling as required	cum	15.00	318.00	4770.00
Cost for 100 Meters					15771.06
Rate per Meter					157.71
Say					158.00

7.2.4 Above 185 sq. mm and upto 400 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	5.00	672.00	3360.00
Total cost of materials					6114.00
Cartage @ 1 % of A1					61.14
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	14.00	368.00	5152.00
TOTAL					11774.14
OVERHEADS & PROFIT @ 15 %					1766.12
TOTAL					13540.26
14.4	Excavation including refilling as required	cum	15.00	318.00	4770.00
Cost for 100 Meters					18310.26
Rate per Meter					183.10
Say					183.00

7.3 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation and refilling the trench etc. as required, but excluding sand cushioning and protective covering.

7.3.1 Upto 35 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	2.00	368.00	736.00
	TOTAL				1183.00
	OVERHEADS & PROFIT @ 15 %				177.45
	TOTAL				1360.45
14.4	Excavation including refilling as required	cum	26.26	318.00	8350.68
	Cost for 100 Meters				9711.13
	Rate per Meter				97.11
	Say				97.00

7.3.2 Above 35 sq. mm and upto 95 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				1919.00
	OVERHEADS & PROFIT @ 15 %				287.85
	TOTAL				2206.85
14.4	Excavation including refilling as required	cum	26.26	318.00	8350.68
	Cost for 100 Meters				10557.53
	Rate per Meter				105.58
	Say				106.00

7.3.3 Above 95 sq. mm and upto 185 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	6.00	368.00	2208.00
	TOTAL				2655.00
	OVERHEADS & PROFIT @ 15 %				398.25
	TOTAL				3053.25
14.4	Excavation including refilling as required	cum	26.26	318.00	8350.68
	Cost for 100 Meters				11403.93
	Rate per Meter				114.04
	Say				114.00

7.3.4 Above 185 sq. mm and upto 400 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	12.00	368.00	4416.00
TOTAL					4863.00
OVERHEADS & PROFIT @ 15 %					729.45
TOTAL					5592.45
14.4	Excavation including refilling as required	cum	26.26	318.00	8350.68
Cost for 100 Meters					13943.13
Rate per Meter					139.43
Say					139.00

7.4 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation and refilling the trench etc. as required, but excluding sand cushioning and protective covering.

7.4.1 Upto 35 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	2.00	368.00	736.00
TOTAL					1183.00
OVERHEADS & PROFIT @ 15 %					177.45
TOTAL					1360.45
14.4	Excavation including refilling as required	cum	15.00	318.00	4770.00
Cost for 100 Meters					6130.45
Rate per Meter					61.30
Say					61.00

7.4.2 Above 35 sq. mm and upto 95 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					1919.00
OVERHEADS & PROFIT @ 15 %					287.85
TOTAL					2206.85
14.4	Excavation including refilling as required	cum	15.00	318.00	4770.00
Cost for 100 Meters					6976.85

Rate per Meter	69.77
Say	70.00

7.4.3 Above 95 sq. mm and upto 185 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	6.00	368.00	2208.00
TOTAL					2655.00
OVERHEADS & PROFIT @ 15 %					398.25
TOTAL					3053.25
14.4	Excavation including refilling as required	cum	15.00	318.00	4770.00
Cost for 100 Meters					7823.25
Rate per Meter					78.23
Say					78.00

7.4.4 Above 185 sq. mm and upto 400 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	12.00	368.00	4416.00
TOTAL					4863.00
OVERHEADS & PROFIT @ 15 %					729.45
TOTAL					5592.45
14.4	Excavation including refilling as required	cum	15.00	318.00	4770.00
Cost for 100 Meters					10362.45
Rate per Meter					103.62
Say					104.00

7.5 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.**7.5.1 Upto 35 sq. mm****Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	3.00	368.00	1104.00
TOTAL					1551.00
OVERHEADS & PROFIT @ 15 %					232.65
Cost for 100 Meters					1783.65
Rate per Meter					17.84
Say					18.00

7.5.2 Above 35 sq. mm and upto 95 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.25	447.00	558.75
1007	Khallasi	day	5.00	368.00	1840.00
TOTAL					2398.75
OVERHEADS & PROFIT @ 15 %					359.81
Cost for 100 Meters					2758.56
Rate per Meter					27.59
Say					28.00

7.5.3 Above 95 sq. mm and upto 185 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	7.00	368.00	2576.00
TOTAL					3246.50
OVERHEADS & PROFIT @ 15 %					486.98
Cost for 100 Meters					3733.48
Rate per Meter					37.33
Say					37.00

7.5.4 Above 185 sq. mm and upto 400 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1007	Khallasi	day	13.00	368.00	4784.00
TOTAL					5678.00
OVERHEADS & PROFIT @ 15 %					851.70
Cost for 100 Meters					6529.70
Rate per Meter					65.30
Say					65.00

7.6 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing masonry open duct as required.**7.6.1 Upto 35 sq. mm****Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.00	447.00	447.00

1007	Khallasi	day	2.00	368.00	736.00
	TOTAL				1183.00
	OVERHEADS & PROFIT @ 15 %				177.45
	Cost for 100 Meters				1360.45
	Rate per Meter				13.60
	Say				14.00

7.6.2 Above 35 sq. mm and upto 95 sq. mm
Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				1919.00
	OVERHEADS & PROFIT @ 15 %				287.85
	Cost for 100 Meters				2206.85
	Rate per Meter				22.07
	Say				22.00

7.6.3 Above 95 sq. mm and upto 185 sq. mm
Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	6.00	368.00	2208.00
	TOTAL				2655.00
	OVERHEADS & PROFIT @ 15 %				398.25
	Cost for 100 Meters				3053.25
	Rate per Meter				30.53
	Say				31.00

7.6.4 Above 185 sq. mm and upto 400 sq. mm
Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	12.00	368.00	4416.00
	TOTAL				4863.00
	OVERHEADS & PROFIT @ 15 %				729.45
	Cost for 100 Meters				5592.45
	Rate per Meter				55.92
	Say				56.00

7.7 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on wall surface as required.

7.7.1 Upto 35 sq. mm (clamped with 1mm thick saddle)

Details of cost for 100 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2881	GI saddles 19mm x 0.55mm for conduit = $100/0.45 = 222 + 4$ (Wastage @ 2%) = 226 Nos	each	226.00	0.85	192.10
2854	Iron screws, 45 mm X 6 mm	each	452.00	1.00	452.00
2857	PVC fastener 40mm long	each	452.00	0.28	126.56
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
Total cost of materials					779.66
Cartage @ 1 % of A1					7.80
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1010	Mason, Grade 2	day	0.50	407.00	203.50
1007	Khallasi	day	2.00	368.00	736.00
TOTAL					2173.96
OVERHEADS & PROFIT @ 15 %					326.09
Cost for 100 Metre					2500.05
Rate per Metre					25.00
Say					25.00

7.7.2 Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)

Details of cost for 100 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2862	32mm X 8mm bolts & nuts = $2 \times (100/0.6) = 334 + 16$ (Wastage @ 5%) = 350 Nos	each	350.00	4.00	1400.00
2809	20/25 mm X 3 mm flat iron = $84 \times 0.16m = 13.44m @ 0.337kg/m$ = 4.53 kg	kg	9.06	37.80	342.47
2855	Steel fastener 6 mm X 75 mm	each	336.00	5.00	1680.00
Total cost of materials					3422.47
Cartage @ 1 % of A1					34.22
LABOUR					
1001	Wireman	day	1.25	447.00	558.75
1005	Fitter, Grade 2	day	0.33	407.00	134.31
1009	Blacksmith, Grade 2	day	0.33	407.00	134.31
1010	Mason, Grade 2	day	0.33	407.00	134.31
1007	Khallasi	day	5.00	368.00	1840.00

TOTAL	6258.37
OVERHEADS & PROFIT @ 15 %	938.76
Cost for 100 Metre	7197.13
Rate per Metre	71.97
Say	72.00

7.7.3 Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)
Details of cost for 100 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2862	32mm X 8mm bolts & nuts = $2 \times (100/0.6) = 334 + 16$ (Wastage @ 5%) = 350 Nos	each	350.00	4.00	1400.00
2809	20/25 mm X 3 mm flat iron = $84 \times 0.24m = 20.16m$ @ 0.337kg/m = 6.79 kg	kg	13.58	37.80	513.32
2855	Steel fastener 6 mm X 75 mm	each	336.00	5.00	1680.00
Total cost of materials					3593.32
Cartage @ 1 % of A1					35.93
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1005	Fitter, Grade 2	day	0.33	407.00	134.31
1009	Blacksmith, Grade 2	day	0.33	407.00	134.31
1010	Mason, Grade 2	day	0.33	407.00	134.31
1007	Khallasi	day	7.00	368.00	2576.00
TOTAL					7278.68
OVERHEADS & PROFIT @ 15 %					1091.80
Cost for 100 Metre					8370.48
Rate per Metre					83.70
Say					84.00

7.7.4 Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)
Details of cost for 100 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2862	32mm X 8mm bolts & nuts = $2 \times (100/0.6) = 334 + 16$ (Wastage @ 5%) = 350 Nos	each	350.00	4.00	1400.00
2812	40 mm X 3 mm flat iron = $84 \times 0.24m = 20.16m$ @ 0.547kg/m = 11.03 kg	kg	22.06	37.80	833.87
2855	Steel fastener 6 mm X 75 mm	each	336.00	5.00	1680.00
Total cost of materials					3913.87
Cartage @ 1 % of A1					39.14

LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1005	Fitter, Grade 2	day	0.50	407.00	203.50
1009	Blacksmith, Grade 2	day	0.50	407.00	203.50
1010	Mason, Grade 2	day	0.50	407.00	203.50
1007	Khallasi	day	13.50	368.00	4968.00
TOTAL					10425.51
OVERHEADS & PROFIT @ 15 %					1563.83
Cost for 100 Metre					11989.34
Rate per Metre					119.89
Say					120.00

7.8 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on cable tray as required.

7.8.1 Upto 35 sq. mm (clamped with 1mm thick saddle)

Details of cost for 100 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2881	GI saddles 19mm x 0.55mm for conduit = $100/0.45 = 222 + 4$ (Wastage @ 2%) = 226 Nos	each	226.00	0.85	192.10
2854	Iron screws, 45 mm X 6 mm	each	452.00	1.00	452.00
2935	Cement, paint, sand etc.	L.S.	2.00	4.50	9.00
Total cost of materials					653.10
Cartage @ 1 % of A1					6.53
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	2.00	368.00	736.00
TOTAL					1842.63
OVERHEADS & PROFIT @ 15 %					276.39
Cost for 100 Metre					2119.02
Rate per Metre					21.19
Say					21.00

7.8.2 Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)

Details of cost for 100 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2862	32mm X 8mm bolts & nuts = $2 \times (100/0.6) = 334 + 16$ (Wastage @ 5%) = 350 Nos	each	350.00	4.00	1400.00
2809	20/25 mm X 3 mm flat iron = $84 \times 0.16m = 13.44m$ @ 0.337kg/m = 4.53 kg	kg	9.06	37.80	342.47

Total cost of materials					1742.47
Cartage @ 1 % of A1					17.42
LABOUR					
1001	Wireman	day	1.25	447.00	558.75
1005	Fitter, Grade 2	day	0.33	407.00	134.31
1009	Blacksmith, Grade 2	day	0.33	407.00	134.31
1007	Khallasi	day	4.66	368.00	1714.88
TOTAL					4302.14
OVERHEADS & PROFIT @ 15 %					645.32
Cost for 100 Metre					4947.46
Rate per Metre					49.47
Say					49.00

7.8.3 Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)
Details of cost for 100 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	each	350.00	4.00	1400.00
2809	20/25 mm X 3 mm flat iron = 84 x 0.24m = 20.16m @ 0.337kg/m = 6.79kg	kg	13.58	37.80	513.32
Total cost of materials					1913.32
Cartage @ 1 % of A1					19.13
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1005	Fitter, Grade 2	day	0.33	407.00	134.31
1009	Blacksmith, Grade 2	day	0.33	407.00	134.31
1007	Khallasi	day	6.66	368.00	2450.88
TOTAL					5322.45
OVERHEADS & PROFIT @ 15 %					798.37
Cost for 100 Metre					6120.82
Rate per Metre					61.21
Say					61.00

7.8.4 Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)
Details of cost for 100 Metres

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	each	350.00	4.00	1400.00

CHAPTER-7 : MV CABLE LAYING

2812	40 mm X 3 mm flat iron = 84 x 0.24m = 20.16m @ 0.547kg/m = 11.03 kg	kg	22.06	37.80	833.87
	Total cost of materials				2233.87
	Cartage @ 1 % of A1				22.34
	LABOUR				
1001	Wireman	day	2.00	447.00	894.00
1005	Fitter, Grade 2	day	0.50	407.00	203.50
1009	Blacksmith, Grade 2	day	0.50	407.00	203.50
1007	Khallasi	day	13.00	368.00	4784.00
	TOTAL				8341.21
	OVERHEADS & PROFIT @ 15 %				1251.18
	Cost for 100 Metre				9592.39
	Rate per Metre				95.92
	Say				96.00

- 7.9 Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.**

Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1010	Mason, Grade 2	day	0.12	407.00	48.84
1007	Khallasi	day	0.12	368.00	44.16
	TOTAL				93.00
	OVERHEADS & PROFIT @ 15 %				13.95
	TOTAL				106.95
14.4	Excavation including refilling as required	cum	0.22	318.00	69.96
14.7	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	0.03	5207.00	156.21
	TOTAL				333.12
	Rate per Each				333.12
	Say				333.00

- 7.10 Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.**

Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2926	G.I. plate (10 cm X 10 cm X 5 mm)	kg	0.39	46.00	17.94
2806	35 mm X 35 mm X 5 mm angle iron	kg	1.97	37.80	74.47
2868	16 mm X 40 mm bolts and nuts with washers	set	2.00	6.00	12.00

2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				108.41
	Cartage @ 1 % of A1				1.08
	LABOUR				
1005	Fitter, Grade 2	day	0.12	407.00	48.84
1006	Painter	day	0.077	407.00	31.34
1007	Khallasi	day	0.12	368.00	44.16
	TOTAL				233.83
	OVERHEADS & PROFIT @ 15 %				35.08
	TOTAL				268.91
	Rate per Each				268.91
	Say				269.00

CHAPTER 8 – H V CABLE LAYING

8.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.

8.1.1 Upto 120 sq. mm.

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos.	each	918.00	3.00	2754.00
2946	Fine sand	cum	8.76	672.00	5886.72
Total cost of materials					8640.72
Cartage @ 1 % of A1					86.41
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	8.00	368.00	2944.00
TOTAL					12118.13
OVERHEADS & PROFIT @ 15 %					1817.72
TOTAL					13935.85
14.4	Excavation including refilling as required Cost for 100 Meters Rate per Meter Say	cum	42.00	318.00	13356.00 27291.85 272.92 273.00

8.1.2 Above 120 sq. mm and upto 400 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos.	each	918.00	3.00	2754.00
2946	Fine sand	cum	8.76	672.00	5886.72
Total cost of materials					8640.72
Cartage @ 1 % of A1					86.41
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	14.00	368.00	5152.00
TOTAL					14326.13
OVERHEADS & PROFIT @ 15 %					2148.92
TOTAL					16475.05
14.4	Excavation including refilling as required	cum	42.00	318.00	13356.00

Cost for 100 Meters	29831.05
Rate per Meter	298.31
Say	298.00

8.2 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as required.

8.2.1 Upto 120 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos.	each	918.00	3.00	2754.00
2946	Fine sand	cum	5.00	672.00	3360.00
Total cost of materials					6114.00
Cartage @ 1 % of A1					61.14
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	8.00	368.00	2944.00
TOTAL					9566.14
OVERHEADS & PROFIT @ 15 %					1434.92
TOTAL					11001.06
14.4	Excavation including refilling as required	cum	24.00	318.00	7632.00
Cost for 100 Meters					18633.06
Rate per Meter					186.33
Say					186.00

8.2.2 Above 120 sq. mm and upto 400 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos.	each	918.00	3.00	2754.00
2946	Fine sand	cum	5.00	672.00	3360.00
Total cost of materials					6114.00
Cartage @ 1 % of A1					61.14
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	14.00	368.00	5152.00
TOTAL					11774.14

	OVERHEADS & PROFIT @ 15 %				1766.12
	TOTAL				13540.26
14.4	Excavation including refilling as required	cum	24.00	318.00	7632.00
	Cost for 100 Meters				21172.26
	Rate per Meter				211.72
	Say				212.00

8.3 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.

8.3.1 Upto 120 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	7.00	368.00	2576.00
	TOTAL				3246.50
	OVERHEADS & PROFIT @ 15 %				486.98
	Cost for 100 Meters				3733.48
	Rate per Meter				37.33
	Say				37.00

8.3.2 Above 120 sq. mm and upto 400 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1001	Wireman	day	2.00	447.00	894.00
1007	Khallasi	day	13.00	368.00	4784.00
	TOTAL				5678.00
	OVERHEADS & PROFIT @ 15 %				851.70
	Cost for 100 Meters				6529.70
	Rate per Meter				65.30
	Say				65.00

8.4 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of following size in the existing masonry open duct as required.

8.4.1 Upto 120 sq. mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	6.00	368.00	2208.00
	TOTAL				2655.00
	OVERHEADS & PROFIT @ 15 %				398.25

Cost for 100 Meters	3053.25
Rate per Meter	30.53
Say	31.00

8.4.2 Above 120 sq. mm and upto 400 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.00	447.00	447.00
1007	Khallasi	day	12.00	368.00	4416.00
TOTAL					4863.00
OVERHEADS & PROFIT @ 15 %					729.45
Cost for 100 Meters					5592.45
Rate per Meter					55.92
Say					56.00

8.5 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.**8.5.1 Upto 120 sq. mm****Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	8.76	672.00	5886.72
Total cost of materials					8640.72
Cartage @ 1 % of A1					86.41
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	8.00	368.00	2944.00
TOTAL					12341.63
OVERHEADS & PROFIT @ 15 %					1851.24
TOTAL					14192.87
14.4	Excavation including refilling as required	cum	42.00	318.00	13356.00
Cost for 100 Meters					27548.87
Rate per Meter					275.49
Say					275.00

8.5.2 Above 120 sq. mm and upto 400 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	8.76	672.00	5886.72
Total cost of materials					8640.72
Cartage @ 1 % of A1					86.41
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	14.00	368.00	5152.00
TOTAL					14549.63
OVERHEADS & PROFIT @ 15 %					2182.44
TOTAL					16732.07
14.4	Excavation including refilling as required	cum	42.00	318.00	13356.00
Cost for 100 Meters					30088.07
Rate per Meter					300.88
Say					301.00

8.6 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 33 kV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as required.

8.6.1 Upto 120 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	5.00	672.00	3360.00
Total cost of materials					6114.00
Cartage @ 1 % of A1					61.14
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	8.00	368.00	2944.00
TOTAL					9789.64
OVERHEADS & PROFIT @ 15 %					1468.45
TOTAL					11258.09
14.4	Excavation including refilling as required	cum	24.00	318.00	7632.00
Cost for 100 Meters					18890.09

Rate per Meter	188.90
Say	189.00

8.6.2 Above 120 sq. mm and upto 400 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	3.00	2754.00
2946	Fine sand	cum	5.00	672.00	3360.00
Total cost of materials					6114.00
Cartage @ 1 % of A1					61.14
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	14.00	368.00	5152.00
TOTAL					11997.64
OVERHEADS & PROFIT @ 15 %					1799.65
TOTAL					13797.29
14.4	Excavation including refilling as required	cum	24.00	318.00	7632.00
Cost for 100 Meters					21429.29
Rate per Meter					214.29
Say					214.00

8.7 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.**8.7.1 Upto 120 sq. mm****Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	2.00	447.00	894.00
1007	Khallasi	day	7.00	368.00	2576.00
TOTAL					3470.00
OVERHEADS & PROFIT @ 15 %					520.50
Cost for 100 Meters					3990.50
Rate per Meter					39.91
Say					40.00

8.7.2 Above 120 sq. mm and upto 400 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	2.50	447.00	1117.50
1007	Khallasi	day	13.00	368.00	4784.00
TOTAL					5901.50
OVERHEADS & PROFIT @ 15 %					885.23
Cost for 100 Meters					6786.73
Rate per Meter					67.87
Say					68.00

8.8 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 kV grade of following size in the existing masonry open duct as required.**8.8.1 Upto 120 sq. mm****Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	6.00	368.00	2208.00
TOTAL					2878.50
OVERHEADS & PROFIT @ 15 %					431.78
Cost for 100 Meters					3310.28
Rate per Meter					33.10
Say					33.00

8.8.2 Above 120 sq. mm and upto 400 sq. mm**Details of cost for 100 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1001	Wireman	day	1.50	447.00	670.50
1007	Khallasi	day	12.00	368.00	4416.00
TOTAL					5086.50
OVERHEADS & PROFIT @ 15 %					762.98
Cost for 100 Meters					5849.48
Rate per Meter					58.49
Say					58.00

CHAPTER 9 – MV CABLE JOINTING & END TERMINATION

9.1 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.

9.1.1 2 X 6 sq. mm (19mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2101	Brass compression gland (19 mm) for 2 X 6 sq. mm 1.1 kV grade cable	set	1	51.19	51.19
2201	Aluminium lugs for 6 sq. mm cable	each	2.00	1.59	3.18
Total cost of materials					54.37
Cartage @ 1 % of A1					0.54
LABOUR					
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					136.41
OVERHEADS & PROFIT @ 15 %					20.46
TOTAL					156.87
Rate per Set					156.87
Say					157.00

9.1.2 2 X 10 sq. mm (19mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2102	Brass compression gland (19 mm) for 2 X 10 sq. mm 1.1 kV grade cable	set	1	51.19	51.19
2202	Aluminium lugs for 10 sq. mm cable	each	2.00	2.06	4.11
Total cost of materials					55.30
Cartage @ 1 % of A1					0.55
LABOUR					
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					137.35
OVERHEADS & PROFIT @ 15 %					20.60
TOTAL					157.95
Rate per Set					157.95
Say					158.00

9.1.3 2 X 16 sq. mm (22mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2103	Brass compression gland for (22 mm) 2 X 16 sq. mm 1.1 kV grade cable	set	1	60.43	60.43
2203	Aluminium lugs for 16 sq. mm cable	each	2.00	2.47	4.95
Total cost of materials					65.38
Cartage @ 1 % of A1					0.65
LABOUR					
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					147.53
OVERHEADS & PROFIT @ 15 %					22.13
TOTAL					169.66
Rate per Set					169.66
Say					170.00

9.1.4 2 X 25 sq. mm (22mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2104	Brass compression gland for (22 mm) 2 X 25 sq. mm 1.1 kV grade cable	set	1	60.43	60.43
2204	Aluminium lugs for 25 sq. mm cable	each	2.00	3.10	6.21
Total cost of materials					66.64
Cartage @ 1 % of A1					0.67
LABOUR					
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					148.81
OVERHEADS & PROFIT @ 15 %					22.32
TOTAL					171.13
Rate per Set					171.13
Say					171.00

9.1.5 2 X 35 sq. mm (25mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2105	Brass compression gland for (25 mm) 2 X 35 sq. mm 1.1 kV grade cable	set	1	86.21	86.21
2205	Aluminium lugs for 35 sq. mm cable	each	2.00	4.10	8.19
Total cost of materials					94.40

	Cartage @ 1 % of A1				0.94
	LABOUR				
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16
	TOTAL				193.14
	OVERHEADS & PROFIT @ 15 %				28.97
	TOTAL				222.11
	Rate per Set				222.11
	Say				222.00

9.1.6 2 X 50 sq. mm (28mm)
Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2106	Brass compression gland for (28 mm) 2 X 50 sq. mm 1.1 kV grade cable	set	1	128.68	128.68
2206	Aluminium lugs for 50 sq. mm cable	each	2.00	6.21	12.43
	Total cost of materials				141.11
	Cartage @ 1 % of A1				1.41
	LABOUR				
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16
	TOTAL				240.32
	OVERHEADS & PROFIT @ 15 %				36.05
	TOTAL				276.37
	Rate per Set				276.37
	Say				276.00

9.1.7 3 X 10 sq. mm (22mm)
Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2107	Brass compression gland for (22 mm) 3 X 10 sq. mm 1.1 kV grade cable	set	1	60.43	60.43
2202	Aluminium lugs for 10 sq. mm cable	each	3.00	2.06	6.17
	Total cost of materials				66.60
	Cartage @ 1 % of A1				0.67
	LABOUR				
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				148.77
	OVERHEADS & PROFIT @ 15 %				22.31
	TOTAL				171.08
	Rate per Set				171.08
	Say				171.00

9.1.8 3 X 16 sq. mm (25mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2108	Brass compression gland for (25 mm) 3 X 16 sq. mm 1.1 kV grade cable	set	1	86.21	86.21
2203	Aluminium lugs for 16 sq. mm cable	each	3.00	2.47	7.42
Total cost of materials					93.63
Cartage @ 1 % of A1					0.94
LABOUR					
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					176.07
OVERHEADS & PROFIT @ 15 %					26.41
TOTAL					202.48
Rate per Set					202.48
Say					202.00

9.1.9 3 X 25 sq. mm (25mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2109	Brass compression gland for (25 mm) 3 X 25 sq. mm 1.1 kV grade cable	set	1	86.21	86.21
2204	Aluminium lugs for 25 sq. mm cable	each	3.00	3.10	9.31
Total cost of materials					95.52
Cartage @ 1 % of A1					0.96
LABOUR					
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					177.98
OVERHEADS & PROFIT @ 15 %					26.70
TOTAL					204.68
Rate per Set					204.68
Say					205.00

9.1.10 3 X 35 sq. mm (28mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2110	Brass compression gland for (28 mm) 3 X 35 sq. mm 1.1 kV grade cable	set	1	128.68	128.68
2205	Aluminium lugs for 35 sq. mm cable	each	3.00	4.10	12.29
Total cost of materials					140.97

	Cartage @ 1 % of A1				1.41
	LABOUR				
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16
	TOTAL				240.18
	OVERHEADS & PROFIT @ 15 %				36.03
	TOTAL				276.21
	Rate per Set				276.21
	Say				276.00

9.1.11 3 X 50 sq. mm (32mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2111	Brass compression gland for (32 mm) 3 X 50 sq. mm 1.1 kV grade cable	set	1	130.62	130.62
2206	Aluminium lugs for 50 sq. mm cable	each	3.00	6.21	18.64
	Total cost of materials				149.26
	Cartage @ 1 % of A1				1.49
	LABOUR				
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16
	TOTAL				248.55
	OVERHEADS & PROFIT @ 15 %				37.28
	TOTAL				285.83
	Rate per Set				285.83
	Say				286.00

9.1.12 3 X 70 sq. mm (35mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2112	Brass compression gland for (35 mm) 3 X 70 sq. mm 1.1 kV grade cable	set	1	186.27	186.27
2207	Aluminium lugs for 70 sq. mm cable	each	3.00	9.30	27.90
	Total cost of materials				214.17
	Cartage @ 1 % of A1				2.14
	LABOUR				
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16
	TOTAL				314.11
	OVERHEADS & PROFIT @ 15 %				47.12
	TOTAL				361.23
	Rate per Set				361.23
	Say				361.00

9.1.13 3 X 95 sq. mm (38mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2113	Brass compression gland for (38 mm) 3 X 95 sq. mm 1.1 kV grade cable	set	1	210.79	210.79
2208	Aluminium lugs for 95 sq. mm cable	each	3.00	10.27	30.81
Total cost of materials					241.60
Cartage @ 1 % of A1					2.42
LABOUR					
1002	Cable jointer	day	0.16	447.00	71.52
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					374.42
OVERHEADS & PROFIT @ 15 %					56.16
TOTAL					430.58
Rate per Set					430.58
Say					431.00

9.1.14 3 X 120 sq. mm (45mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2114	Brass compression gland for (45 mm) 3 X 120 sq. mm 1.1 kV grade cable	set	1	248.90	248.90
2209	Aluminium lugs for 120 sq. mm cable	each	3.00	14.38	43.14
Total cost of materials					292.04
Cartage @ 1 % of A1					2.92
LABOUR					
1002	Cable jointer	day	0.16	447.00	71.52
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					425.36
OVERHEADS & PROFIT @ 15 %					63.80
TOTAL					489.16
Rate per Set					489.16
Say					489.00

9.1.15 3 X 150 sq. mm (50mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2115	Brass compression gland for (50 mm) 3 X 150 sq. mm 1.1 kV grade cable	set	1	314.74	314.74
2210	Aluminium lugs for 150 sq. mm cable	each	3.00	18.61	55.83
Total cost of materials					370.57

	Cartage @ 1 % of A1				3.71
	LABOUR				
1002	Cable jointer	day	0.16	447.00	71.52
1007	Khallasi	day	0.16	368.00	58.88
	TOTAL				504.68
	OVERHEADS & PROFIT @ 15 %				75.70
	TOTAL				580.38
	Rate per Set				580.38
	Say				580.00

9.1.16 3 X 185 sq. mm (57mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2116	Brass compression gland for (57 mm) 3 X 185 sq. mm 1.1 kV grade cable	set	1	450.45	450.45
2211	Aluminium lugs for 185 sq. mm cable	each	3.00	23.27	69.81
	Total cost of materials				520.26
	Cartage @ 1 % of A1				5.20
	LABOUR				
1002	Cable jointer	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				688.46
	OVERHEADS & PROFIT @ 15 %				103.27
	TOTAL				791.73
	Rate per Set				791.73
	Say				792.00

9.1.17 3 X 225 sq. mm (62mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2117	Brass compression gland for (62 mm) 3 X 225 sq. mm 1.1 kV grade cable	set	1	556.71	556.71
2212	Aluminium lugs for 225 sq. mm cable	each	3.00	32.55	97.64
	Total cost of materials				654.35
	Cartage @ 1 % of A1				6.54
	LABOUR				
1002	Cable jointer	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				823.89
	OVERHEADS & PROFIT @ 15 %				123.58
	TOTAL				947.47
	Rate per Set				947.47
	Say				947.00

9.1.18 3 X 240 sq. mm (62mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2118	Brass compression gland for (62 mm) 3 X 240 sq. mm 1.1 kV grade cable	set	1	556.71	556.71
2213	Aluminium lugs for 240 sq. mm cable	each	3.00	39.75	119.26
Total cost of materials					675.97
Cartage @ 1 % of A1					6.76
LABOUR					
1002	Cable jointer	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					845.73
OVERHEADS & PROFIT @ 15 %					126.86
TOTAL					972.59
Rate per Set					972.59
Say					973.00

9.1.19 3 X 300 sq. mm (70mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2119	Brass compression gland for (70 mm) 3 X 300 sq. mm 1.1 kV grade cable	set	1	604.38	604.38
2214	Aluminium lugs for 300 sq. mm cable	each	3.00	55.83	167.48
Total cost of materials					771.86
Cartage @ 1 % of A1					7.72
LABOUR					
1002	Cable jointer	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					942.58
OVERHEADS & PROFIT @ 15 %					141.39
TOTAL					1083.97
Rate per Set					1083.97
Say					1084.00

9.1.20 3½ X 25 sq. mm (28mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2120	Brass compression gland for (28 mm) 3½ X 25 sq. mm 1.1 kV grade cable	set	1	128.68	128.68
2204	Aluminium lugs for 25 sq. mm cable	each	3.00	3.10	9.31

2203	Aluminium lugs for 16 sq. mm cable	each	1.00	2.47	2.47
	Total cost of materials				140.46
	Cartage @ 1 % of A1				1.40
	LABOUR				
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				223.36
	OVERHEADS & PROFIT @ 15 %				33.50
	TOTAL				256.86
	Rate per Set				256.86
	Say				257.00

9.1.21 3½ X 35 sq. mm (32mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2121	Brass compression gland for (32 mm) 3½ X 35 sq. mm 1.1 kV grade cable	set	1	130.62	130.62
2205	Aluminium lugs for 35 sq. mm cable	each	3.00	4.10	12.29
2204	Aluminium lugs for 25 sq. mm cable	each	1.00	3.10	3.10
	Total cost of materials				146.01
	Cartage @ 1 % of A1				1.46
	LABOUR				
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16
	TOTAL				245.27
	OVERHEADS & PROFIT @ 15 %				36.79
	TOTAL				282.06
	Rate per Set				282.06
	Say				282.00

9.1.22 3½ X 50 sq. mm (35mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2122	Brass compression gland for (35 mm) 3½ X 50 sq. mm 1.1 kV grade cable	set	1	186.27	186.27
2206	Aluminium lugs for 50 sq. mm cable	each	3.00	6.21	18.64
2204	Aluminium lugs for 25 sq. mm cable	each	1.00	3.10	3.10
	Total cost of materials				208.01
	Cartage @ 1 % of A1				2.08
	LABOUR				
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16

TOTAL	307.89
OVERHEADS & PROFIT @ 15 %	46.18
TOTAL	354.07
Rate per Set	354.07
Say	354.00

9.1.23 3½ X 70 sq. mm (38mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2123	Brass compression gland for (38 mm) 3½ X 70 sq. mm 1.1 kV grade cable	set	1	210.79	210.79
2207	Aluminium lugs for 70 sq. mm cable	each	3.00	9.30	27.90
2205	Aluminium lugs for 35 sq. mm cable	each	1.00	4.10	4.10
Total cost of materials					242.79
Cartage @ 1 % of A1					2.43
LABOUR					
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16
TOTAL					343.02
OVERHEADS & PROFIT @ 15 %					51.45
TOTAL					394.47
Rate per Set					394.47
Say					394.00

9.1.24 3½ X 95 sq. mm (45mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2124	Brass compression gland for (45 mm) 3½ X 95 sq. mm 1.1 kV grade cable	set	1	248.90	248.90
2208	Aluminium lugs for 95 sq. mm cable	each	3.00	10.27	30.81
2206	Aluminium lugs for 50 sq. mm cable	each	1.00	6.21	6.21
Total cost of materials					285.92
Cartage @ 1 % of A1					2.86
LABOUR					
1002	Cable jointer	day	0.16	447.00	71.52
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					419.18
OVERHEADS & PROFIT @ 15 %					62.88
TOTAL					482.06
Rate per Set					482.06
Say					482.00

9.1.25 3½ X 120 sq. mm (45mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2125	Brass compression gland for (45 mm) 3½ X 120 sq. mm 1.1 kV grade cable	set	1	248.90	248.90
2209	Aluminium lugs for 120 sq. mm cable	each	3.00	14.38	43.14
2207	Aluminium lugs for 70 sq. mm cable	each	1.00	9.30	9.30
Total cost of materials					301.34
Cartage @ 1 % of A1					3.01
LABOUR					
1002	Cable jointer	day	0.16	447.00	71.52
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					434.75
OVERHEADS & PROFIT @ 15 %					65.21
TOTAL					499.96
Rate per Set					499.96
Say					500.00

9.1.26 3½ X 150 sq. mm (50mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2126	Brass compression gland for (50 mm) 3½ X 150 sq. mm 1.1 kV grade cable	set	1	314.74	314.74
2210	Aluminium lugs for 150 sq. mm cable	each	3.00	18.61	55.83
2208	Aluminium lugs for 95 sq. mm cable	each	1.00	10.27	10.27
Total cost of materials					380.84
Cartage @ 1 % of A1					3.81
LABOUR					
1002	Cable jointer	day	0.16	447.00	71.52
1007	Khallasi	day	0.16	368.00	58.88
TOTAL					515.05
OVERHEADS & PROFIT @ 15 %					77.26
TOTAL					592.31
Rate per Set					592.31
Say					592.00

9.1.27 3½ X 185 sq. mm (57mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2127	Brass compression gland for (57 mm) 3½ X 185 sq. mm 1.1 kV grade cable	set	1	450.45	450.45
2211	Aluminium lugs for 185 sq. mm cable	each	3.00	23.27	69.81
2208	Aluminium lugs for 95 sq. mm cable	each	1.00	10.27	10.27
Total cost of materials					530.53
Cartage @ 1 % of A1					5.31
LABOUR					
1002	Cable jointer	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					698.84
OVERHEADS & PROFIT @ 15 %					104.83
TOTAL					803.67
Rate per Set					803.67
Say					804.00

9.1.28 3½ X 225 sq. mm (62mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2128	Brass compression gland for (62 mm) 3½ X 225 sq. mm 1.1 kV grade cable	set	1	556.71	556.71
2212	Aluminium lugs for 225 sq. mm cable	each	3.00	32.55	97.64
2209	Aluminium lugs for 120 sq. mm cable	each	1.00	14.38	14.38
Total cost of materials					668.73
Cartage @ 1 % of A1					6.69
LABOUR					
1002	Cable jointer	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					838.42
OVERHEADS & PROFIT @ 15 %					125.76
TOTAL					964.18
Rate per Set					964.18
Say					964.00

9.1.29 3½ X 240 sq. mm (62mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2129	Brass compression gland for (62 mm) 3½ X 240 sq. mm 1.1 kV grade cable	set	1	556.71	556.71
2213	Aluminium lugs for 240 sq. mm cable	each	3.00	39.75	119.26
2209	Aluminium lugs for 120 sq. mm cable	each	1.00	14.38	14.38
Total cost of materials					690.35
Cartage @ 1 % of A1					6.90
LABOUR					
1002	Cable jointer	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					860.25
OVERHEADS & PROFIT @ 15 %					129.04
TOTAL					989.29
Rate per Set					989.29
Say					989.00

9.1.30 3½ X 300 sq. mm (70mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2130	Brass compression gland for (70 mm) 3½ X 300 sq. mm 1.1 kV grade cable	set	1	604.38	604.38
2214	Aluminium lugs for 300 sq. mm cable	each	3.00	55.83	167.48
2210	Aluminium lugs for 150 sq. mm cable	each	1.00	18.61	18.61
Total cost of materials					790.47
Cartage @ 1 % of A1					7.90
LABOUR					
1002	Cable jointer	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					961.37
OVERHEADS & PROFIT @ 15 %					144.21
TOTAL					1105.58
Rate per Set					1105.58
Say					1106.00

9.1.31 3½ X 400 sq. mm (82mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2131	Brass compression gland for (82 mm) 3½ X 400 sq. mm 1.1 kV grade cable	set	1	760.31	760.31
2215	Aluminium lugs for 400 sq. mm cable	each	3.00	80.68	242.04
2212	Aluminium lugs for 225 sq. mm cable	each	1.00	32.55	32.55
Total cost of materials					1034.90
Cartage @ 1 % of A1					10.35
LABOUR					
1002	Cable jointer	day	0.20	447.00	89.40
1007	Khallasasi	day	0.20	368.00	73.60
TOTAL					1208.25
OVERHEADS & PROFIT @ 15 %					181.24
TOTAL					1389.49
Rate per Set					1389.49
Say					1389.00

9.1.32 4 X 10 sq. mm (25mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2132	Brass compression gland for (25 mm) 4 X 10 sq. mm 1.1 kV grade cable	set	1	86.21	86.21
2202	Aluminium lugs for 10 sq. mm cable	each	4.00	2.06	8.22
Total cost of materials					94.43
Cartage @ 1 % of A1					0.94
LABOUR					
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasasi	day	0.10	368.00	36.80
TOTAL					176.87
OVERHEADS & PROFIT @ 15 %					26.53
TOTAL					203.40
Rate per Set					203.40
Say					203.00

9.1.33 4 X 16 sq. mm (28mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2133	Brass compression gland for (28 mm) 4 X 16 sq. mm 1.1 kV grade cable	set	1	128.68	128.68
2203	Aluminium lugs for 16 sq. mm cable	each	4.00	2.47	9.89
Total cost of materials					138.57

	Cartage @ 1 % of A1				1.39
	LABOUR				
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				221.46
	OVERHEADS & PROFIT @ 15 %				33.22
	TOTAL				254.68
	Rate per Set				254.68
	Say				255.00

9.1.34 4 X 25 sq. mm (28mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2134	Brass compression gland for (28 mm) 4 X 25 sq. mm 1.1 kV grade cable	set	1	128.68	128.68
2204	Aluminium lugs for 25 sq. mm cable	each	4.00	3.10	12.41
	Total cost of materials				141.09
	Cartage @ 1 % of A1				1.41
	LABOUR				
1002	Cable jointer	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
	TOTAL				224.00
	OVERHEADS & PROFIT @ 15 %				33.60
	TOTAL				257.60
	Rate per Set				257.60
	Say				258.00

9.1.35 4 X 35 sq. mm (32mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2135	Brass compression gland for (32 mm) 4 X 35 sq. mm 1.1 kV grade cable	set	1	130.62	130.62
2205	Aluminium lugs for 35 sq. mm cable	each	4.00	4.10	16.38
	Total cost of materials				147.00
	Cartage @ 1 % of A1				1.47
	LABOUR				
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16
	TOTAL				246.27
	OVERHEADS & PROFIT @ 15 %				36.94
	TOTAL				283.21
	Rate per Set				283.21
	Say				283.00

9.1.36 4 X 50 sq. mm (35mm)**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2136	Brass compression gland for (35 mm) 4 X 50 sq. mm 1.1 kV grade cable	set	1	186.27	186.27
2206	Aluminium lugs for 50 sq. mm cable	each	4.00	6.21	24.85
Total cost of materials					211.12
Cartage @ 1 % of A1					2.11
LABOUR					
1002	Cable jointer	day	0.12	447.00	53.64
1007	Khallasi	day	0.12	368.00	44.16
TOTAL					311.03
OVERHEADS & PROFIT @ 15 %					46.65
TOTAL					357.68
Rate per Set					357.68
Say					358.00

9.2 Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.**9.2.1 2 X 16 sq. mm****Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2300	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 16 sq. mm 1.1 kV grade cable	set	1	329.18	329.18
Total cost of materials					329.18
Cartage @ 1 % of A1					3.29
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					536.22
OVERHEADS & PROFIT @ 15 %					80.43
TOTAL					616.65
Rate per Set					616.65
Say					617.00

9.2.2 2 X 25 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2301	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 25 sq. mm 1.1 kV grade cable	set	1	369.08	369.08
Total cost of materials					369.08
Cartage @ 1 % of A1					3.69
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
TOTAL					576.52
OVERHEADS & PROFIT @ 15 %					86.48
TOTAL					663.00
Rate per Set					663.00
Say					663.00

9.2.3 2 X 35 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2302	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 35 sq. mm 1.1 kV grade cable	set	1	369.08	369.08
Total cost of materials					369.08
Cartage @ 1 % of A1					3.69
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
TOTAL					576.52
OVERHEADS & PROFIT @ 15 %					86.48
TOTAL					663.00
Rate per Set					663.00
Say					663.00

9.2.4 2 X 50 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2303	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 50 sq. mm 1.1 kV grade cable	set	1	369.08	369.08
Total cost of materials					369.08

	Cartage @ 1 % of A1				3.69
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
	TOTAL				576.52
	OVERHEADS & PROFIT @ 15 %				86.48
	TOTAL				663.00
	Rate per Set				663.00
	Say				663.00

9.2.5 3 X 16 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2304	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 16 sq. mm 1.1 kV grade cable	set	1	369.08	369.08
	Total cost of materials				369.08
	Cartage @ 1 % of A1				3.69
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
	TOTAL				576.52
	OVERHEADS & PROFIT @ 15 %				86.48
	TOTAL				663.00
	Rate per Set				663.00
	Say				663.00

9.2.6 3 X 25 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2305	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 25 sq. mm 1.1 kV grade cable	set	1	369.08	369.08
	Total cost of materials				369.08
	Cartage @ 1 % of A1				3.69
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
	TOTAL				576.52
	OVERHEADS & PROFIT @ 15 %				86.48
	TOTAL				663.00
	Rate per Set				663.00
	Say				663.00

9.2.7 3 X 35 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2306	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 35 sq. mm 1.1 kV grade cable	set	1	369.08	369.08
Total cost of materials					369.08
Cartage @ 1 % of A1					3.69
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					576.52
OVERHEADS & PROFIT @ 15 %					86.48
TOTAL					663.00
Rate per Set					663.00
Say					663.00

9.2.8 3 X 50 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2307	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 50 sq. mm 1.1 kV grade cable	set	1	405.83	405.83
Total cost of materials					405.83
Cartage @ 1 % of A1					4.06
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					613.64
OVERHEADS & PROFIT @ 15 %					92.05
TOTAL					705.69
Rate per Set					705.69
Say					706.00

9.2.9 3 X 70 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2308	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 70 sq. mm 1.1 kV grade cable	set	1	405.83	405.83
Total cost of materials					405.83

	Cartage @ 1 % of A1				4.06
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
	TOTAL				613.64
	OVERHEADS & PROFIT @ 15 %				92.05
	TOTAL				705.69
	Rate per Set				705.69
	Say				706.00

9.2.10 3 X 95 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount
	MATERIALS				
2309	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 95 sq. mm 1.1 kV grade cable	set	1	462.00	462.00
	Total cost of materials				462.00
	Cartage @ 1 % of A1				4.62
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallas	day	0.33	368.00	121.44
	TOTAL				735.57
	OVERHEADS & PROFIT @ 15 %				110.34
	TOTAL				845.91
	Rate per Set				845.91
	Say				846.00

9.2.11 3 X 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2310	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 120 sq. mm 1.1 kV grade cable	set	1	462.00	462.00
	Total cost of materials				462.00
	Cartage @ 1 % of A1				4.62
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallas	day	0.33	368.00	121.44
	TOTAL				735.57
	OVERHEADS & PROFIT @ 15 %				110.34
	TOTAL				845.91
	Rate per Set				845.91
	Say				846.00

9.2.12 3 X 150 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2311	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 150 sq. mm 1.1 kV grade cable	set	1	462.00	462.00
	Total cost of materials				462.00
	Cartage @ 1 % of A1				4.62
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallas	day	0.33	368.00	121.44
	TOTAL				735.57
	OVERHEADS & PROFIT @ 15 %				110.34
	TOTAL				845.91
	Rate per Set				845.91
	Say				846.00

9.2.13 3 X 185 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2312	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 185 sq. mm 1.1 kV grade cable	set	1	697.73	697.73
	Total cost of materials				697.73
	Cartage @ 1 % of A1				6.98
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallas	day	0.33	368.00	121.44
	TOTAL				973.66
	OVERHEADS & PROFIT @ 15 %				146.05
	TOTAL				1119.71
	Rate per Set				1119.71
	Say				1120.00

9.2.14 3 X 225 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2313	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 225 sq. mm 1.1 kV grade cable	set	1	697.73	697.73
	Total cost of materials				697.73

	Cartage @ 1 % of A1				6.98
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				973.66
	OVERHEADS & PROFIT @ 15 %				146.05
	TOTAL				1119.71
	Rate per Set				1119.71
	Say				1120.00

9.2.15 3 X 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2314	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 240 sq. mm 1.1 kV grade cable	set	1	844.20	844.20
	Total cost of materials				844.20
	Cartage @ 1 % of A1				8.44
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1121.59
	OVERHEADS & PROFIT @ 15 %				168.24
	TOTAL				1289.83
	Rate per Set				1289.83
	Say				1290.00

9.2.16 3 X 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2315	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 300 sq. mm 1.1 kV grade cable	set	1	844.20	844.20
	Total cost of materials				844.20
	Cartage @ 1 % of A1				8.44
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1121.59
	OVERHEADS & PROFIT @ 15 %				168.24
	TOTAL				1289.83
	Rate per Set				1289.83
	Say				1290.00

9.2.17 3½ X 25 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2316	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 25 sq. mm 1.1 kV grade cable	set	1	369.08	369.08
Total cost of materials					369.08
Cartage @ 1 % of A1					3.69
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					576.52
OVERHEADS & PROFIT @ 15 %					86.48
TOTAL					663.00
Rate per Set					663.00
Say					663.00

9.2.18 3½ X 35 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2317	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 35 sq. mm 1.1 kV grade cable	set	1	405.83	405.83
Total cost of materials					405.83
Cartage @ 1 % of A1					4.06
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					613.64
OVERHEADS & PROFIT @ 15 %					92.05
TOTAL					705.69
Rate per Set					705.69
Say					706.00

9.2.19 3½ X 50 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2318	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 50 sq. mm 1.1 kV grade cable	set	1	405.83	405.83
Total cost of materials					405.83

	Cartage @ 1 % of A1				4.06
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasasi	day	0.25	368.00	92.00
	TOTAL				613.64
	OVERHEADS & PROFIT @ 15 %				92.05
	TOTAL				705.69
	Rate per Set				705.69
	Say				706.00

9.2.20 3½ X 70 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2319	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 70 sq. mm 1.1 kV grade cable	set	1	462.00	462.00
	Total cost of materials				462.00
	Cartage @ 1 % of A1				4.62
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasasi	day	0.25	368.00	92.00
	TOTAL				670.37
	OVERHEADS & PROFIT @ 15 %				100.56
	TOTAL				770.93
	Rate per Set				770.93
	Say				771.00

9.2.21 3½ X 95 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2320	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 95 sq. mm 1.1 kV grade cable	set	1	462.00	462.00
	Total cost of materials				462.00
	Cartage @ 1 % of A1				4.62
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasasi	day	0.33	368.00	121.44
	TOTAL				735.57
	OVERHEADS & PROFIT @ 15 %				110.34
	TOTAL				845.91
	Rate per Set				845.91
	Say				846.00

9.2.22 3½ X 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2321	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 120 sq. mm 1.1 kV grade cable	set	1	462.00	462.00
Total cost of materials					462.00
Cartage @ 1 % of A1					4.62
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallas	day	0.33	368.00	121.44
TOTAL					735.57
OVERHEADS & PROFIT @ 15 %					110.34
TOTAL					845.91
Rate per Set					845.91
Say					846.00

9.2.23 3½ X 150 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2322	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 150 sq. mm 1.1 kV grade cable	set	1	697.73	697.73
Total cost of materials					697.73
Cartage @ 1 % of A1					6.98
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallas	day	0.33	368.00	121.44
TOTAL					973.66
OVERHEADS & PROFIT @ 15 %					146.05
TOTAL					1119.71
Rate per Set					1119.71
Say					1120.00

9.2.24 3½ X 185 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2323	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 185 sq. mm 1.1 kV grade cable	set	1	697.73	697.73
Total cost of materials					697.73

	Cartage @ 1 % of A1				6.98
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				973.66
	OVERHEADS & PROFIT @ 15 %				146.05
	TOTAL				1119.71
	Rate per Set				1119.71
	Say				1120.00

9.2.25 3½ X 225 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2324	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 225 sq. mm 1.1 kV grade cable	set	1	844.20	844.20
	Total cost of materials				844.20
	Cartage @ 1 % of A1				8.44
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1121.59
	OVERHEADS & PROFIT @ 15 %				168.24
	TOTAL				1289.83
	Rate per Set				1289.83
	Say				1290.00

9.2.26 3½ X 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2325	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 240 sq. mm 1.1 kV grade cable	set	1	844.20	844.20
	Total cost of materials				844.20
	Cartage @ 1 % of A1				8.44
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1121.59
	OVERHEADS & PROFIT @ 15 %				168.24
	TOTAL				1289.83
	Rate per Set				1289.83
	Say				1290.00

9.2.27 3½ X 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2326	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 300 sq. mm 1.1 kV grade cable	set	1	844.20	844.20
Total cost of materials					844.20
Cartage @ 1 % of A1					8.44
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					1260.14
OVERHEADS & PROFIT @ 15 %					189.02
TOTAL					1449.16
Rate per Set					1449.16
Say					1449.00

9.2.28 3½ X 400 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2327	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 400 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40
Cartage @ 1 % of A1					10.16
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					1434.06
OVERHEADS & PROFIT @ 15 %					215.11
TOTAL					1649.17
Rate per Set					1649.17
Say					1649.00

9.2.29 4 X 16 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2328	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 16 sq. mm 1.1 kV grade cable	set	1	369.08	369.08
Total cost of materials					369.08

CHAPTER-9 : MV CABLE JOINTING & END TERMINATION

	Cartage @ 1 % of A1				3.69
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
	TOTAL				576.52
	OVERHEADS & PROFIT @ 15 %				86.48
	TOTAL				663.00
	Rate per Set				663.00
	Say				663.00

9.2.30 4 X 25 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2329	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 25 sq. mm 1.1 kV grade cable	set	1	369.08	369.08
	Total cost of materials				369.08
	Cartage @ 1 % of A1				3.69
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
	TOTAL				576.52
	OVERHEADS & PROFIT @ 15 %				86.48
	TOTAL				663.00
	Rate per Set				663.00
	Say				663.00

9.2.31 4 X 35 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2330	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 35 sq. mm 1.1 kV grade cable	set	1	405.83	405.83
	Total cost of materials				405.83
	Cartage @ 1 % of A1				4.06
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
	TOTAL				613.64
	OVERHEADS & PROFIT @ 15 %				92.05
	TOTAL				705.69
	Rate per Set				705.69
	Say				706.00

9.2.32 4 X 50 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2331	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 50 sq. mm 1.1 kV grade cable	set	1	405.83	405.83
Total cost of materials					405.83
Cartage @ 1 % of A1					4.06
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					613.64
OVERHEADS & PROFIT @ 15 %					92.05
TOTAL					705.69
Rate per Set					705.69
Say					706.00

9.3 Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.

9.3.1 2 X 16 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2332	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 16 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
Total cost of materials					870.45
Cartage @ 1 % of A1					8.70
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1082.90
OVERHEADS & PROFIT @ 15 %					162.44
TOTAL					1245.34
Rate per Set					1245.34
Say					1245.00

9.3.2 2 X 25 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2333	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 25 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
Total cost of materials					870.45
Cartage @ 1 % of A1					8.70
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1082.90
OVERHEADS & PROFIT @ 15 %					162.44
TOTAL					1245.34
Rate per Set					1245.34
Say					1245.00

9.3.3 2 X 35 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2334	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 35 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
Total cost of materials					870.45
Cartage @ 1 % of A1					8.70
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1082.90
OVERHEADS & PROFIT @ 15 %					162.44
TOTAL					1245.34
Rate per Set					1245.34
Say					1245.00

9.3.4 2 X 50 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2335	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 50 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40

	Cartage @ 1 % of A1				10.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1230.31
	OVERHEADS & PROFIT @ 15 %				184.55
	TOTAL				1414.86
	Rate per Set				1414.86
	Say				1415.00

9.3.5 3 X 16 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2336	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 16 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
	Total cost of materials				1016.40
	Cartage @ 1 % of A1				10.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1230.31
	OVERHEADS & PROFIT @ 15 %				184.55
	TOTAL				1414.86
	Rate per Set				1414.86
	Say				1415.00

9.3.6 3 X 25 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2337	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 25 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
	Total cost of materials				870.45
	Cartage @ 1 % of A1				8.70
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1082.90
	OVERHEADS & PROFIT @ 15 %				162.44
	TOTAL				1245.34
	Rate per Set				1245.34
	Say				1245.00

9.3.7 3 X 35 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2338	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 35 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
Total cost of materials					870.45
Cartage @ 1 % of A1					8.70
LABOUR					
1002	Cable joiner	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1082.90
OVERHEADS & PROFIT @ 15 %					162.44
TOTAL					1245.34
Rate per Set					1245.34
Say					1245.00

9.3.8 3 X 50 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2339	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 50 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40
Cartage @ 1 % of A1					10.16
LABOUR					
1002	Cable joiner	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1230.31
OVERHEADS & PROFIT @ 15 %					184.55
TOTAL					1414.86
Rate per Set					1414.86
Say					1415.00

9.3.9 3 X 70 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2340	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 70 sq. mm 1.1 kV grade cable	set	1	1215.90	1215.90
Total cost of materials					1215.90

	Cartage @ 1 % of A1				12.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1431.81
	OVERHEADS & PROFIT @ 15 %				214.77
	TOTAL				1646.58
	Rate per Set				1646.58
	Say				1647.00

9.3.10 3 X 95 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2341	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 95 sq. mm 1.1 kV grade cable	set	1	1248.98	1248.98
	Total cost of materials				1248.98
	Cartage @ 1 % of A1				12.49
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1530.42
	OVERHEADS & PROFIT @ 15 %				229.56
	TOTAL				1759.98
	Rate per Set				1759.98
	Say				1760.00

9.3.11 3 X 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2342	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 120 sq. mm 1.1 kV grade cable	set	1	1428.53	1428.53
	Total cost of materials				1428.53
	Cartage @ 1 % of A1				14.29
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1711.77
	OVERHEADS & PROFIT @ 15 %				256.76
	TOTAL				1968.53
	Rate per Set				1968.53
	Say				1969.00

9.3.12 3 X 150 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2343	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 150 sq. mm 1.1 kV grade cable	set	1	1428.53	1428.53
Total cost of materials					1428.53
Cartage @ 1 % of A1					14.29
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
TOTAL					1711.77
OVERHEADS & PROFIT @ 15 %					256.76
TOTAL					1968.53
Rate per Set					1968.53
Say					1969.00

9.3.13 3 X 185 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2344	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 185 sq. mm 1.1 kV grade cable	set	1	1740.38	1740.38
Total cost of materials					1740.38
Cartage @ 1 % of A1					17.40
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
TOTAL					2026.73
OVERHEADS & PROFIT @ 15 %					304.01
TOTAL					2330.74
Rate per Set					2330.74
Say					2331.00

9.3.14 3 X 225 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2345	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 225 sq. mm 1.1 kV grade cable	set	1	1999.73	1999.73
Total cost of materials					1999.73

	Cartage @ 1 % of A1				20.00
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				2288.68
	OVERHEADS & PROFIT @ 15 %				343.30
	TOTAL				2631.98
	Rate per Set				2631.98
	Say				2632.00

9.3.15 3 X 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2346	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 240 sq. mm 1.1 kV grade cable	set	1	1999.73	1999.73
	Total cost of materials				1999.73
	Cartage @ 1 % of A1				20.00
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				2288.68
	OVERHEADS & PROFIT @ 15 %				343.30
	TOTAL				2631.98
	Rate per Set				2631.98
	Say				2632.00

9.3.16 3 X 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2347	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 300 sq. mm 1.1 kV grade cable	set	1	2517.38	2517.38
	Total cost of materials				2517.38
	Cartage @ 1 % of A1				25.17
	LABOUR				
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
	TOTAL				2950.05
	OVERHEADS & PROFIT @ 15 %				442.51
	TOTAL				3392.56
	Rate per Set				3392.56
	Say				3393.00

9.3.17 3½ X 25 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2348	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 25 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40
Cartage @ 1 % of A1					10.16
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
TOTAL					1230.31
OVERHEADS & PROFIT @ 15 %					184.55
TOTAL					1414.86
Rate per Set					1414.86
Say					1415.00

9.3.18 3½ X 35 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2349	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 35 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40
Cartage @ 1 % of A1					10.16
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallas	day	0.25	368.00	92.00
TOTAL					1230.31
OVERHEADS & PROFIT @ 15 %					184.55
TOTAL					1414.86
Rate per Set					1414.86
Say					1415.00

9.3.19 3½ X 50 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2350	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 50 sq. mm 1.1 kV grade cable	set	1	1215.90	1215.90
Total cost of materials					1215.90

	Cartage @ 1 % of A1				12.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1431.81
	OVERHEADS & PROFIT @ 15 %				214.77
	TOTAL				1646.58
	Rate per Set				1646.58
	Say				1647.00

9.3.20 3½ X 70 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2351	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 70 sq. mm 1.1 kV grade cable	set	1	1227.98	1227.98
	Total cost of materials				1227.98
	Cartage @ 1 % of A1				12.28
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1444.01
	OVERHEADS & PROFIT @ 15 %				216.60
	TOTAL				1660.61
	Rate per Set				1660.61
	Say				1661.00

9.3.21 3½ X 95 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2352	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 95 sq. mm 1.1 kV grade cable	set	1	1428.53	1428.53
	Total cost of materials				1428.53
	Cartage @ 1 % of A1				14.29
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1711.77
	OVERHEADS & PROFIT @ 15 %				256.76
	TOTAL				1968.53
	Rate per Set				1968.53
	Say				1969.00

9.3.22 3½ X 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2353	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 120 sq. mm 1.1 kV grade cable	set	1	1740.38	1740.38
Total cost of materials					1740.38
Cartage @ 1 % of A1					17.40
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
TOTAL					2026.73
OVERHEADS & PROFIT @ 15 %					304.01
TOTAL					2330.74
Rate per Set					2330.74
Say					2331.00

9.3.23 3½ X 150 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2354	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 150 sq. mm 1.1 kV grade cable	set	1	1740.38	1740.38
Total cost of materials					1740.38
Cartage @ 1 % of A1					17.40
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
TOTAL					2026.73
OVERHEADS & PROFIT @ 15 %					304.01
TOTAL					2330.74
Rate per Set					2330.74
Say					2331.00

9.3.24 3½ X 185 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2355	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 185 sq. mm 1.1 kV grade cable	set	1	1999.73	1999.73
Total cost of materials					1999.73

	Cartage @ 1 % of A1				20.00
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				2288.68
	OVERHEADS & PROFIT @ 15 %				343.30
	TOTAL				2631.98
	Rate per Set				2631.98
	Say				2632.00

9.3.25 3½ X 225 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2356	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 225 sq. mm 1.1 kV grade cable	set	1	2039.63	2039.63
	Total cost of materials				2039.63
	Cartage @ 1 % of A1				20.40
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				2328.98
	OVERHEADS & PROFIT @ 15 %				349.35
	TOTAL				2678.33
	Rate per Set				2678.33
	Say				2678.00

9.3.26 3½ X 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2357	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 240 sq. mm 1.1 kV grade cable	set	1	2517.38	2517.38
	Total cost of materials				2517.38
	Cartage @ 1 % of A1				25.17
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				2811.50
	OVERHEADS & PROFIT @ 15 %				421.73
	TOTAL				3233.23
	Rate per Set				3233.23
	Say				3233.00

9.3.27 3½ X 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2358	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 300 sq. mm 1.1 kV grade cable	set	1	3015.60	3015.60
Total cost of materials					3015.60
Cartage @ 1 % of A1					30.16
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					3453.26
OVERHEADS & PROFIT @ 15 %					517.99
TOTAL					3971.25
Rate per Set					3971.25
Say					3971.00

9.3.28 3½ X 400 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2359	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 400 sq. mm 1.1 kV grade cable	set	1	1619.10	1619.10
Total cost of materials					1619.10
Cartage @ 1 % of A1					16.19
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					2042.79
OVERHEADS & PROFIT @ 15 %					306.42
TOTAL					2349.21
Rate per Set					2349.21
Say					2349.00

9.3.29 4 X 16 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2360	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 16 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
Total cost of materials					870.45

	Cartage @ 1 % of A1				8.70
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1082.90
	OVERHEADS & PROFIT @ 15 %				162.44
	TOTAL				1245.34
	Rate per Set				1245.34
	Say				1245.00

9.3.30 4 X 25 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2361	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 25 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
	Total cost of materials				1016.40
	Cartage @ 1 % of A1				10.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1230.31
	OVERHEADS & PROFIT @ 15 %				184.55
	TOTAL				1414.86
	Rate per Set				1414.86
	Say				1415.00

9.3.31 4 X 35 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2362	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 35 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
	Total cost of materials				1016.40
	Cartage @ 1 % of A1				10.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1230.31
	OVERHEADS & PROFIT @ 15 %				184.55
	TOTAL				1414.86
	Rate per Set				1414.86
	Say				1415.00

9.3.32 4 X 50 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2363	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 50 sq. mm 1.1 kV grade cable	set	1	1215.90	1215.90
Total cost of materials					1215.90
Cartage @ 1 % of A1					12.16
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1431.81
OVERHEADS & PROFIT @ 15 %					214.77
TOTAL					1646.58
Rate per Set					1646.58
Say					1647.00

9.4 Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.

9.4.1 2 X 16 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2364	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 16 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
Total cost of materials					870.45
Cartage @ 1 % of A1					8.70
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1082.90
OVERHEADS & PROFIT @ 15 %					162.44
TOTAL					1245.34
Rate per Set					1245.34
Say					1245.00

9.4.2 2 X 25 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2365	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 25 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
Total cost of materials					870.45
Cartage @ 1 % of A1					8.70
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1082.90
OVERHEADS & PROFIT @ 15 %					162.44
TOTAL					1245.34
Rate per Set					1245.34
Say					1245.00

9.4.3 2 X 35 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2366	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 35 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
Total cost of materials					870.45
Cartage @ 1 % of A1					8.70
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1082.90
OVERHEADS & PROFIT @ 15 %					162.44
TOTAL					1245.34
Rate per Set					1245.34
Say					1245.00

9.4.4 2 X 50 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2367	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 50 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40

CHAPTER-9 : MV CABLE JOINTING & END TERMINATION

	Cartage @ 1 % of A1				10.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1230.31
	OVERHEADS & PROFIT @ 15 %				184.55
	TOTAL				1414.86
	Rate per Set				1414.86
	Say				1415.00

9.4.5 3 X 16 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2368	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 16 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
	Total cost of materials				870.45
	Cartage @ 1 % of A1				8.70
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1082.90
	OVERHEADS & PROFIT @ 15 %				162.44
	TOTAL				1245.34
	Rate per Set				1245.34
	Say				1245.00

9.4.6 3 X 25 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2369	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 25 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
	Total cost of materials				870.45
	Cartage @ 1 % of A1				8.70
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1082.90
	OVERHEADS & PROFIT @ 15 %				162.44
	TOTAL				1245.34
	Rate per Set				1245.34
	Say				1245.00

9.4.7 3 X 35 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2370	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 35 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40
Cartage @ 1 % of A1					10.16
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1230.31
OVERHEADS & PROFIT @ 15 %					184.55
TOTAL					1414.86
Rate per Set					1414.86
Say					1415.00

9.4.8 3 X 50 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2371	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 50 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40
Cartage @ 1 % of A1					10.16
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1230.31
OVERHEADS & PROFIT @ 15 %					184.55
TOTAL					1414.86
Rate per Set					1414.86
Say					1415.00

9.4.9 3 X 70 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2372	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 70 sq. mm 1.1 kV grade cable	set	1	1248.98	1248.98
Total cost of materials					1248.98

	Cartage @ 1 % of A1				12.49
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1465.22
	OVERHEADS & PROFIT @ 15 %				219.78
	TOTAL				1685.00
	Rate per Set				1685.00
	Say				1685.00

9.4.10 3 X 95 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2373	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 95 sq. mm 1.1 kV grade cable	set	1	1428.53	1428.53
	Total cost of materials				1428.53
	Cartage @ 1 % of A1				14.29
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1711.77
	OVERHEADS & PROFIT @ 15 %				256.76
	TOTAL				1968.53
	Rate per Set				1968.53
	Say				1969.00

9.4.11 3 X 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2374	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 120 sq. mm 1.1 kV grade cable	set	1	1428.53	1428.53
	Total cost of materials				1428.53
	Cartage @ 1 % of A1				14.29
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1711.77
	OVERHEADS & PROFIT @ 15 %				256.76
	TOTAL				1968.53
	Rate per Set				1968.53
	Say				1969.00

9.4.12 3 X 150 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2375	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 150 sq. mm 1.1 kV grade cable	set	1	1428.53	1428.53
Total cost of materials					1428.53
Cartage @ 1 % of A1					14.29
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallas	day	0.33	368.00	121.44
TOTAL					1711.77
OVERHEADS & PROFIT @ 15 %					256.76
TOTAL					1968.53
Rate per Set					1968.53
Say					1969.00

9.4.13 3 X 185 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2376	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 185 sq. mm 1.1 kV grade cable	set	1	1740.38	1740.38
Total cost of materials					1740.38
Cartage @ 1 % of A1					17.40
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallas	day	0.33	368.00	121.44
TOTAL					2026.73
OVERHEADS & PROFIT @ 15 %					304.01
TOTAL					2330.74
Rate per Set					2330.74
Say					2331.00

9.4.14 3 X 225 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2377	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 225 sq. mm 1.1 kV grade cable	set	1	1999.73	1999.73
Total cost of materials					1999.73

CHAPTER-9 : MV CABLE JOINTING & END TERMINATION

	Cartage @ 1 % of A1				20.00
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasasi	day	0.33	368.00	121.44
	TOTAL				2288.68
	OVERHEADS & PROFIT @ 15 %				343.30
	TOTAL				2631.98
	Rate per Set				2631.98
	Say				2632.00

9.4.15 3 X 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2378	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 240 sq. mm 1.1 kV grade cable	set	1	2039.63	2039.63
	Total cost of materials				2039.63
	Cartage @ 1 % of A1				20.40
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasasi	day	0.33	368.00	121.44
	TOTAL				2328.98
	OVERHEADS & PROFIT @ 15 %				349.35
	TOTAL				2678.33
	Rate per Set				2678.33
	Say				2678.00

9.4.16 3 X 300 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2379	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 300 sq. mm 1.1 kV grade cable	set	1	2517.38	2517.38
	Total cost of materials				2517.38
	Cartage @ 1 % of A1				25.17
	LABOUR				
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasasi	day	0.50	368.00	184.00
	TOTAL				2950.05
	OVERHEADS & PROFIT @ 15 %				442.51
	TOTAL				3392.56
	Rate per Set				3392.56
	Say				3393.00

9.4.17 3½ X 25 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2380	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 25 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40
Cartage @ 1 % of A1					10.16
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasasi	day	0.25	368.00	92.00
TOTAL					1230.31
OVERHEADS & PROFIT @ 15 %					184.55
TOTAL					1414.86
Rate per Set					1414.86
Say					1415.00

9.4.18 3½ X 35 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2381	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 35 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
Total cost of materials					1016.40
Cartage @ 1 % of A1					10.16
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasasi	day	0.25	368.00	92.00
TOTAL					1230.31
OVERHEADS & PROFIT @ 15 %					184.55
TOTAL					1414.86
Rate per Set					1414.86
Say					1415.00

9.4.19 3½ X 50 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2382	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 50 sq. mm 1.1 kV grade cable	set	1	1215.90	1215.90
Total cost of materials					1215.90

	Cartage @ 1 % of A1				12.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1431.81
	OVERHEADS & PROFIT @ 15 %				214.77
	TOTAL				1646.58
	Rate per Set				1646.58
	Say				1647.00

9.4.20 3½ X 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2383	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 70 sq. mm 1.1 kV grade cable	set	1	1248.98	1248.98
	Total cost of materials				1248.98
	Cartage @ 1 % of A1				12.49
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1465.22
	OVERHEADS & PROFIT @ 15 %				219.78
	TOTAL				1685.00
	Rate per Set				1685.00
	Say				1685.00

9.4.21 3½ X 95 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2384	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 95 sq. mm 1.1 kV grade cable	set	1	1428.53	1428.53
	Total cost of materials				1428.53
	Cartage @ 1 % of A1				14.29
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				1711.77
	OVERHEADS & PROFIT @ 15 %				256.76
	TOTAL				1968.53
	Rate per Set				1968.53
	Say				1969.00

9.4.22 3½ X 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2385	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 120 sq. mm 1.1 kV grade cable	set	1	1740.38	1740.38
Total cost of materials					1740.38
Cartage @ 1 % of A1					17.40
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasasi	day	0.33	368.00	121.44
TOTAL					2026.73
OVERHEADS & PROFIT @ 15 %					304.01
TOTAL					2330.74
Rate per Set					2330.74
Say					2331.00

9.4.23 3½ X 150 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2386	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 150 sq. mm 1.1 kV grade cable	set	1	1740.38	1740.38
Total cost of materials					1740.38
Cartage @ 1 % of A1					17.40
LABOUR					
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasasi	day	0.33	368.00	121.44
TOTAL					2026.73
OVERHEADS & PROFIT @ 15 %					304.01
TOTAL					2330.74
Rate per Set					2330.74
Say					2331.00

9.4.24 3½ X 185 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2387	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 185 sq. mm 1.1 kV grade cable	set	1	1999.73	1999.73
Total cost of materials					1999.73

	Cartage @ 1 % of A1				20.00
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				2288.68
	OVERHEADS & PROFIT @ 15 %				343.30
	TOTAL				2631.98
	Rate per Set				2631.98
	Say				2632.00

9.4.25 3½ X 225 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2388	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 225 sq. mm 1.1 kV grade cable	set	1	1999.73	1999.73
	Total cost of materials				1999.73
	Cartage @ 1 % of A1				20.00
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				2288.68
	OVERHEADS & PROFIT @ 15 %				343.30
	TOTAL				2631.98
	Rate per Set				2631.98
	Say				2632.00

9.4.26 3½ X 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2389	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 240 sq. mm 1.1 kV grade cable	set	1	2039.63	2039.63
	Total cost of materials				2039.63
	Cartage @ 1 % of A1				20.40
	LABOUR				
1002	Cable jointer	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
	TOTAL				2328.98
	OVERHEADS & PROFIT @ 15 %				349.35
	TOTAL				2678.33
	Rate per Set				2678.33
	Say				2678.00

9.4.27 3½ X 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2390	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 300 sq. mm 1.1 kV grade cable	set	1	2517.38	2517.38
Total cost of materials					2517.38
Cartage @ 1 % of A1					25.17
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					2950.05
OVERHEADS & PROFIT @ 15 %					442.51
TOTAL					3392.56
Rate per Set					3392.56
Say					3393.00

9.4.28 3½ X 400 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2391	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 400 sq. mm 1.1 kV grade cable	set	1	3719.10	3719.10
Total cost of materials					3719.10
Cartage @ 1 % of A1					37.19
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					4163.79
OVERHEADS & PROFIT @ 15 %					624.57
TOTAL					4788.36
Rate per Set					4788.36
Say					4788.00

9.4.29 4 X 16 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2392	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 16 sq. mm 1.1 kV grade cable	set	1	870.45	870.45
Total cost of materials					870.45

	Cartage @ 1 % of A1				8.70
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1082.90
	OVERHEADS & PROFIT @ 15 %				162.44
	TOTAL				1245.34
	Rate per Set				1245.34
	Say				1245.00

9.4.30 4 X 25 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2393	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 25 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
	Total cost of materials				1016.40
	Cartage @ 1 % of A1				10.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1230.31
	OVERHEADS & PROFIT @ 15 %				184.55
	TOTAL				1414.86
	Rate per Set				1414.86
	Say				1415.00

9.4.31 4 X 35 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2394	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 35 sq. mm 1.1 kV grade cable	set	1	1016.40	1016.40
	Total cost of materials				1016.40
	Cartage @ 1 % of A1				10.16
	LABOUR				
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
	TOTAL				1230.31
	OVERHEADS & PROFIT @ 15 %				184.55
	TOTAL				1414.86
	Rate per Set				1414.86
	Say				1415.00

9.4.32 4 X 50 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2395	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 50 sq. mm 1.1 kV grade cable	set	1	1215.90	1215.90
Total cost of materials					1215.90
Cartage @ 1 % of A1					12.16
LABOUR					
1002	Cable jointer	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1431.81
OVERHEADS & PROFIT @ 15 %					214.77
TOTAL					1646.58
Rate per Set					1646.58
Say					1647.00

CHAPTER 10 – HV CABLE JOINTING & END TERMINATION

10.1 Supplying and making indoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 kV grade as required :

10.1.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2413	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	1	524.48	524.48
Total cost of materials					524.48
Cartage @ 1 % of A1					5.24
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					937.22
OVERHEADS & PROFIT @ 15 %					140.58
TOTAL					1077.80
Rate per Set					1077.80
Say					1078.00

10.1.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2414	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	1	524.48	524.48
Total cost of materials					524.48
Cartage @ 1 % of A1					5.24
LABOUR					
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasi	day	0.80	368.00	294.40
TOTAL					1181.72
OVERHEADS & PROFIT @ 15 %					177.26
TOTAL					1358.98
Rate per Set					1358.98
Say					1359.00

10.1.3 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2415	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	1	765.45	765.45
Total cost of materials					765.45
Cartage @ 1 % of A1					7.65
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
TOTAL					1588.10
OVERHEADS & PROFIT @ 15 %					238.22
TOTAL					1826.32
Rate per Set					1826.32
Say					1826.00

10.1.4 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2416	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	1	793.80	793.80
Total cost of materials					793.80
Cartage @ 1 % of A1					7.94
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
TOTAL					1616.74
OVERHEADS & PROFIT @ 15 %					242.51
TOTAL					1859.25
Rate per Set					1859.25
Say					1859.00

10.2 Supplying and making outdoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 kV grade as required :

10.2.1 70 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2417	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	1	1795.50	1795.50
Total cost of materials					1795.50
Cartage @ 1 % of A1					17.96
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasasi	day	0.50	368.00	184.00
TOTAL					2220.96
OVERHEADS & PROFIT @ 15 %					333.14
TOTAL					2554.10
Rate per Set					2554.10
Say					2554.00

10.2.2 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2418	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	1	1819.13	1819.13
Total cost of materials					1819.13
Cartage @ 1 % of A1					18.19
LABOUR					
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasasi	day	0.80	368.00	294.40
TOTAL					2489.32
OVERHEADS & PROFIT @ 15 %					373.40
TOTAL					2862.72
Rate per Set					2862.72
Say					2863.00

10.2.3 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2419	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	1	2060.10	2060.10

Total cost of materials				2060.10
Cartage @ 1 % of A1				20.60
LABOUR				
1002	Cable jointer	day	1.00 447.00	447.00
1007	Khallasi	day	1.00 368.00	368.00
TOTAL				2895.70
OVERHEADS & PROFIT @ 15 %				434.36
TOTAL				3330.06
Rate per Set				3330.06
Say				3330.00

10.2.4 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2420	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	1	2060.10	2060.10
Total cost of materials					2060.10
Cartage @ 1 % of A1					20.60
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
TOTAL					2895.70
OVERHEADS & PROFIT @ 15 %					434.36
TOTAL					3330.06
Rate per Set					3330.06
Say					3330.00

10.3 Supplying and making straight through cable jointing with cast resin compound, including ferrule and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 kV grade as required :**10.3.1 70 sq. mm****Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2421	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	1	1408.05	1408.05
Total cost of materials					1408.05
Cartage @ 1 % of A1					14.08
LABOUR					
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasi	day	0.80	368.00	294.40

TOTAL	2074.13
OVERHEADS & PROFIT @ 15 %	311.12
TOTAL	2385.25
Rate per Set	2385.25
Say	2385.00

10.3.2 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2422	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	1	1696.28	1696.28
Total cost of materials					1696.28
Cartage @ 1 % of A1					16.96
LABOUR					
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasi	day	0.80	368.00	294.40
TOTAL					2365.24
OVERHEADS & PROFIT @ 15 %					354.79
TOTAL					2720.03
Rate per Set					2720.03
Say					2720.00

10.3.3 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2423	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	1	2683.80	2683.80
Total cost of materials					2683.80
Cartage @ 1 % of A1					26.84
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
TOTAL					3525.64
OVERHEADS & PROFIT @ 15 %					528.85
TOTAL					4054.49
Rate per Set					4054.49
Say					4054.00

10.3.4 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2424	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	1	3179.93	3179.93
Total cost of materials					3179.93
Cartage @ 1 % of A1					31.80
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
TOTAL					4026.73
OVERHEADS & PROFIT @ 15 %					604.01
TOTAL					4630.74
Rate per Set					4630.74
Say					4631.00

10.4 supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 kV grade as required :

10.4.1 70 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2437	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	1	3614.63	3614.63
Total cost of materials					3614.63
Cartage @ 1 % of A1					36.15
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					4058.28
OVERHEADS & PROFIT @ 15 %					608.74
TOTAL					4667.02
Rate per Set					4667.02
Say					4667.00

10.4.2 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2438	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	1	3614.63	3614.63
Total cost of materials					3614.63
Cartage @ 1 % of A1					36.15
LABOUR					
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasasi	day	0.80	368.00	294.40
TOTAL					4302.78
OVERHEADS & PROFIT @ 15 %					645.42
TOTAL					4948.20
Rate per Set					4948.20
Say					4948.00

10.4.3 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2439	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	1	4752.56	4752.56
Total cost of materials					4752.56
Cartage @ 1 % of A1					47.53
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasasi	day	1.00	368.00	368.00
TOTAL					5615.09
OVERHEADS & PROFIT @ 15 %					842.26
TOTAL					6457.35
Rate per Set					6457.35
Say					6457.00

10.4.4. 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2440	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	1	4752.56	4752.56

	Total cost of materials				4752.56
	Cartage @ 1 % of A1				47.53
	LABOUR				
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				5615.09
	OVERHEADS & PROFIT @ 15 %				842.26
	TOTAL				6457.35
	Rate per Set				6457.35
	Say				6457.00

10.5 Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 kV grade as required :

10.5.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2441	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	1	6470.63	6470.63
	Total cost of materials				6470.63
	Cartage @ 1 % of A1				64.71
	LABOUR				
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
	TOTAL				6942.84
	OVERHEADS & PROFIT @ 15 %				1041.43
	TOTAL				7984.27
	Rate per Set				7984.27
	Say				7984.00

10.5.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2442	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	1	6470.63	6470.63
	Total cost of materials				6470.63
	Cartage @ 1 % of A1				64.71
	LABOUR				
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasi	day	0.80	368.00	294.40

TOTAL	7187.34
OVERHEADS & PROFIT @ 15 %	1078.10
TOTAL	8265.44
Rate per Set	8265.44
Say	8265.00

10.5.3 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2443	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	1	7340.81	7340.81
Total cost of materials					7340.81
Cartage @ 1 % of A1					73.41
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
TOTAL					8229.22
OVERHEADS & PROFIT @ 15 %					1234.38
TOTAL					9463.60
Rate per Set					9463.60
Say					9464.00

10.5.4 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2444	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	1	7340.81	7340.81
Total cost of materials					7340.81
Cartage @ 1 % of A1					73.41
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
TOTAL					8229.22
OVERHEADS & PROFIT @ 15 %					1234.38
TOTAL					9463.60
Rate per Set					9463.60
Say					9464.00

10.6 Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 11 kV grade as required :

10.6.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2445	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	1	7318.50	7318.50
Total cost of materials					7318.50
Cartage @ 1 % of A1					73.19
LABOUR					
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasi	day	0.80	368.00	294.40
TOTAL					8043.69
OVERHEADS & PROFIT @ 15 %					1206.55
TOTAL					9250.24
Rate per Set					9250.24
Say					9250.00

10.6.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2446	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	1	7925.40	7925.40
Total cost of materials					7925.40
Cartage @ 1 % of A1					79.25
LABOUR					
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasi	day	0.80	368.00	294.40
TOTAL					8656.65
OVERHEADS & PROFIT @ 15 %					1298.50
TOTAL					9955.15
Rate per Set					9955.15
Say					9955.00

10.6.3 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2447	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	1	8353.80	8353.80
Total cost of materials					8353.80
Cartage @ 1 % of A1					83.54
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallas	day	1.00	368.00	368.00
TOTAL					9252.34
OVERHEADS & PROFIT @ 15 %					1387.85
TOTAL					10640.19
Rate per Set					10640.19
Say					10640.00

10.6.4 300 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2448	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	1	8353.80	8353.80
Total cost of materials					8353.80
Cartage @ 1 % of A1					83.54
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallas	day	1.00	368.00	368.00
TOTAL					9252.34
OVERHEADS & PROFIT @ 15 %					1387.85
TOTAL					10640.19
Rate per Set					10640.19
Say					10640.00

10.7 Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 33 kV grade as required :

10.7.1 70 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2528	Indoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 70 sq. mm.	set	1	8523.38	8523.38
Total cost of materials					8523.38
Cartage @ 1 % of A1					85.23
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasasi	day	0.50	368.00	184.00
TOTAL					9016.11
OVERHEADS & PROFIT @ 15 %					1352.42
TOTAL					10368.53
Rate per Set					10368.53
Say					10369.00

10.7.2 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2529	Indoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 120 sq. mm.	set	1	11651.59	11651.59
Total cost of materials					11651.59
Cartage @ 1 % of A1					116.52
LABOUR					
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasasi	day	0.80	368.00	294.40
TOTAL					12420.11
OVERHEADS & PROFIT @ 15 %					1863.02
TOTAL					14283.13
Rate per Set					14283.13
Say					14283.00

10.7.3 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2530	Indoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 240 sq. mm.	set	1	12553.01	12553.01
Total cost of materials					12553.01

	Cartage @ 1 % of A1				125.53
	LABOUR				
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				13493.54
	OVERHEADS & PROFIT @ 15 %				2024.03
	TOTAL				15517.57
	Rate per Set				15517.57
	Say				15518.00

10.8 Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 33 kV grade as required :

10.8.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2531	Outdoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 70 sq. mm.	set	1	12923.40	12923.40
	Total cost of materials				12923.40
	Cartage @ 1 % of A1				129.23
	LABOUR				
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
	TOTAL				13460.13
	OVERHEADS & PROFIT @ 15 %				2019.02
	TOTAL				15479.15
	Rate per Set				15479.15
	Say				15479.00

10.8.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2532	Outdoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 120 sq. mm.	set	1	15520.58	15520.58
	Total cost of materials				15520.58
	Cartage @ 1 % of A1				155.21
	LABOUR				
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasi	day	0.80	368.00	294.40
	TOTAL				16327.79

OVERHEADS & PROFIT @ 15 %	2449.17
TOTAL	18776.96
Rate per Set	18776.96
Say	18777.00

10.8.3 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2533	Outdoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 240 sq. mm.	set	1	17466.23	17466.23
Total cost of materials					17466.23
Cartage @ 1 % of A1					174.66
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
TOTAL					18455.89
OVERHEADS & PROFIT @ 15 %					2768.38
TOTAL					21224.27
Rate per Set					21224.27
Say					21224.00

10.9 Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 33 kV grade as required :

10.9.1 70 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2534	Straight through heat shrinkable cable jointing kit with ferrules for 33 kV grade XLPE cable for 3 core 70 sq. mm.	set	1	20527.50	20527.50
Total cost of materials					20527.50
Cartage @ 1 % of A1					205.28
LABOUR					
1002	Cable jointer	day	0.50	447.00	223.50
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					21140.28
OVERHEADS & PROFIT @ 15 %					3171.04
TOTAL					24311.32
Rate per Set					24311.32
Say					24311.00

10.9.2 120 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2535	Straight through heat shrinkable cable jointing kit with ferrules for 33 kV grade XLPE cable for 3 core 120 sq. mm.	set	1	25967.29	25967.29
Total cost of materials					25967.29
Cartage @ 1 % of A1					259.67
LABOUR					
1002	Cable jointer	day	0.80	447.00	357.60
1007	Khallasi	day	0.80	368.00	294.40
TOTAL					26878.96
OVERHEADS & PROFIT @ 15 %					4031.84
TOTAL					30910.80
Rate per Set					30910.80
Say					30911.00

10.9.3 240 sq. mm**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2536	Straight through heat shrinkable cable jointing kit with ferrules for 33 kV grade XLPE cable for 3 core 240 sq. mm.	set	1	36369.38	36369.38
Total cost of materials					36369.38
Cartage @ 1 % of A1					363.69
LABOUR					
1002	Cable jointer	day	1.00	447.00	447.00
1007	Khallasi	day	1.00	368.00	368.00
TOTAL					37548.07
OVERHEADS & PROFIT @ 15 %					5632.21
TOTAL					43180.28
Rate per Set					43180.28
Say					43180.00

CHAPTER 11 – POLE ERECTION

11.1 Erection of RCC/ PCC pole of following length in brick ballast and ramming the foundation, finishing with 150mm thick cement concrete (1:3:6) layer on top with including excavation and refilling etc. as required.

11.1.1 Above 4.5 meter and upto 6.5 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2947	Bricks ballast = 0.44+ 0.02 (wastage@5%) = 0.46 cum	cum	0.46	525.00	241.50
Total cost of materials					241.50
Cartage @ 1 % of A1					2.42
LABOUR					
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	3.66	368.00	1346.88
1013	Bhisti	day	0.16	368.00	58.88
TOTAL					1931.50
OVERHEADS & PROFIT @ 15 %					289.72
TOTAL					2221.22
14.4	Excavation including refilling as required	cum	1.07	318.00	340.26
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	4525.00	316.75
TOTAL					2878.23
Rate for each					2878.23
Say					2878.00

11.1.2 Above 6.5 meter and upto 8.0 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2947	Bricks ballast = 0.57+ 0.03(wastage @5%) = 0.60 cum	cum	0.60	525.00	315.00
Total cost of materials					315.00
Cartage @ 1 % of A1					3.15
LABOUR					
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	4.00	368.00	1472.00
1013	Bhisti	day	0.16	368.00	58.88
TOTAL					2130.85
OVERHEADS & PROFIT @ 15 %					319.63

	TOTAL				2450.48
14.4	Excavation including refilling as required	cum	1.36	318.00	432.48
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	4525.00	316.75
	TOTAL				3199.71
	Rate for each				3199.71
	Say				3200.00

11.1.3 Above 8.0 meter and upto 11.0 meter**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2947	Bricks ballast = 0.70+ 0.04 (wastage @5%) = 0.74 cum	cum	0.74	525.00	388.50
	Total cost of materials				388.50
	Cartage @ 1 % of A1				3.89
	LABOUR				
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	5.00	368.00	1840.00
1013	Bhisti	day	0.16	368.00	58.88
	TOTAL				2573.09
	OVERHEADS & PROFIT @ 15 %				385.96
	TOTAL				2959.05
14.4	Excavation including refilling as required	cum	1.73	318.00	550.14
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	4525.00	316.75
	TOTAL				3825.94
	Rate for each				3825.94
	Say				3826.00

11.1.4 Above 11.00 meter and upto 13.00 meter**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2947	Bricks ballast = 0.88+ 0.04 (wastage @5%) = 0.92 cum	cum	0.92	525.00	483.00
	Total cost of materials				483.00
	Cartage @ 1 % of A1				4.83
	LABOUR				
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.33	447.00	147.51

1007	Khallasi	day	5.33	368.00	1961.44
1013	Bhisti	day	0.16	368.00	58.88
	TOTAL				2789.97
	OVERHEADS & PROFIT @ 15 %				418.50
	TOTAL				3208.47
14.4	Excavation including refilling as required	cum	2.15	318.00	683.70
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	4525.00	316.75
	TOTAL				4208.92
	Rate for each				4208.92
	Say				4209.00

11.2 Erection of RCC/ PCC pole strut in brick ballast and ramming the foundation including excavation and refilling and secured with holding clamps, bolts, nuts, etc. as required.
Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2947	Bricks ballast = 0.53+ 0.03 (wastage @5%) = 0.56 cum	cum	0.56	525.00	294.00
2924	Clamps, bolts, nuts etc.	set	1.00	93.00	93.00
	Total cost of materials				387.00
	Cartage @ 1 % of A1				3.87
	LABOUR				
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.50	447.00	223.50
1007	Khallasi	day	7.50	368.00	2760.00
1013	Bhisti	day	0.16	368.00	58.88
	TOTAL				3567.56
	OVERHEADS & PROFIT @ 15 %				535.13
	TOTAL				4102.69
14.4	Excavation including refilling as required	cum	1.34	318.00	426.12
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.0804	4525.00	362.00
	TOTAL				4890.81
	Rate for each				4890.81
	Say				4891.00

11.3 Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

11.3.1 Above 4.5 meter and upto 6.5 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	3.00	368.00	1104.00
TOTAL					1385.82
OVERHEADS & PROFIT @ 15 %					207.87
TOTAL					1593.69
14.4	Excavation including refilling as required	cum	0.68	318.00	216.24
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.2104525	950.25	950.25
TOTAL					2760.18
Rate for each					2760.18
Say					2760.00

11.3.2 Above 6.5 meter and upto 8.0 meter**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	3.33	368.00	1225.44
TOTAL					1507.26
OVERHEADS & PROFIT @ 15 %					226.09
TOTAL					1733.35
14.4	Excavation including refilling as required	cum	0.87	318.00	276.66
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.2904525	1312.25	1312.25
TOTAL					3322.26
Rate for each					3322.26
Say					3322.00

11.3.3 Above 8.0 meter and upto 11.0 meter**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	3.66	368.00	1346.88
TOTAL					1628.70
OVERHEADS & PROFIT @ 15 %					244.31

	TOTAL				1873.01
14.4	Excavation including refilling as required	cum	1.06	318.00	337.08
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.38	4525.00	1719.50
	TOTAL				3929.59
	Rate for each				3929.59
	Say				3930.00

11.3.4 Above 11.00 meter and upto 13.00 meter**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	4.00	368.00	1472.00
	TOTAL				1753.82
	OVERHEADS & PROFIT @ 15 %				263.07
	TOTAL				2016.89
14.4	Excavation including refilling as required	cum	1.27	318.00	403.86
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.48	4525.00	2172.00
	TOTAL				4592.75
	Rate for each				4592.75
	Say				4593.00

11.4 Erection of steel tubular or rail pole strut in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and secured with holding clamps, bolts, nuts, etc. as required.**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2924	Clamps, bolts, nuts etc.	set	1.00	93.00	93.00
	Total cost of materials				93.00
	Cartage @ 1 % of A1				0.93
	LABOUR				
1010	Mason, Grade 2	day	0.33	407.00	134.31
1003	Lineman	day	0.50	447.00	223.50
1007	Khallasi	day	5.50	368.00	2024.00
	TOTAL				2475.74
	OVERHEADS & PROFIT @ 15 %				371.36
	TOTAL				2847.10
14.4	Excavation including refilling as required	cum	0.95	318.00	302.10

14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.34	4525.00	1538.50
	TOTAL				4687.70
	Rate for each				4687.70
	Say				4688.00

11.5 Providing and making steel pole collar with cement concrete (1 cement : 3 coarse sand : 6 stone aggregate 20mm) of specified size and shape including form work, plastering if required, curing etc. as required. (volume of pole/ pipe not to be deducted)
Details of cost for 1 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2950	Stone aggregate (single size) 20mm nominal size	cum	0.70	1175.00	822.50
2951	Stone aggregate (single size) 10mm nominal size	cum	0.24	1175.00	282.00
2952	Coarse sand (Zone III)	cum	0.47	1200.00	564.00
2948	Cement	tonne	0.22	5250.00	1155.00
	Total cost of materials				2823.50
	Cartage @ 1 % of A1				28.24
LABOUR					
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	1.80	368.00	662.40
1013	Bhisti	day	1.00	368.00	368.00
9999	Sundries	L.S.	70.00	1.10	77.00
	TOTAL				4040.54
	Add 1% for water charges				40.12
	TOTAL				4080.66
	OVERHEADS & PROFIT @ 15 %				612.10
	TOTAL				4692.76
	Rate per cum				4692.76
	Say				4693.00

11.6 Supplying and embedding following dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required.

11.6.1 32 mm dia

Details of cost for 2 meter long 1 No pipe

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2831	32 mm dia. G.I. pipe (medium class)	meter	2.00	178.79	357.58
	Total cost of materials				357.58
	Cartage @ 1 % of A1				3.58

LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.05	368.00	18.40
9999	Bending charges	L.S.	20.00	1.10	22.00
TOTAL					421.91
OVERHEADS & PROFIT @ 15 %					63.29
Cost for 2 metres					485.20
Rate per meter					242.60
Say					243.00

11.6.2 40 mm dia**Details of cost for 2 meter long 1 No pipe**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2826	40 mm dia. G.I. pipe (medium class)	meter	2.00	207.95	415.90
Total cost of materials					415.90
Cartage @ 1 % of A1					4.16
LABOUR					
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.05	368.00	18.40
9999	Bending charges	L.S.	20.00	1.10	22.00
TOTAL					480.81
OVERHEADS & PROFIT @ 15 %					72.12
Cost for 2 metres					552.93
Rate per meter					276.46
Say					276.00

CHAPTER 12 – MV OVER HEAD LINE WORK

- 12.1 Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20 mm X 60 cm), 7/ 4.00 mm dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.**

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00
2602	Stay wire (7/4.00 mm dia.) = 7.62 + 0.23 (wastage @ 3%) = 7.85 kg	kg	7.85	46.80	367.38
2618	Stay clamp	set	1.00	63.00	63.00
2604	Turn buckle (20 mm X 60 cm)	each	1.00	198.00	198.00
2605	Strain insulator	each	1.00	27.00	27.00
Total cost of materials					1195.38
Cartage @ 1 % of A1					11.95
LABOUR					
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	1.33	368.00	489.44
TOTAL					1844.28
OVERHEADS & PROFIT @ 15 %					276.64
TOTAL					2120.92
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
TOTAL					3769.52
Rate for Each					3769.52
Say					3770.00

- 12.2 Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20 mm X 60 cm), 7/ 3.15 mm dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.**

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00

2603	Stay wire (7/3.15 mm dia.) = 4.92 + 0.25 (wastage @ 5%) = 5.17 kg	kg	5.17	46.80	241.96
2618	Stay clamp	set	1.00	63.00	63.00
2604	Turn buckle (20 mm X 60 cm)	each	1.00	198.00	198.00
2605	Strain insulator	each	1.00	27.00	27.00
	Total cost of materials				1069.96
	Cartage @ 1 % of A1				10.70
	LABOUR				
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	1.33	368.00	489.44
	TOTAL				1717.61
	OVERHEADS & PROFIT @ 15 %				257.64
	TOTAL				1975.25
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
	TOTAL				3623.85
	Rate for Each				3623.85
	Say				3624.00

12.3 Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, bow tightener, 7/ 4.00 mm dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00
2603	Stay wire (7/3.15 mm dia.) = 7.62 + 0.23 (wastage @ 3%) = 7.85 kg	kg	7.85	46.80	367.38
2618	Stay clamp	set	1.00	63.00	63.00
2606	Bow tightner	each	1.00	19.80	19.80
2605	Strain insulator	each	1.00	27.00	27.00
	Total cost of materials				1017.18
	Cartage @ 1 % of A1				10.17
	LABOUR				
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	1.33	368.00	489.44
	TOTAL				1664.30
	OVERHEADS & PROFIT @ 15 %				249.65
	TOTAL				1913.95

14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
	TOTAL				3562.55
	Rate for Each				3562.55
	Say				3563.00

- 12.4 Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, bow tightener, 7/ 3.15 mm dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.**

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00
2603	Stay wire (7/3.15 mm dia.) = 4.92 + 0.15 (Wastage @3%) = 5.07kg	kg	5.07	46.80	237.28
2618	Stay clamp	set	1.00	63.00	63.00
2606	Bow tightner	each	1.00	19.80	19.80
2605	Strain insulator	each	1.00	27.00	27.00
	Total cost of materials				887.08
	Cartage @ 1 % of A1				8.87
LABOUR					
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasasi	day	1.33	368.00	489.44
	TOTAL				1532.90
	OVERHEADS & PROFIT @ 15 %				229.94
	TOTAL				1762.84
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
	TOTAL				3411.44
	Rate for Each				3411.44
	Say				3411.00

- 12.5 Supplying and erection of bow stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20 mm X 60 cm), 7/ 4.00 mm dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50 mm X 50 mm X 6 mm angle iron with 50 mm dia pulley fixed at one end of the brace as required.**

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00
2603	Stay wire (7/3.15 mm dia.) = 7.62 + 0.23 (wastage @ 3%) = 7.85 kg	kg	7.85	46.80	367.38
2618	Stay clamp	set	2.00	63.00	126.00
2604	Turn buckle (20 mm X 60 cm)	each	1.00	198.00	198.00
2605	Strain insulator	each	1.00	27.00	27.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	meter	0.60	211.50	126.90
2923	Pulley of 50 mm dia	each	1.00	72.00	72.00
Total cost of materials					1457.28
Cartage @ 1 % of A1					14.57
LABOUR					
1003	Lineman	day	0.33	447.00	147.51
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1007	Khallasasi	day	1.33	368.00	489.44
TOTAL					2129.15
OVERHEADS & PROFIT @ 15 %					319.37
TOTAL					2448.52
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
TOTAL					4097.12
Rate for Each					4097.12
Say					4097.00

12.6 Supplying and erection of bow stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20 mm X 60 cm), 7/ 3.15 mm dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50 mm X 50 mm X 6 mm angle iron with 50 mm dia pulley fixed at one end of the brace as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00
2603	Stay wire (7/3.15 mm dia.) = 4.92 + 0.15 (Wastage @3%) = 5.07kg	kg	5.07	46.80	237.28

2618	Stay clamp	set	2.00	63.00	126.00
2604	Turn buckle (20 mm X 60 cm)	each	1.00	198.00	198.00
2605	Strain insulator	each	1.00	27.00	27.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	meter	0.60	211.50	126.90
2923	Pulley of 50 mm dia	each	1.00	72.00	72.00
	Total cost of materials				1327.18
	Cartage @ 1 % of A1				13.27
	LABOUR				
1003	Lineman	day	0.33	447.00	147.51
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	1.33	368.00	489.44
	TOTAL				1997.75
	OVERHEADS & PROFIT @ 15 %				299.66
	TOTAL				2297.41
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
	TOTAL				3946.01
	Rate for Each				3946.01
	Say				3946.00

12.7 Supplying and erection of bow stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, bow tightener), 7/ 4.00 mm dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50 mm X 50 mm X 6 mm angle iron with 50 mm dia pulley fixed at one end of the brace as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00
2603	Stay wire (7/3.15 mm dia.) = 7.62 + 0.23 (wastage @ 3%) = 7.85 kg	kg	7.85	46.80	367.38
2618	Stay clamp	set	2.00	63.00	126.00
2606	Bow tightner	each	1.00	19.80	19.80
2605	Strain insulator	each	1.00	27.00	27.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	meter	0.60	211.50	126.90
2923	Pulley of 50 mm dia	each	1.00	72.00	72.00
	Total cost of materials				1279.08
	Cartage @ 1 % of A1				12.79

LABOUR					
1003	Lineman	day	0.33	447.00	147.51
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	1.33	368.00	489.44
TOTAL					1949.17
OVERHEADS & PROFIT @ 15 %					292.38
TOTAL					2241.55
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
TOTAL					3890.15
Rate for Each					3890.15
Say					3890.00

- 12.8 Supplying and erection of bow stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, bow tightener), 7/3.15mm dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50 mm X 50 mm X 6 mm angle iron with 50 mm dia pulley fixed at one end of the brace as required.**

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00
2603	Stay wire (7/3.15 mm dia.) = 4.92 + 0.15 (Wastage @3%) = 5.07kg	kg	5.07	46.80	237.28
2618	Stay clamp	set	2.00	63.00	126.00
2606	Bow tightner	each	1.00	19.80	19.80
2605	Strain insulator	each	1.00	27.00	27.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	meter	0.60	211.50	126.90
2923	Pulley of 50 mm dia	each	1.00	72.00	72.00
Total cost of materials					1148.98
Cartage @ 1 % of A1					11.49
LABOUR					
1003	Lineman	day	0.33	447.00	147.51
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	1.33	368.00	489.44
TOTAL					1817.77
OVERHEADS & PROFIT @ 15 %					272.67
TOTAL					2090.44
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60

14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
	TOTAL				3739.04
	Rate for Each				3739.04
	Say				3739.00

12.9 Erection of stay set complete (galvanised) in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	1.33	368.00	489.44
	TOTAL				636.95
	OVERHEADS & PROFIT @ 15 %				95.54
	TOTAL				732.49
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
	TOTAL				2381.09
	Rate for Each				2381.09
	Say				2381.00

12.10 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per meter) cross arm for 2 wire over head line complete with clamps, bolts, nuts and washer etc. including drilling of holes for insulator pins etc. (as per drawing) and painting with primer and finished paint as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr) = 0.55mtr = 3.93kg + 0.08 (wastage @ 2%) = 4.01 kg	kg	4.01	37.80	151.58
2813	50 mm X 6 mm flat iron = 0.9 + 0.02 (wastage @ 2%) = 0.92 kg	kg	0.92	37.80	34.78
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.00	12.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				202.36
	Cartage @ 1 % of A1				2.02
	LABOUR				
1005	Fitter, Grade 2	day	0.12	407.00	48.84

1009	Blacksmith, Grade 2	day	0.06	407.00	24.42
1007	Khallasi	day	0.18	368.00	66.24
1084	Drilling holes	each	6.00	6.00	36.00
	TOTAL				379.88
	OVERHEADS & PROFIT @ 15 %				56.98
	TOTAL				436.86
	Rate per Set				436.86
	Say				437.00

12.11 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per meter) cross arm for 4 wire over head line complete with clamps, bolts, nuts and washer etc. including drilling of holes for insulator pins etc. (as per drawing) and painting with primer and finished paint as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr) = 1.15 mtr = 8.21kg + 0.16 (wastage @ 2%) = 8.37 kg	kg	8.37	37.80	316.39
2813	50 mm X 6 mm flat iron = 0.9 + 0.02 (wastage @ 2%) = 0.92 kg	kg	0.92	37.80	34.78
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.00	12.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				367.17
	Cartage @ 1 % of A1				3.67
	LABOUR				
1005	Fitter, Grade 2	day	0.21	407.00	85.47
1009	Blacksmith, Grade 2	day	0.06	407.00	24.42
1007	Khallasi	day	0.25	368.00	92.00
1084	Drilling holes	each	10.00	6.00	60.00
	TOTAL				632.73
	OVERHEADS & PROFIT @ 15 %				94.91
	TOTAL				727.64
	Rate per Set				727.64
	Say				728.00

12.12 Erection of angle iron/ channel iron cross arm on wood/ RCC/ PCC/ steel tubular/ rail pole etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1003	Lineman	day	0.11	447.00	49.17
1007	Khallasi	day	0.22	368.00	80.96
	TOTAL				130.13

OVERHEADS & PROFIT @ 15 %	19.52
TOTAL	149.65
Rate per Set	149.65
Say	150.00

12.13 Supplying and erection of galvanised 'D' iron clamps complete with shackle insulator (75 mm X 90 mm), G. I. bolts, nuts and washers, coach screws etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2635	D' iron clamp (with coach screws)	each	1.00	76.50	76.50
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	1.00	36.45	36.45
Total cost of materials					112.95
Cartage @ 1 % of A1					1.13
LABOUR					
1003	Lineman	day	0.04	447.00	17.88
1005	Fitter, Grade 2	day	0.04	407.00	16.28
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					177.68
OVERHEADS & PROFIT @ 15 %					26.65
TOTAL					204.33
Rate per Set					204.33
Say					204.00

12.14 Supplying and erection of galvanised 'D' iron clamps complete with shackle insulator (100 mm X 110 mm), G.I. bolts, nuts and washers, coach screws etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2635	D' iron clamp (with coach screws)	each	1.00	76.50	76.50
2608	Shackle insulator (100 mm X 110 mm) with G.I. bolts and nuts	set	1.00	63.00	63.00
Total cost of materials					139.50
Cartage @ 1 % of A1					1.40
LABOUR					
1003	Lineman	day	0.04	447.00	17.88
1005	Fitter, Grade 2	day	0.04	407.00	16.28
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					204.50
OVERHEADS & PROFIT @ 15 %					30.67
TOTAL					235.17
Rate per Set					235.17
Say					235.00

12.15 Erection of galvanised 'D' iron clamps and insulator on pole as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.04	447.00	17.88
1007	Khallasi	day	0.04	368.00	14.72
TOTAL					32.60
OVERHEADS & PROFIT @ 15 %					4.89
TOTAL					37.49
Rate per Set					37.49
Say					37.00

12.16 Supplying and erection of 75 mm X 90 mm shackle insulator with G. I. Bolt, nuts and straps etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	1.00	36.45	36.45
2665	G.I. strap for shackle insulator	set	1.00	54.00	54.00
Total cost of materials					90.45
Cartage @ 1 % of A1					0.90
LABOUR					
1003	Lineman	day	0.03	447.00	13.41
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					126.84
OVERHEADS & PROFIT @ 15 %					19.03
TOTAL					145.87
Rate per Set					145.87
Say					146.00

12.17 Supplying and erection of 100 mm X 110 mm shackle insulator with G. I. Bolt, nuts and straps etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2608	Shackle insulator (100 mm X 110 mm) with G.I. bolts and nuts	set	1.00	63.00	63.00
2665	G.I. strap for shackle insulator	set	1.00	54.00	54.00
Total cost of materials					117.00
Cartage @ 1 % of A1					1.17
LABOUR					
1003	Lineman	day	0.03	447.00	13.41

1007	Khallasi	day	0.06	368.00	22.08
	TOTAL				153.66
	OVERHEADS & PROFIT @ 15 %				23.05
	TOTAL				176.71
	Rate per Set				176.71
	Say				177.00

12.18 Supplying and erection of 100 mm X 65 mm pin insulator complete with G. I. Spindle and nuts etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2609	Pin insulator (100 mm X 65 mm) with G.I. spindle and nuts	set	1.00	34.20	34.20
	Total cost of materials				34.20
	Cartage @ 1 % of A1				0.34
	LABOUR				
1003	Lineman	day	0.03	447.00	13.41
1007	Khallasi	day	0.06	368.00	22.08
	TOTAL				70.03
	OVERHEADS & PROFIT @ 15 %				10.50
	TOTAL				80.53
	Rate per Set				80.53
	Say				81.00

12.19 Supplying and erection of 100 mm X 80 mm pin insulator complete with G. I. Spindle and nuts etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2610	Pin insulator (100 mm X 80 mm) with G.I. spindle and nuts	set	1.00	36.00	36.00
	Total cost of materials				36.00
	Cartage @ 1 % of A1				0.36
	LABOUR				
1003	Lineman	day	0.03	447.00	13.41
1007	Khallasi	day	0.06	368.00	22.08
	TOTAL				71.85
	OVERHEADS & PROFIT @ 15 %				10.78
	TOTAL				82.63
	Rate per Set				82.63
	Say				83.00

12.20 Erection of LV/MV shackle/pin insulator etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.03	447.00	13.41
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					35.49
OVERHEADS & PROFIT @ 15 %					5.32
TOTAL					40.81
Rate per Set					40.81
Say					41.00

12.21 Erection of ACSR conductor of 7/2.11 mm to 7/3.00 mm diameter including binding etc. as required.

Details of cost for 133 kg

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	5.00	447.00	2235.00
1007	Khallasi	day	25.00	368.00	9200.00
TOTAL					11435.00
OVERHEADS & PROFIT @ 15 %					1715.25
Cost for 133 kg					13150.25
Rate per kg					98.87
Say					99.00

12.22 Erection of ACSR conductor of 7/3.35 mm to 7/4.00 diameter and above including binding etc. as required.

Details of cost for 133 kg

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	9.00	447.00	4023.00
1007	Khallasi	day	30.00	368.00	11040.00
TOTAL					15063.00
OVERHEADS & PROFIT @ 15 %					2259.45
Cost for 133 kg					17322.45
Rate per kg					130.24
Say					130.00

12.23 Erection of all aluminium conductor of 7/1.96 mm to 7/3.10 mm diameter including binding etc. as required.

Details of cost for 101 kg

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	5.00	447.00	2235.00

1007	Khallasi	day	25.00	368.00	9200.00
	TOTAL				11435.00
	OVERHEADS & PROFIT @ 15 %				1715.25
	Cost for 101 kg				13150.25
	Rate per kg				130.20
	Say				130.00

12.24 Erection of all aluminium conductor of 7/3.40 mm to 7/4.00 mm diameter and above including binding etc. as required.

Details of cost for 174 kg

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1003	Lineman	day	9.00	447.00	4023.00
1007	Khallasi	day	30.00	368.00	11040.00
	TOTAL				15063.00
	OVERHEADS & PROFIT @ 15 %				2259.45
	Cost for 174 kg				17322.45
	Rate per kg				99.55
	Say				100.00

12.25 Erection of G.I. Wire No. 8 SWG including binding etc. as required.

Details of cost for 153 kg

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1003	Lineman	day	1.25	447.00	558.75
1007	Khallasi	day	5.62	368.00	2068.16
	TOTAL				2626.91
	OVERHEADS & PROFIT @ 15 %				394.04
	Cost for 153 kg				3020.95
	Rate per kg				19.74
	Say				20.00

12.26 Erection of hexagonal type guard as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	LABOUR				
1003	Lineman	day	0.06	447.00	26.82
1007	Khallasi	day	0.18	368.00	66.24
	TOTAL				93.06
	OVERHEADS & PROFIT @ 15 %				13.96
	TOTAL				107.02
	Rate for Each				107.02
	Say				107.00

12.27 Erection of ring type guard as required.**Details of cost for one No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.02	447.00	8.94
1007	Khallasi	day	0.06	368.00	22.08
TOTAL					31.02
OVERHEADS & PROFIT @ 15 %					4.65
TOTAL					35.67
Rate for Each					35.67
Say					36.00

12.28 Erection of cradle guard as required.**Details of cost for one No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.04	447.00	17.88
1007	Khallasi	day	0.12	368.00	44.16
TOTAL					62.04
OVERHEADS & PROFIT @ 15 %					9.31
TOTAL					71.35
Rate for Each					71.35
Say					71.00

12.29 Supplying and erection of 15 A aerial fuse complete as required.**Details of cost for one No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2615	15 amps aerial fuse complete with porcelain tube as required	each	1.00	16.20	16.20
Total cost of materials					16.20
Cartage @ 1 % of A1					0.16
LABOUR					
1003	Lineman	day	0.04	447.00	17.88
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					63.68
OVERHEADS & PROFIT @ 15 %					9.55
TOTAL					73.23
Rate for Each					73.23
Say					73.00

12.30 Supplying and erection of 30 A aerial fuse complete as required.**Details of cost for one No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2616	30 amps aerial fuse complete with porcelain tube as required	each	1.00	25.20	25.20
Total cost of materials					25.20
Cartage @ 1 % of A1					0.25
LABOUR					
1003	Lineman	day	0.04	447.00	17.88
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					72.77
OVERHEADS & PROFIT @ 15 %					10.92
TOTAL					83.69
Rate for Each					83.69
Say					84.00

12.31 Erection of aerial fuse as required.**Details of cost for one No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.04	447.00	17.88
1007	Khallasi	day	0.08	368.00	29.44
TOTAL					47.32
OVERHEADS & PROFIT @ 15 %					7.10
TOTAL					54.42
Rate for Each					54.42
Say					54.00

12.32 Supplying and fixing MV horn gap lightning arrestor as required.**Details of cost for one No.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2611	MV horn gap lightning arrestor with pin insulator (100 mm X 65 mm), spindle and brass metal parts etc.	set	1.00	99.00	99.00
Total cost of materials					99.00
Cartage @ 1 % of A1					0.99
LABOUR					
1003	Lineman	day	0.06	447.00	26.82
1007	Khallasi	day	0.12	368.00	44.16
TOTAL					170.97
OVERHEADS & PROFIT @ 15 %					25.65

TOTAL	196.62
Rate for Each	196.62
Say	197.00

12.33 Fixing of MV lightning arrester as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.06	447.00	26.82
1007	Khallasi	day	0.12	368.00	44.16
TOTAL					70.98
OVERHEADS & PROFIT @ 15 %					10.65
TOTAL					81.63
Rate for Each					81.63
Say					82.00

12.34 Supplying and fixing of 32 mm dia X 2.00 metres long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV / HPSV street light fitting on pole including bending the pipe to the required shape, 2 nos 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2820	32 mm dia G.I. Pipe (light class) = 2.0 + 0.04 (Wastage @ 2%) = 2.04m	meter	2.04	152.25	310.59
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	37.80	100.17
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.00	24.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					438.76
Cartage @ 1 % of A1					4.39
LABOUR					
1005	Fitter, Grade 2	day	0.12	407.00	48.84
1003	Lineman	day	0.12	447.00	53.64
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					637.63
OVERHEADS & PROFIT @ 15 %					95.64
TOTAL					733.27
Rate for Each					733.27
Say					733.00

12.35 Providing and fixing 50 mm dia X 3.2 metres G.I. pipe (including accessories) complete with 50 mm X 50 mm X 6 mm angle iron bracket on wall and 75 mm X 90 mm shackle insulator with straps for house service connection including painting the angle and flat iron with primer and finish paint etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2821	50 mm dia G.I. Pipe (light class) = 2.1 + 0.04 (Wastage @ 2%) = 2.14m	meter	2.14	239.00	511.46
2839	50 mm dia. G.I. bend (medium class)	each	3.00	90.00	270.00
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	2.00	36.45	72.90
2620	Angle iron bracket (50 mm X 50 mm X 6 mm) 65 cm long	each	1.00	139.50	139.50
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2925	Flat iron clamps (50 mm X 6 mm) for G.I. pipe	each	4.00	28.90	115.60
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1133.46
Cartage @ 1 % of A1					11.33
LABOUR					
1005	Fitter, Grade 2	day	0.25	407.00	101.75
1003	Lineman	day	0.16	447.00	71.52
1007	Khallasi	day	0.50	368.00	184.00
TOTAL					1502.06
OVERHEADS & PROFIT @ 15 %					225.31
TOTAL					1727.37
Rate for Each					1727.37
Say					1727.00

12.36 Providing and fixing 50 mm dia X 5.6 metres G.I. pipe (including accessories) complete with 50 mm X 50 mm X 6 mm angle iron cross arm and 40 mm X 3mm M.S. flat iron clamps bends for guard wire, 75 mm X 90 mm shackle insulator and straps, 7/ 3.15 mm G.I. wire stay set for house service connection including painting the angle and flat iron with primer and finish paint etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2821	50 mm dia G.I. Pipe (light class) = 4.5 + 0.09 (Wastage @ 2%) = 4.59m	meter	4.50	239.00	1075.50
2839	50 mm dia. G.I. bend (medium class)	each	3.00	90.00	270.00
2807	50 mm X 50 mm X 6 mm angle iron = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	kg	3.04	37.80	114.91
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	2.00	36.45	72.90

2855	Steel fastener 6 mm X 75 mm	each	4.00	5.00	20.00
2925	Flat iron clamps (50 mm X 6 mm) for G.I. pipe	each	4.00	28.90	115.60
2623	Eye hook	each	1.00	29.70	29.70
2603	Stay wire (7/3.15 mm dia.) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	kg	0.82	46.80	38.38
2624	Guy clamp	each	1.00	67.50	67.50
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.00	12.00
2837	Nipple 50 mm dia	each	1.00	51.98	51.98
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1872.47
Cartage @ 1 % of A1					18.72
LABOUR					
1005	Fitter, Grade 2	day	0.16	407.00	65.12
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	0.41	368.00	150.88
TOTAL					2254.70
OVERHEADS & PROFIT @ 15 %					338.21
TOTAL					2592.91
Rate for Each					2592.91
Say					2593.00

12.37 Supplying and fixing of light class G.I. pipe of 50 mm dia. (nominal) 3 metres length along the pole for protection of under ground cable as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2821	50 mm dia G.I. Pipe (light class) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	meter	3.06	239.00	731.34
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	37.80	100.17
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.00	24.00
Total cost of materials					855.51
Cartage @ 1 % of A1					8.56
LABOUR					
1005	Fitter, Grade 2	day	0.12	407.00	48.84
1003	Lineman	day	0.12	447.00	53.64
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1058.55
OVERHEADS & PROFIT @ 15 %					158.78
TOTAL					1217.33
Rate for Each					1217.33
Say					1217.00

12.38 Supplying and fixing of light class G.I. pipe of 80 mm dia. (nominal) 3 metres length along the pole for protection of under ground cable as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2822	80 mm dia G.I. Pipe (light class) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	meter	3.06	380.36	1163.90
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	37.80	100.17
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.00	24.00
Total cost of materials					1288.07
Cartage @ 1 % of A1					12.88
LABOUR					
1005	Fitter, Grade 2	day	0.12	407.00	48.84
1003	Lineman	day	0.12	447.00	53.64
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1495.43
OVERHEADS & PROFIT @ 15 %					224.31
TOTAL					1719.74
Rate for Each					1719.74
Say					1720.00

12.39 Supplying and fixing of light class G.I. pipe of 100 mm dia. (nominal) 3 metres length along the pole for protection of under ground cable as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2823	100 mm dia G.I. Pipe (light class) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	meter	3.06	531.26	1625.66
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	37.80	100.17
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.00	24.00
Total cost of materials					1749.83
Cartage @ 1 % of A1					17.50
LABOUR					
1005	Fitter, Grade 2	day	0.12	407.00	48.84
1003	Lineman	day	0.12	447.00	53.64
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					1961.81
OVERHEADS & PROFIT @ 15 %					294.27
TOTAL					2256.08
Rate for Each					2256.08
Say					2256.00

12.40 Dismantling of over head lines comprising of copper/ aluminium over head conductor, G.I. wire, cross arms, insulators etc. as required.

Details of cost for 64 kg

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	2.00	447.00	894.00
1007	Khallasi	day	4.00	368.00	1472.00
TOTAL					2366.00
OVERHEADS & PROFIT @ 15 %					354.90
Cost for 64 kg					2720.90
Rate per kg					42.51
Say					43.00

12.41 Dismantling of pole/ street light standard/ strut embedded in brick ballast foundation etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.25	447.00	111.75
1007	Khallasi	day	2.00	368.00	736.00
TOTAL					847.75
OVERHEADS & PROFIT @ 15 %					127.16
TOTAL					974.91
Rate for Each					974.91
Say					975.00

12.42 Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required.

Details of cost for one No.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	2.66	368.00	978.88
TOTAL					1126.39
OVERHEADS & PROFIT @ 15 %					168.96
TOTAL					1295.35
Rate for Each					1295.35
Say					1295.00

CHAPTER 13 – HV OVER HEAD LINE WORK

- 13.1 Supplying and erection of galvanised stay set for 11 kV over head lines complete with 19/ 20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm thick, thimble, stay clamps, turn buckle (20 mm X 600 mm), 7/ 4.00 mm dia G.I. stay wire and 11 kV strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.**

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00
2602	Stay wire (7/4.00 mm dia.) = 8.40 + 0.25 (wastage @3%) = 8.65 kg	kg	8.65	46.80	404.82
2618	Stay clamp	set	1.00	63.00	63.00
2604	Turn buckle (20 mm X 60 cm)	each	1.00	198.00	198.00
2643	Strain insulator 11 KV	each	1.00	23.00	23.00
Total cost of materials					1228.82
Cartage @ 1 % of A1					12.29
LABOUR					
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasai	day	1.33	368.00	489.44
TOTAL					1878.06
OVERHEADS & PROFIT @ 15 %					281.71
TOTAL					2159.77
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
TOTAL					3808.37
Rate per Set					3808.37
Say					3808.00

- 13.2 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) pole top bracket/ cross arm for single 11 kV over head line conductor complete with 50 mm X 6mm flat iron clamp, bolts, nuts and washers including drilling holes for insulator pins, bolts and nuts etc. and painting with primer and finish paint as required.**

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr) = 1.78 + 0.04 (Wastage @ 2%) = 1.82kg	kg	1.82	37.80	68.80

2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	37.80	31.75
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.00	12.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				116.55
	Cartage @ 1 % of A1				1.17
	LABOUR				
1005	Fitter, Grade 2	day	0.12	407.00	48.84
1009	Blacksmith, Grade 2	day	0.06	407.00	24.42
1007	Khallasi	day	0.18	368.00	66.24
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				281.22
	OVERHEADS & PROFIT @ 15 %				42.18
	TOTAL				323.40
	Rate for Each				323.40
	Say				323.00

- 13.3 Supplying of 50 mm X 8 mm M.S. flat iron pole top bracket/ cross arm for single 11/ 22/33 kV over head line conductor complete with fixing clamps, bolts, nuts and washers drilling holes for insulator pins, bolts and nuts etc. and painting with primer and finish paint as required.**

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2814	50 mm X 8 mm flat iron = 1.60 + 0.03 (Wastage @ 2%) = 1.63kg	kg	1.63	37.80	61.61
2869	16 mm X 125 mm bolts and nuts with washers	set	2.00	20.00	40.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				105.61
	Cartage @ 1 % of A1				1.06
	LABOUR				
1005	Fitter, Grade 2	day	0.12	407.00	48.84
1009	Blacksmith, Grade 2	day	0.06	407.00	24.42
1007	Khallasi	day	0.18	368.00	66.24
1084	Drilling holes	each	4.00	6.00	24.00
1086	Welding charges	mm	100.00	0.50	50.00
	TOTAL				320.17
	OVERHEADS & PROFIT @ 15 %				48.02
	TOTAL				368.19
	Rate for Each				368.19
	Say				368.00

- 13.4 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) cross arm for two 11 kV over head line conductors complete with 50 mm X 50 mm X 6 mm (angle iron bracket welded to the channel iron and complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts and washers etc. (as per drawing) and painting with primer and finish paint as required.**

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr) = 7.85 + 0.16 (Wastage @ 2%) = 8.01kg	kg	8.01	37.80	302.78
2807	50 mm X 50 mm X 6 mm angle iron = 8.35 + 0.17 (Wastage @ 2%) = 8.52kg	kg	8.52	37.80	322.06
2813	50 mm X 6 mm flat iron = 1.63 + 0.03 (Wastage @ 2%) = 1.66kg	kg	1.66	37.80	62.75
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.00	24.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					715.59
Cartage @ 1 % of A1					7.16
LABOUR					
1005	Fitter, Grade 2	day	0.25	407.00	101.75
1009	Blacksmith, Grade 2	day	0.15	407.00	61.05
1007	Khallasi	day	0.40	368.00	147.20
1086	Welding charges	mm	200.00	0.50	100.00
1084	Drilling holes	each	8.00	6.00	48.00
TOTAL					1180.75
OVERHEADS & PROFIT @ 15 %					177.11
TOTAL					1357.86
Rate for Each					1357.86
Say					1358.00

- 13.5 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) V shape cross arm for two 11 kV over head line conductors complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts and washers etc. (as per drawing) and painting with primer and finish paint as required.**

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr) = 10.05 + 0.201 (Wastage @ 2%) = 10.251kg	kg	10.25	37.80	387.45
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	37.80	31.75

2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.00	12.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					435.20
Cartage @ 1 % of A1					4.35
LABOUR					
1005	Fitter, Grade 2	day	0.30	407.00	122.10
1009	Blacksmith, Grade 2	day	0.20	407.00	81.40
1007	Khallasi	day	0.50	368.00	184.00
1086	Welding charges	mm	320.00	0.50	160.00
1084	Drilling holes	each	4.00	6.00	24.00
TOTAL					1011.05
OVERHEADS & PROFIT @ 15 %					151.66
TOTAL					1162.71
Rate for Each					1162.71
Say					1163.00

13.6 Erection of pole top/ straight two wire/ V shape two wire, angle iron/ channel iron, cross arm on steel tubular/ rail/ PCC pole for 11/22/33 kV as required.

Details of cost for One Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.20	447.00	89.40
1007	Khallasi	day	0.40	368.00	147.20
TOTAL					236.60
OVERHEADS & PROFIT @ 15 %					35.49
TOTAL					272.09
Rate per Set					272.09
Say					272.00

13.7 Supplying of two lengths of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) double pole cross arm for three wire 11kV over head line conductors complete with through bolts and nuts for clamping to the poles, 50 mm X 6 mm M.S. flats welded on one side to the channel iron and with bolts and nuts on the other side for tying the cross arms together, including drilling holes for insulator pins/ fittings, bolts, nuts and washers etc. (as per drawing) and painting with primer and finish paint as required.

Details of cost for One Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr) = 32.84 + 0.66 (Wastage @ 2%) = 33.50kg	kg	33.50	37.80	1266.30
2813	50 mm X 6 mm flat iron = 2.52 + 0.0504 (Wastage @ 2%) = 2.57kg	kg	2.57	37.80	97.15
2869	16 mm X 125 mm bolts and nuts with washers	set	4.00	20.00	80.00

CHAPTER-13 : HV OVER HEAD LINE WORK

2868	16 mm X 40 mm bolts and nuts with washers	set	12.00	6.00	72.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1519.45
Cartage @ 1 % of A1					15.19
LABOUR					
1005	Fitter, Grade 2	day	0.50	407.00	203.50
1009	Blacksmith, Grade 2	day	0.15	407.00	61.05
1007	Khallasi	day	1.50	368.00	552.00
1084	Drilling holes	each	32.00	6.00	192.00
TOTAL					2543.19
OVERHEADS & PROFIT @ 15 %					381.48
TOTAL					2924.67
Rate per Set					2924.67
Say					2925.00

- 13.8 Supplying and erection of a set of cross bracing frame work for 11 kV over head line double pole structure having four members fabricated out of 50 mm X 50 mm X 6 mm angle iron to form a rectangle of minimum size 1400 mm width X 2500 mm height, complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. (as per drawing) and painting with primer and finish paint as required.**

Details of cost for One Set

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2807	50 mm X 50 mm X 6 mm angle iron = 41.98 + 0.84 (Wastage @ 2%) = 42.82kg	kg	42.82	37.80	1618.60
2813	50 mm X 6 mm flat iron = 3.65 + 0.07 (Wastage @ 2%) = 3.72kg	kg	3.72	37.80	140.62
2867	16 mm X 50 mm bolts and nuts with washers	set	8.00	6.00	48.00
2868	16 mm X 40 mm bolts and nuts with washers	set	1.00	6.00	6.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1817.22
Cartage @ 1 % of A1					18.17
LABOUR					
1003	Lineman	day	0.50	447.00	223.50
1005	Fitter, Grade 2	day	0.50	407.00	203.50
1009	Blacksmith, Grade 2	day	0.50	407.00	203.50
1007	Khallasi	day	3.00	368.00	1104.00
1084	Drilling holes	each	18.00	6.00	108.00
TOTAL					3677.89
OVERHEADS & PROFIT @ 15 %					551.68
TOTAL					4229.57
Rate per Set					4229.57
Say					4230.00

13.9 Erection of double pole 3 wire cross arm for 11KV/ 22KV/ 33 kV over head lines as required.**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.35	447.00	156.45
1007	Khallasi	day	1.05	368.00	386.40
TOTAL					542.85
OVERHEADS & PROFIT @ 15 %					81.43
TOTAL					624.28
Rate for Each					624.28
Say					624.00

13.10 Supplying and erection of 11 kV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2645	11 kV pin insulator with pin washers and nuts	set	1.00	113.00	113.00
Total cost of materials					113.00
Cartage @ 1 % of A1					1.13
LABOUR					
1003	Lineman	day	0.10	447.00	44.70
1007	Khallasi	day	0.10	368.00	36.80
TOTAL					195.63
OVERHEADS & PROFIT @ 15 %					29.34
TOTAL					224.97
Rate for Each					224.97
Say					225.00

13.11 Supplying and erection of 11 kV disc insulator for 11 kV over head lines with galvanised insulator fittings, ball and socket type and complete with galvanised strain clamps, bolts, nuts, washers etc. as required.**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2646	11 kV disc insulator	set	1.00	506.00	506.00
2647	Galvanised insulator hardware fitting ball and socket type with strain clamps, bolts, nuts and washers	set	1.00	148.50	148.50
Total cost of materials					654.50
Cartage @ 1 % of A1					6.55
LABOUR					

1003	Lineman	day	0.10	447.00	44.70
1005	Fitter, Grade 2	day	0.05	407.00	20.35
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					781.30
OVERHEADS & PROFIT @ 15 %					117.19
TOTAL					898.49
Rate for Each					898.49
Say					898.00

13.12 Erection of disc/ pin insulator for 11 kV over head lines as required.**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1003	Lineman	day	0.06	447.00	26.82
1007	Khallasi	day	0.12	368.00	44.16
TOTAL					70.98
OVERHEADS & PROFIT @ 15 %					10.65
TOTAL					81.63
Rate per Set					81.63
Say					81.50

13.13 Supplying and erection of three piece nonlinear resistor type lightning arrester suitable for 3 wire, 11 kV overhead lines with rated voltage 9 kV (rms) with a nominal discharge current rating of 5 kA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2650	3 piece lightning arrester set for 11 kV O.H. lines complete with G.I. clamps bolts and nuts with washers	set	1.00	1800.00	1800.00
Total cost of materials					1800.00
Cartage @ 1 % of A1					18.00
LABOUR					
1003	Lineman	day	0.25	447.00	111.75
1007	Khallasi	day	0.25	368.00	92.00
TOTAL					2021.75
OVERHEADS & PROFIT @ 15 %					303.26
TOTAL					2325.01
Rate for Each					2325.01
Say					2325.00

13.14 Supplying and erection of galvanised stay set for 33 kV over head lines complete with 19/ 20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm thick, thimble, stay clamps, turn buckle (20 mm X 600 mm), 7/ 4.00 mm dia

G.I. stay wire and 33 kV strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	540.00	540.00
2602	Stay wire (7/4.00 mm dia.) = 8.40 + 0.25 (wastage @ 3%) = 8.65 kg	kg	8.65	46.80	404.82
2618	Stay clamp	set	1.00	63.00	63.00
2604	Turn buckle (20 mm X 60 cm)	each	1.00	198.00	198.00
2644	Strain insulator 33 KV	each	1.00	34.00	34.00
Total cost of materials					1239.82
Cartage @ 1 % of A1					12.40
LABOUR					
1003	Lineman	day	0.33	447.00	147.51
1007	Khallasi	day	1.33	368.00	489.44
TOTAL					1889.17
OVERHEADS & PROFIT @ 15 %					283.38
TOTAL					2172.55
14.4	Excavation including refilling as required	cum	1.20	318.00	381.60
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	4525.00	1267.00
TOTAL					3821.15
Rate for Each					3821.15
Say					3821.00

13.15 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) pole top bracket/ cross arm for single 33 kV over head line conductor complete with 50 mm X 6mm flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts, washers etc. and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr) = 1.15 mtr = 8.21kg + 0.16 (wastage @ 2%) = 8.37 kg	kg	2.18	37.80	82.40
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	37.80	31.75
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.00	12.00

2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				130.15
	Cartage @ 1 % of A1				1.30
	LABOUR				
1005	Fitter, Grade 2	day	0.12	407.00	48.84
1009	Blacksmith, Grade 2	day	0.06	407.00	24.42
1007	Khallasi	day	0.18	368.00	66.24
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				294.95
	OVERHEADS & PROFIT @ 15 %				44.24
	TOTAL				339.19
	Rate for Each				339.19
	Say				339.00

13.16 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) cross arm for two 33 kV over head line conductors complete with 50 mm X 50 mm X 6 mm angle iron bracket welded to the channel iron and complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts, washers etc. and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)	kg	11.65	37.80	440.37
	= 11.42 + 0.23 (Wastage @ 2%) = 11.65kg				
2807	50 mm X 50 mm X 6 mm angle iron	kg	11.99	37.80	453.22
	= 11.75 + 0.24 (Wastage @ 2%) = 11.99kg				
2813	50 mm X 6 mm flat iron	kg	1.66	37.80	62.75
	= 1.63 + 0.03 (Wastage @ 2%) = 1.66kg				
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.00	24.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				984.34
	Cartage @ 1 % of A1				9.84
	LABOUR				
1005	Fitter, Grade 2	day	0.25	407.00	101.75
1009	Blacksmith, Grade 2	day	0.15	407.00	61.05
1007	Khallasi	day	0.40	368.00	147.20
1084	Drilling holes	each	8.00	6.00	48.00
1086	Welding charges	mm	200.00	0.50	100.00
	TOTAL				1452.18
	OVERHEADS & PROFIT @ 15 %				217.83
	TOTAL				1670.01
	Rate for Each				1670.01
	Say				1670.00

- 13.17 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) V shape cross arm for two 33 kV over head line conductors complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. and painting with primer and finish paint as required.**

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr) = 13.26 + 0.27 (Wastage @ 2%) = 13.53kg	kg	13.53	37.80	511.43
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	37.80	31.75
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.00	12.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					559.18
Cartage @ 1 % of A1					5.59
LABOUR					
1005	Fitter, Grade 2	day	0.30	407.00	122.10
1009	Blacksmith, Grade 2	day	0.20	407.00	81.40
1007	Khallasari	day	0.50	368.00	184.00
1086	Welding charges	mm	320.00	0.50	160.00
1084	Drilling holes	each	4.00	6.00	24.00
TOTAL					1136.27
OVERHEADS & PROFIT @ 15 %					170.44
TOTAL					1306.71
Rate for Each					1306.71
Say					1307.00

- 13.18 Supplying of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per metre), pole top bracket/ cross arm for single 33 kV over head line conductor complete with 50 mm X 6 mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. and painting with primer and finish paint as required.**

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr) = 2.87 + 0.06 (Wastage @ 2%) = 2.93kg	kg	2.93	37.80	110.75
2813	50 mm X 6 mm flat iron = 1.00 + 0.02 (Wastage @ 2%) = 1.02kg	kg	1.02	37.80	38.56
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.00	12.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					165.31
Cartage @ 1 % of A1					1.65

LABOUR					
1005	Fitter, Grade 2	day	0.15	407.00	61.05
1009	Blacksmith, Grade 2	day	0.07	407.00	28.49
1007	Khallasi	day	0.22	368.00	80.96
1084	Drilling holes	each	4.00	6.00	24.00
TOTAL					361.46
OVERHEADS & PROFIT @ 15 %					54.22
TOTAL					415.68
Rate for Each					415.68
Say					416.00

13.19 Supplying of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per metre) cross arm for two wire 33 kV over head line conductors complete with 50 mm X 50 mm X 6 mm angle iron bracket welded to the channel iron and complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins/ fittings, bolts, nuts, washers etc. and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr)	kg	18.11	37.80	684.56
	= 17.75 + 0.36 (Wastage @ 2%) = 18.11kg				
2807	50 mm X 50 mm X 6 mm angle iron	kg	11.99	37.80	453.22
	= 11.75 + 0.24 (Wastage @ 2%) = 11.99kg				
2813	50 mm X 6 mm flat iron	kg	2.05	37.80	77.49
	= 2.01 + 0.0402 (Wastage @ 2%) = 2.05kg				
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.00	24.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					1243.27
Cartage @ 1 % of A1					12.43
LABOUR					
1005	Fitter, Grade 2	day	0.35	407.00	142.45
1009	Blacksmith, Grade 2	day	0.15	407.00	61.05
1007	Khallasi	day	0.50	368.00	184.00
1086	Welding charges	mm	200.00	0.50	100.00
1084	Drilling holes	each	8.00	6.00	48.00
TOTAL					1791.20
OVERHEADS & PROFIT @ 15 %					268.68
TOTAL					2059.88
Rate for Each					2059.88
Say					2060.00

- 13.20 Supplying of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per metre) V shape cross arm for two 33 kV over head line conductors complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts, washers etc. and painting with primer and finish paint as required.**

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr) = 17.75 + 0.36 (Wastage @ 2%) = 18.11kg	kg	18.11	37.80	684.56
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	37.80	31.75
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.00	12.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
Total cost of materials					732.31
Cartage @ 1 % of A1					7.32
LABOUR					
1005	Fitter, Grade 2	day	0.30	407.00	122.10
1009	Blacksmith, Grade 2	day	0.20	407.00	81.40
1007	Khallasi	day	0.50	368.00	184.00
1086	Welding charges	mm	500.00	0.50	250.00
1084	Drilling holes	each	4.00	6.00	24.00
TOTAL					1401.13
OVERHEADS & PROFIT @ 15 %					210.17
TOTAL					1611.30
Rate for Each					1611.30
Say					1611.00

- 13.21 Supplying of two lengths of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per metre) double pole cross arm for three wire 33 kV over head line conductors complete with through bolts and nuts for clamping to the poles, 50 mm X 6 mm M.S. flats welded on one side to the channel iron and with bolts and nuts on the other side for tying the cross arms together, including drilling holes for insulator pins/ fittings, bolts, nuts, washers etc. and painting with primer and finish paint as required.**

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr) = 43.98 + 0.8796 (Wastage @ 2%) = 44.86kg	kg	44.86	37.80	1695.71
2813	50 mm X 6 mm flat iron = 2.88 + 0.06 (Wastage @ 2%) = 2.94kg	kg	2.94	37.80	111.13
2870	16 mm X 150 mm bolts and nuts with washers	set	4.00	24.00	96.00
2868	16 mm X 40 mm bolts and nuts with washers	set	12.00	6.00	72.00

2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				1978.84
	Cartage @ 1 % of A1				19.79
	LABOUR				
1005	Fitter, Grade 2	day	0.60	407.00	244.20
1009	Blacksmith, Grade 2	day	0.15	407.00	61.05
1007	Khallasi	day	2.70	368.00	993.60
1084	Drilling holes	each	32.00	6.00	192.00
	TOTAL				3489.48
	OVERHEADS & PROFIT @ 15 %				523.42
	TOTAL				4012.90
	Rate for Each				4012.90
	Say				4013.00

13.22 Supplying and erection of a set of cross bracing frame work for 33 kV over head line double pole structure having four members fabricated out of 65 mm X 65 mm X 6 mm angle iron to form a rectangle of minimum size 2400 mm width X 2800 mm height complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts, washers etc. and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2808	65 mm X 65 mm X 6 mm angle iron = 76.42 + 1.53 (Wastage @ 2%) = 77.95kg	kg	77.95	37.80	2946.51
2813	50 mm X 6 mm flat iron = 4.42 + 0.09 (Wastage @ 2%) = 4.51kg	kg	4.51	37.80	170.48
2867	16 mm X 50 mm bolts and nuts with washers	set	8.00	6.00	48.00
2868	16 mm X 40 mm bolts and nuts with washers	set	1.00	6.00	6.00
2936	Painting with primer and finish paint	L.S.	1.00	4.00	4.00
	Total cost of materials				3174.99
	Cartage @ 1 % of A1				31.75
	LABOUR				
1003	Lineman	day	0.60	447.00	268.20
1005	Fitter, Grade 2	day	0.50	407.00	203.50
1009	Blacksmith, Grade 2	day	0.50	407.00	203.50
1007	Khallasi	day	3.40	368.00	1251.20
1084	Drilling holes	each	18.00	6.00	108.00
	TOTAL				5241.14
	OVERHEADS & PROFIT @ 15 %				786.17
	TOTAL				6027.31
	Rate for Each				6027.31
	Say				6027.00

13.23 Supplying and erection of 33 kV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2648	33 kV pin insulator with pin washers and nuts	set	1.00	506.00	506.00
Total cost of materials					506.00
Cartage @ 1 % of A1					5.06
LABOUR					
1003	Lineman	day	0.15	447.00	67.05
1007	Khallasi	day	0.15	368.00	55.20
TOTAL					633.31
OVERHEADS & PROFIT @ 15 %					95.00
TOTAL					728.31
Rate for Each					728.31
Say					728.00

13.24 Supplying and erection of a set of three 11 kV disc insulator for 33 kV over head lines with galvanised insulator fittings, ball and socket type and complete with galvanised strain clamps, bolts, nuts, washers etc. as required.**Details of cost for one No**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2646	11 kV disc insulator	set	3.00	506.00	1518.00
2649	Galvanised insulator hardware fitting ball and socket type with strain clamps, bolts, nuts and washers for 3 Nos 11 kV disk insulator	set	1.00	433.80	433.80
Total cost of materials					1951.80
Cartage @ 1 % of A1					19.52
LABOUR					
1003	Lineman	day	0.25	447.00	111.75
1005	Fitter, Grade 2	day	0.15	407.00	61.05
1007	Khallasi	day	0.40	368.00	147.20
TOTAL					2291.32
OVERHEADS & PROFIT @ 15 %					343.70
TOTAL					2635.02
Rate for Each					2635.02
Say					2635.00

13.25 Supplying and erection of single piece nonlinear resistor type lightning arrester suitable for 3 wire, 33 kV overhead lines with rated voltage 30 kV (rms) with a nominal discharge current rating of 10 kA (station class) and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2651	Single piece lightning arrester set for 33 kV O.H. lines complete with G.I. clamps bolts and nuts with washers	set	1.0	15750.00	15750.00
Total cost of materials					15750.00
Cartage @ 1 % of A1					157.50
LABOUR					
1003	Lineman	day	0.30	447.00	134.10
1007	Khallasi	day	0.30	368.00	110.40
TOTAL					16152.00
OVERHEADS & PROFIT @ 15 %					2422.80
TOTAL					18574.80
Rate for Each					18574.80
Say					18575.00

CHAPTER 14 – CIVIL ITEMS

- 14.1 Excavation for foundation in soft soil including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 meters.**

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1016	Mate	day	0.25	368.00	92.00
1012	Beldar/ coolie	day	4.25	368.00	1564.00
TOTAL					1656.00
Add 1% for water charges					16.56
TOTAL					1672.56
OVERHEADS & PROFIT @ 15 %					250.88
Cost for 10 cum					1923.44
Rate per Cum					192.34
Say					192.00

- 14.2 Excavation for cable trenches of depth upto 1.2 m in soft soil including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 meters.**

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1016	Mate	day	0.25	368.00	92.00
1012	Beldar/ coolie	day	4.30	368.00	1582.40
TOTAL					1674.40
Add 1% for water charges					16.74
TOTAL					1691.14
OVERHEADS & PROFIT @ 15 %					253.67
Cost for 10 cum					1944.81
Rate per Cum					194.48
Say					194.00

- 14.3 Filling available excavated earth (excluding rock) in trenches, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 meters.**

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1016	Mate	day	0.20	368.00	73.60
1012	Beldar/ coolie	day	2.50	368.00	920.00
1013	Bhisti	day	0.20	368.00	73.60
TOTAL					1067.20

Add 1% for water charges	10.67
TOTAL	1077.87
OVERHEADS & PROFIT @ 15 %	161.68
Cost for 10 cum	1239.55
Rate per Cum	123.96
Say	124.00

- 14.4 Excavation for cable trenches in soft soil, depth upto 1.2 m including dressing of sides lift upto 1.5 m, including getting out the excavated soil, refilling with sand and or good soil after laying of cable/ pipe etc. in layers of 20 cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 meters.**

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1016	Mate	day	0.25	368.00	92.00
1012	Beldar/ coolie	day	4.30	368.00	1582.40
1016	Mate	day	0.20	368.00	73.60
1012	Beldar/ coolie	day	2.50	368.00	920.00
1013	Bhisti	day	0.20	368.00	73.60
TOTAL					2741.60
Add 1% for water charges					27.42
TOTAL					2769.02
OVERHEADS & PROFIT @ 15 %					415.35
Cost for 10 cum					3184.37
Rate per Cum					318.44
Say					318.00

- 14.5 Deduct for not consolidation by ramming and watering while re-filling with sand and or good soil in cable/ pipe laying.**

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1016	Mate	day	0.20	368.00	73.60
1012	Beldar/ coolie	day	1.25	368.00	460.00
1013	Bhisti	day	0.20	368.00	73.60
TOTAL					607.20
Add 1% for water charges					6.07
TOTAL					613.27
OVERHEADS & PROFIT @ 15 %					91.99
Cost for 10 cum					705.26
Rate per Cum					70.53
Say					70.50

- 14.6 Excavation of the cable trenches in hard rock not exceeding 1.5 meters in width, and lift upto 1.5 meters, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 meters.**

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
LABOUR					
1015	Stone Breaker	day	5.00	407.00	2035.00
1014	Excavator	day	3.00	368.00	1104.00
1009	Blacksmith, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	3.00	368.00	1104.00
1011	Stone Chiseler	day	2.00	407.00	814.00
TOTAL					5138.40
OVERHEADS & PROFIT @ 15 %					770.76
Cost for 10 cum					5909.16
Rate per Cum					590.92
Say					591.00

- 14.7 Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc. including form work etc. as required.**

Details of cost for 1 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2950	Stone aggregate (single size) 20mm nominal size	cum	0.67	1175.00	787.25
2951	Stone aggregate (single size) 10mm nominal size	cum	0.22	1175.00	258.50
2952	Coarse sand (Zone III)	cum	0.45	1200.00	540.00
2948	Cement	tonne	0.32	5250.00	1680.00
Total cost of materials					3265.75
Cartage @ 1 % of A1					32.66
LABOUR					
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	1.80	368.00	662.40
1013	Bhisti	day	1.00	368.00	368.00
9999	Sundries	L.S.	70.00	1.10	77.00
TOTAL					4487.21
Add 1% for water charges					44.55
TOTAL					4531.75
OVERHEADS & PROFIT @ 15 %					674.86
TOTAL					5206.61
Rate per Cum					5206.61
Say					5207.00

14.8 Providing and laying in position cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc. including form work etc. as required.

Details of cost for 1 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2950	Stone aggregate (single size) 20mm nominal size	cum	0.70	1175.00	822.50
2951	Stone aggregate (single size) 10mm nominal size	cum	0.24	1175.00	282.00
2952	Coarse sand (Zone III)	cum	0.47	1200.00	564.00
2948	Cement	tonne	0.22	5250.00	1155.00
	Total cost of materials				2823.50
	Cartage @ 1 % of A1				28.24
LABOUR					
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	1.80	368.00	662.40
1013	Bhisti	day	1.00	368.00	368.00
9999	Sundries	L.S.	70.00	1.10	77.00
	TOTAL				4040.54
	Add 1% for water charges				40.12
	TOTAL				4080.66
	OVERHEADS & PROFIT @ 15 %				607.86
	TOTAL				4688.52
	Rate per Cum				4688.52
	Say				4689.00

14.9 Providing and laying in position cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) in foundation of pump, DG set etc. including form work etc. as required.

Details of cost for 1 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2949	Stone aggregate (single size) 40mm nominal size	cum	0.65	1050.00	682.50
2950	Stone aggregate (single size) 20mm nominal size	cum	0.24	1175.00	282.00
2952	Coarse sand (Zone III)	cum	0.47	1200.00	564.00
2948	Cement	tonne	0.22	5250.00	1155.00
	Total cost of materials				2683.50
	Cartage @ 1 % of A1				26.84
LABOUR					
1010	Mason, Grade 2	day	0.20	407.00	81.40
1012	Beldar/ coolie	day	1.80	368.00	662.40

1013	Bhisti	day	1.00	368.00	368.00
9999	Sundries	L.S.	70.00	1.10	77.00
TOTAL					3899.14
Add 1% for water charges					38.72
TOTAL					3937.86
OVERHEADS & PROFIT @ 15 %					586.65
TOTAL					4524.51
Rate per Cum					4524.51
Say					4525.00

14.10 Providing and laying in position reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc. including form work etc. as required (excluding reinforcement).

Details of cost for 1 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2950	Stone aggregate (single size) 20mm nominal size	cum	0.67	1175.00	787.25
2951	Stone aggregate (single size) 10mm nominal size	cum	0.22	1175.00	258.50
2952	Coarse sand (Zone III)	cum	0.45	1200.00	540.00
2948	Cement	tonne	0.32	5250.00	1680.00
Total cost of materials					3265.75
Cartage @ 1 % of A1					32.66
LABOUR					
1010	Mason, Grade 2	day	0.25	407.00	101.75
1012	Beldar/ coolie	day	2.40	368.00	883.20
1013	Bhisti	day	1.00	368.00	368.00
9999	Sundries	L.S.	70.00	1.10	77.00
TOTAL					4728.36
Add 1% for water charges					46.96
TOTAL					4775.31
OVERHEADS & PROFIT @ 15 %					711.40
TOTAL					5486.71
Rate per Cum					5486.71
Say					5487.00

14.11 Providing brick work (in width 225 mm or more) with F.P.S. bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand) at all levels.

Details of cost for 1 cum

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	494.00	3.00	1482.00

CHAPTER-14 : CIVIL ITEMS

2952	Coarse sand (Zone III)	cum	0.27	1200.00	324.00
2948	Cement	tonne	0.1	5250.00	525.00
	Total cost of materials				2331.00
	Cartage @ 1 % of A1				23.31
	LABOUR				
1010	Mason, Grade 2	day	0.90	407.00	366.30
1012	Beldar/ coolie	day	2.00	368.00	736.00
1013	Bhisti	day	0.22	368.00	80.96
	TOTAL				3537.57
	Add 1% for water charges				35.14
	TOTAL				3572.71
	OVERHEADS & PROFIT @ 15 %				532.41
	TOTAL				4105.12
	Rate per Cum				4105.12
	Say				4105.00

**14.12 Providing 15mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels.
Details of cost for 10 sqm**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2946	Fine sand	cum	0.18	672.00	120.96
2948	Cement	tonne	0.07	5250.00	367.50
	Total cost of materials				488.46
	Cartage @ 1 % of A1				4.88
	LABOUR				
1010	Mason, Grade 2	day	1.00	407.00	407.00
1012	Beldar/ coolie	day	1.00	368.00	368.00
1013	Bhisti	day	1.00	368.00	368.00
	TOTAL				1636.34
	Add 1% for water charges				16.31
	TOTAL				1652.66
	OVERHEADS & PROFIT @ 15 %				247.17
	Cost for 10 sqm				1899.83
	Rate per Sqm				189.98
	Say				190.00

14.13 Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc. as required

14.13.1 50 mm dia

Details of cost for 30 Meters

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2832	50 mm dia. G.I. pipe (medium class)	meter	30.00	276.86	8305.80
	Total cost of materials				8305.80

	Cartage @ 1 % of A1				83.06
	LABOUR				
1004	Fitter, Grade 1	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
1012	Beldar/ coolie	day	4.00	368.00	1472.00
	TOTAL				10129.81
	OVERHEADS & PROFIT @ 15 %				1519.47
	Cost for 30 Meters				11649.28
	Rate per Meters				388.31
	Say				388.00

14.13.2 80 mm dia**Details of cost for 30 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2833	80 mm dia. G.I. pipe (medium class)	meter	30.00	452.38	13571.40
	Total cost of materials				13571.40
	Cartage @ 1 % of A1				135.71
	LABOUR				
1004	Fitter, Grade 1	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
1012	Beldar/ coolie	day	4.00	368.00	1472.00
	TOTAL				15448.06
	OVERHEADS & PROFIT @ 15 %				2317.21
	Cost for 30 Meters				17765.27
	Rate per Meters				592.18
	Say				592.00

14.13.3 100 mm dia**Details of cost for 30 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
2834	100 mm dia. G.I. pipe (medium class)	meter	30.00	655.39	19661.70
	Total cost of materials				19661.70
	Cartage @ 1 % of A1				196.62
	LABOUR				
1004	Fitter, Grade 1	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
1012	Beldar/ coolie	day	4.00	368.00	1472.00
	TOTAL				21599.27
	OVERHEADS & PROFIT @ 15 %				3239.89
	Cost for 30 Meters				24839.16
	Rate per Meters				827.97
	Say				828.00

14.13.4 150 mm dia**Details of cost for 30 Meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2835	150 mm dia. G.I. pipe (medium class)	meter	30.00	1031.89	30956.70
	Total cost of materials				30956.70
	Cartage @ 1 % of A1				309.57
LABOUR					
1004	Fitter, Grade 1	day	0.33	447.00	147.51
1007	Khallasi	day	0.33	368.00	121.44
1012	Beldar/ coolie	day	4.00	368.00	1472.00
	TOTAL				33007.22
	OVERHEADS & PROFIT @ 15 %				4951.08
	Cost for 30 Meters				37958.30
	Rate per Meters				1265.28
	Say				1265.00

14.14 Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc. as required.

14.14.1 100 mm dia**Details of cost for 10 Meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2841	100 mm dia RCC pipe NP2 class	meter	10.00	141.75	1417.50
2845	100 mm dia RCC collar NP2 class	each	5.00	21.00	105.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.01	672.00	6.72
	Total cost of materials				1581.72
	Cartage @ 1 % of A1				15.82
LABOUR					
1010	Mason, Grade 2	day	0.66	407.00	268.62
1012	Beldar/ coolie	day	0.66	368.00	242.88
1013	Bhisti	day	0.16	368.00	58.88
1012	Beldar/ coolie	day	2.50	368.00	920.00
	TOTAL				3087.92
	OVERHEADS & PROFIT @ 15 %				463.19
	Cost for 10 Meters				3551.11
	Rate per Meters				355.11
	Say				355.00

14.14.2 150 mm dia**Details of cost for 10 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2842	150 mm dia RCC pipe NP2 class	meter	10.00	162.00	1620.00
2846	150 mm dia RCC collar NP2 class	each	5.00	26.00	130.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.01	672.00	6.72
Total cost of materials					1809.22
Cartage @ 1 % of A1					18.09
LABOUR					
1010	Mason, Grade 2	day	0.80	407.00	325.60
1012	Beldar/ coolie	day	0.80	368.00	294.40
1013	Bhisti	day	0.16	368.00	58.88
1012	Beldar/ coolie	day	2.75	368.00	1012.00
TOTAL					3518.19
OVERHEADS & PROFIT @ 15 %					527.73
Cost for 10 Meters					4045.92
Rate per Meters					404.59
Say					405.00

14.14.3 250 mm dia**Details of cost for 10 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2843	250 mm dia RCC pipe NP2 class	meter	10.00	197.00	1970.00
2847	250 mm dia RCC collar NP2 class	each	5.00	42.00	210.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.01	672.00	6.72
Total cost of materials					2239.22
Cartage @ 1 % of A1					22.39
LABOUR					
1010	Mason, Grade 2	day	1.00	407.00	407.00
1012	Beldar/ coolie	day	1.00	368.00	368.00
1013	Bhisti	day	0.20	368.00	73.60
1012	Beldar/ coolie	day	2.85	368.00	1048.80
TOTAL					4159.01
OVERHEADS & PROFIT @ 15 %					623.85
Cost for 10 Meters					4782.86
Rate per Meters					478.29
Say					478.00

14.14.4 300 mm dia**Details of cost for 10 Meters**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
2844	300 mm dia RCC pipe NP2 class	meter	10.00	274.00	2740.00
2848	300 mm dia RCC collar NP2 class	each	4.00	51.00	204.00
2948	Cement	tonne	0.01	5250.00	52.50
2946	Fine sand	cum	0.02	672.00	13.44
Total cost of materials					3009.94
Cartage @ 1 % of A1					30.10
LABOUR					
1010	Mason, Grade 2	day	1.20	407.00	488.40
1012	Beldar/ coolie	day	1.20	368.00	441.60
1013	Bhisti	day	0.20	368.00	73.60
1012	Beldar/ coolie	day	3.00	368.00	1104.00
TOTAL					5147.64
OVERHEADS & PROFIT @ 15 %					772.15
Cost for 10 Meters					5919.79
Rate per Meters					591.98
Say					592.00

14.15 Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.

14.15.1 63 mm dia (OD-63 mm & ID-51 mm nominal)

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 50 meter					
MATERIAL					
2891	63 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5 m	meter	52.50	57.00	2992.50
2896	63 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	14.00	28.00
Total cost of materials					3020.50
Cartage @ 1 %					30.21
LABOUR					
1007	Khallasi (2 nos for 0.5 day)	day	1.00	368.00	368.00
TOTAL					3418.71
Add 15 % Over Head & Contractor Profit					512.81
TOTAL					3931.51
Cost for 50 meter					3931.51
Rate per meter					78.63
Say					79.00

14.15.2 90 mm dia (OD-90 mm & ID-76 mm nominal)

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 50 meter					
MATERIAL					
2892	90 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	80.00	4200.00
2897	90 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	22.00	24.00
Total cost of materials					4224.00
Cartage @ 1 %					42.24
LABOUR					
1007	Khallasi (2 nos for 0.5 day)	day	1.00	368.00	368.00
TOTAL					4634.24
Add 15 % Over Head & Contractor Profit					695.14
TOTAL					5329.38
Cost for 50 meter					5329.38
Rate per meter					106.59
Say					107.00

14.15.3 120 mm dia (OD-120 mm & ID-103 mm nominal)

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 50 meter					
MATERIAL					
2893	120 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	130.00	6825.00
2898	120 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	27.00	54.00
Total cost of materials					6879.00
Cartage @ 1 %					68.79
LABOUR					
1007	Khallasi (2 nos for 0.75 day)	day	1.50	368.00	552.00
TOTAL					7499.79
Add 15 % Over Head & Contractor Profit					1124.97
TOTAL					8624.76
Cost for 50 meter					8624.76
Rate per meter					172.50
Say					173.00

14.15.4 160 mm dia (OD-160 mm & ID-135 mm nominal)

Code	Description	Rate	Unit	Qty	Total
Details of cost for 50 meter					
MATERIAL					
2894	160 mm dia (OD) DWC HDPE Pipe	meter	52.50	195.00	10237.50

	= 50 + 2.5 (Wastage @ 5%) = 52.5				
2899	160 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	54.00	108.00
	Total cost of materials				10345.50
	Cartage @ 1 %				103.46
	LABOUR				
1007	Khallasi (2 nos for 1.0 day)	day	2.00	368.00	736.00
	TOTAL				11184.96
	Add 15 % Over Head & Contractor Profit				1677.74
	TOTAL				12862.70
	Cost for 50 meter				12862.70
	Rate per meter				257.25
	Say				257.00

14.15.5 200 mm dia (OD-200 mm & ID-175 mm nominal)

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for 50 meter				
	MATERIAL				
2895	200 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	278.00	14595.00
2900	200 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	73.00	146.00
	Total cost of materials				14741.00
	Cartage @ 1 %				147.41
	LABOUR				
1007	Khallasi (2 nos for 1.0 day)	day	2.00	368.00	736.00
	TOTAL				15624.41
	Add 15 % Over Head & Contractor Profit				2343.66
	TOTAL				17968.07
	Cost for 50 meter				17968.07
	Rate per meter				359.36
	Say				359.00

14.16 Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required.

14.16.1 63 mm dia (OD-63 mm & ID-51 mm nominal)

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for 50 meter				
	MATERIAL				
2891	63 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5 m	meter	52.50	57.00	2992.50

2896	63 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	14.00	28.00
	Total cost of materials				3020.50
	Cartage @ 1 %				30.21
	LABOUR				
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				3418.71
	Add 15 % Over Head & Contractor Profit				512.81
	Excavation i/c refilling etc. as required	cum	305.00	9.19	2802.95
	TOTAL				6734.46
	Cost for 50 meter				6734.46
	Rate per meter				134.69
	Say				135.00

14.16.2 90 mm dia (OD-90 mm & ID-76 mm nominal)

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for 50 meter				
	MATERIAL				
2892	90 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	80.00	4200.00
2897	90 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	22.00	24.00
	Total cost of materials				4224.00
	Cartage @ 1 %				42.24
	LABOUR				
1007	Khallasi	day	1.00	368.00	368.00
	TOTAL				4634.24
	Add 15 % Over Head & Contractor Profit				695.14
	Excavation i/c refilling etc. as required	cum	305.00	9.19	2802.95
	TOTAL				8132.33
	Cost for 50 meter				8132.33
	Rate per meter				162.65
	Say				163.00

14.16.3 120 mm dia (OD-120 mm & ID-103 mm nominal)

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	Details of cost for 50 meter				
	MATERIAL				
2893	120 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	130.00	6825.00
2898	120 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	27.00	54.00
	Total cost of materials				6879.00

	Cartage @ 1 %				68.79
	LABOUR				
1007	Khallasi	day	1.50	368.00	552.00
	TOTAL				7499.79
	Add 15 % Over Head & Contractor Profit				1124.97
	Excavation i/c refilling etc. as required	cum	305.00	9.19	2802.95
	TOTAL				11427.71
	Cost for 50 meter				11427.71
	Rate per meter				228.55
	Say				229.00

14.16.4 160 mm dia (OD-160 mm & ID-135 mm nominal)

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 50 meter					
MATERIAL					
2894	160 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	195.00	10237.50
2899	160 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	54.00	108.00
	Total cost of materials				10345.50
	Cartage @ 1 %				103.46
LABOUR					
1007	Khallasi	day	2.00	368.00	736.00
	TOTAL				11184.96
	Add 15 % Over Head & Contractor Profit				1677.74
	Excavation i/c refilling etc. as required	cum	305.00	9.19	2802.95
	TOTAL				15665.65
	Cost for 50 meter				15665.65
	Rate per meter				313.31
	Say				313.00

14.16.5 200 mm dia (OD-200 mm & ID-175 mm nominal)

ICD No.	Description	Unit	Qty	Rate	Amount ₹
Details of cost for 50 meter					
MATERIAL					
2895	200 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	278.00	14595.00
2900	200 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	73.00	146.00
	Total cost of materials				14741.00
	Cartage @ 1 %				147.41
LABOUR					
1007	Khallasi	day	2.00	368.00	736.00

TOTAL				15624.41
Add 15 % Over Head & Contractor Profit				2343.66
Excavation i/c refilling etc. as required	cum	305.00	9.19	2802.95
TOTAL				20771.02
Cost for 50 meter				20771.02
Rate per meter				415.42
Say				415.00

CHAPTER 15-LIGHTING CONTROL

- 15.1 Supplying, installation, testing and commissioning of Passive Infrared (PIR) technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10 A, for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.**

COST FOR 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1445	Passive Infrared (PIR) technology based occupancy sensor having high performance non regulating programmable type having suitable for connected load upto 10 A and suitable for mounting up to height of 2.8 mtr and suitable for area of minimum diameter 5m	each	1	2587.50	2587.5
	Cartage @ 1 % of A1				25.88
LABOUR					
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
TOTAL					2776.38
OVERHEADS & PROFIT @ 15 %					416.46
TOTAL					3192.84
Rate for 1 nos.					3192.84
Say					3193.00

- 15.2 Supplying, installation, testing and commissioning of Passive Infrared (PIR) technology based occupancy sensor with day light dimming (lighting level shall be regulated as per availability of natural day light in an area along with occupancy detection.) having high performance, regulating programmable type, suitable for connected load upto 10 A, for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.**

COST FOR 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
1446	Passive Infrared (PIR) technology based occupancy sensor with day light dimming having high performance regulating programmable type having suitable for connected load upto 10 A and suitable for mounting up to height of 2.8 mtr and suitable for area of minimum diameter 5m	each	1	3684.37	3684.37
	Cartage @ 1 % of A1				36.84
LABOUR					
1001	Wireman	day	0.20	447.00	89.40

1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				3884.21
	OVERHEADS & PROFIT @ 15 %				582.63
	TOTAL				4466.84
	Rate for 1nos.				4466.84
	Say				4467.00

15.3 Supplying, installation, testing and commissioning of Microwave technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10 A, for mounting height up to 2.6 mtr and for 5m X 20m coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.

COST FOR 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1447	Microwave technology based occupancy sensor having high performance non regulating programmable type having suitable for connected load upto 10 A and suitable for mounting up to height of 2.6 mtr and suitable for area of minimum 5m X 20m	each	1	5090.62	5090.62
	Cartage @ 1 % of A1				50.91
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				5304.53
	OVERHEADS & PROFIT @ 15 %				795.68
	TOTAL				6100.21
	Rate for 1nos.				6100.21
	Say				6100.00

15.4 Supplying, installation, testing and commissioning of Astronomical time switch capable of following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight (Auto ON, Auto OFF, Auto) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.

15.4.1 1 output per phase and suitable for single phase supply

Cost for 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1448	Astronomical time switch capable of following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight (Auto ON, Auto OFF, Auto) with manual				

CHAPTER-15 : LIGHTING CONTROL

	override facility with 12/24 hour display format with suitable battery and indication for relay status suitable for 1 output per phase and suitable for single phase supply	each	1	2047.50	2047.5
	Cartage @ 1 % of A1				20.48
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				2230.98
	OVERHEADS & PROFIT @ 15 %				334.65
	TOTAL				2565.63
	Rate for 1nos.				2565.63
	Say				2566.00

**15.4.2 2 output per phase and suitable for single phase supply
COST FOR 1 nos.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1449	Astronomical time switch capable of following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status suitable for 2 output per phase and suitable for single phase supply	each	1	4426.50	4426.5
	Cartage @ 1 % of A1				44.27
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				4633.77
	OVERHEADS & PROFIT @ 15 %				695.06
	TOTAL				5328.83
	Rate for 1nos.				5328.83
	Say				5329.00

**15.4.3 3output(1output per phase) and suitable for three phase supply
COST FOR 1 nos.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	MATERIALS				
1450	Astronomical time switch capable of following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON,				

	Auto OFF, Auto) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status suitable for 3output (1output per phase) and suitable for three phase supply	each	1	5222.75	5222.75
	Cartage @ 1 % of A1				52.23
	LABOUR				
1001	Wireman	day	0.20	447.00	89.40
1007	Khallasi	day	0.20	368.00	73.60
	TOTAL				5437.98
	OVERHEADS & PROFIT @ 15 %				815.70
	TOTAL				6253.68
	Rate for 1nos.				6253.68
	Say				6254.00

CHAPTER-16 HVAC(ONLY PLUMBING,DUCTING & AHU)**PLUMBING****INSULATED CHILLED WATER PIPING (resin bonded fiber glass / Mineral Wool INSULATION)**

16.1 Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with 80 kg/cum density resin bonded fiber glass or 144 Kg / cum density mineral wool insulation (non combustible) pipe section insulation covered with a layer of 120 gm/sqm polythene sheet (vapour barrier) and finally applying 0.63mm aluminium sheet cladding complete with type 3, grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints and repairing of damage to building etc. as per specifications and as required.

Note:The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

16.1.1 Chilled water piping of nominal size - 400mm dia. (75mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A (MATERIALS)					
3001	A(1) Basic Price M.S. Pipe - 400 mm dia. add for wastage @5%	meter	10	5040.63	50406.30 2520.32
	Total of (A1)				52926.62
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				7938.99
	Total of (A1+A2)				60865.61
4001	A(3) Basic Price of Insulation(pipe section) - 75 mm add for wastage @10%	meter	10	1507.13	15071.30 1507.13
	Total of (A3)				16578.43
3023	A(4) Pipe aluminium Cladding add for wastage @10%	sqm	16.65	300.00	4995.78 499.58
	Total of (A4)				5495.36
	Total of (A1)+A(2)+A(3)+A(4)				82939.39
	Add for cartage etc. @ 1% of (A1)+A(2)+A(3)+A(4)				829.39
	TOTAL OF A				83768.79
B (LABOUR)					
	B(1) For Piping work				
1004	Fitter	day	3	447.00	1341.00
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.75	407.00	305.25

1007	Helper	day	4.75	368.00	1748.00
	Total of B(1)				3841.25
	B(2) For Insulation works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B(2)				1018.75
	For Cladding works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B (3)				1018.75
	Total of B				5878.75
	Total A+B				89647.54
	C Overhead and Profits @ 15% of (A+B)				13447.13
	Total				103094.67
	Rate for 1 meter				10309.47
	TOTAL				10309.47
	Say				10309.00

16.1.2 Chilled water piping of nominal size - 350mm dia. (75mm thick insulation)**COST FOR 10 METRES PIPE**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A (MATERIALS)				
3002	A(1) Basic Price M.S. Pipe - 350 mm dia. add for wastage @ 5%	meter	10	2955.02	29550.15 1477.51
	Total of (A1)				31027.66
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				
	Total of (A1+A2)				4654.15 35681.81
4002	A(3) Basic Price of Insulation - 75 mm add for wastage@10%	meter	10	1347.10	13470.98 1347.10
	Total of A(3)				14818.07
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	15.08	300.00	4524.48 452.45
	Total of A(4)				4976.93
	Total of (A(1)+A(2)+A(3)+A(4))				55476.81
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				
	Total of A				554.77 56031.57
	B (LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	3	447.00	1341.00
1087	Welder	day	1	447.00	447.00

CHAPTER-16 : HVAC(ONLY PLUMBING,DUCTING & AHU)

1006	Painter	day	0.75	407.00	305.25
1007	Helper	day	4.75	368.00	1748.00
	Total of B(1)				3841.25
	B(2) For Insulation works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B(2)				1018.75
	For Cladding works				
1004	Fitter	day	1.25	447.00	558.75
	Helper	day	1.25	368.00	460.00
	Total of B (3)				1018.75
	Total of B				5878.75
	Total A+B				61910.32
	C Overhead and Profits @ 15% of (A+B)				
					9286.55
	TOTAL				71196.87
	Rate for 1 meter				
					7119.69
	TOTAL				7119.69
	Say				7120.00

**16.1.3 Chilled water piping of nominal size - 300mm dia. (75mm thick insulation)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3003	A(1) Basic Price M.S. Pipe - 300 mm dia. add for wastage @ 5%	meter	10	2673.41	26734.05 1336.70
	Total of (A1)				28070.75
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				4210.61
	Total of (A1+A2)				32281.37
4003	A(3) Basic Price of Insulation (Pipe Section) - 75 mm add for wastage @ 10%	meter	10	1104.16	11041.57 1104.16
	Total of A(3)				12145.73
3023	A(4) Pipe aluminium Cladding add for wastage @ 10%	sqm	13.51	300.00	4053.18 405.32
	Total of A(4)				4458.50
	Total of (A(1)+A(2)+A(3)+A(4))				48885.59
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				
					488.86
	Total of A				49374.45
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	3	447.00	1341.00

1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.75	407.00	305.25
1007	Helper	day	4.75	368.00	1748.00
Total of B(1)					3841.25
B(2) For Insulation works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B(2)					1018.75
For Cladding works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B (3)					1018.75
Total of B					5878.75
Total A+B					55253.20
C Overhead and Profits @ 15% of (A+B)					8287.98
TOTAL					63541.18
Rate for 1 meter					6354.12
TOTAL					6354.12
Say					6354.00

**16.1.4 Chilled water piping of nominal size - 250mm dia. (75mm thick insulation)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3004	A(1) Basic Price M.S. Pipe - 250 mm dia. add for wastage @5%	meter	10	2249.10	22491.00 1124.55
Total of (A1)					23615.55
A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%					
Total of (A1+A2)					27157.88
4004	A(3) Basic Price of Insulation - 75 mm add for wastage @10%	meter	10	964.69	9646.91 964.69
Total of A(3)					10611.61
3023	A(4) Pipe aluminium Cladding add for wastage @10%	sqm	11	300.00	3299.10 329.91
Total of A(4)					3629.01
Total of (A(1)+A(2)+A(3)+A(4))					41398.50
Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))					
Total of A					41812.48
B(LABOUR)					
B(1) For Piping work					
1004	Fitter	day	2.5	447.00	1117.50

CHAPTER-16 : HVAC(ONLY PLUMBING,DUCTING & AHU)

1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	4	368.00	1472.00
	Total of B(1)				3240.00
	B(2) For Insulation works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B(2)				815.00
	For Cladding works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B (3)				815.00
	Total of B				4870.00
	Total A+B				46682.48
	C Overhead and Profits @ 15% of (A+B)				7002.37
	Total				53684.86
	Rate for 1 meter				5368.49
	TOTAL				5368.49
	Say				5368.00

16.1.5 Chilled water piping of nominal size - 200mm dia. (75mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia. add for wastage@5%	meter	10	1792.67	17926.65 896.33
	Total of (A1)				18822.98
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				
	Total of (A1+A2)				21646.43
4005	A(3) Basic Price of Insulation - 75 mm add for wastage@10%	meter	10	816.87	8168.71 816.87
	Total of A(3)				8985.58
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	9.426	300.00	2827.80 282.78
	TOTAL				3110.58
	Total of (A(1)+A(2)+A(3)+A(4))				33742.59
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				
	Total of A				34080.01
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2.5	447.00	1117.50

1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	4	368.00	1472.00
	Total of B(1)				3240.00
	B(2) For Insulation works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B(2)				815.00
	For Cladding works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B (3)				815.00
	Total of B				4870.00
	Total A+B				38950.01
	C Overhead and Profits @ 15% of (A+B)				
					5842.50
	Total				44792.52
	Rate for 1 meter				
					4479.25
	TOTAL				4479.25
	Say				4479.00

16.1.6 Chilled water piping of nominal size - 150mm dia. (50mm thick insulation)**COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3006	A(1) Basic Price M.S. Pipe - 150 mm dia. add for wastage@5%	meter	10	1138.54	11385.36 569.27
	Total of A(1)				11954.63
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				
					1793.19
	Total of (A1+A2)				13747.82
4006	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	413.26	4132.56 413.26
	Total of A(3)				4545.81
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	7.855	300.00	2356.50 235.65
	Total of A(4)				2592.15
	Total of (A(1)+A(2)+A(3)+A(4))				20885.78
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				
					208.86
	Total of A				21094.64
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00

1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	3.5	368.00	1288.00
	Total of B(1)				2832.50
	B(2) For Insulation works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B(2)				815.00
	For Cladding works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B (3)				815.00
	Total of B				4462.50
	Total A+B				25557.14
	C Overhead and Profits @ 15% of (A+B)				3833.57
	Total				29390.71
	Rate for 1 meter				2939.07
	TOTAL				2939.07
	Say				2939.00

**16.1.7 Chilled water piping of nominal size - 125mm dia. (50mm thick insulation)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3007	A(1) Basic Price M.S. Pipe - 125 mm dia. add for wastage@5%	meter	10	958.28	9582.77 479.14
	Total of (A1)				10061.91
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1509.29
	Total of (A1+A2)				11571.20
4007	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	364.41	3644.10 364.41
	Total of A(3)				4008.51
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	6.441	300.00	1932.33 193.23
	Total of A(4)				2125.56
	Total of (A(1)+A(2)+A(3)+A(4))				17705.28
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				177.05
	Total of A				17882.33
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2.00	447.00	894.00

1087	Welder	day	0.75	447.00	335.25
1006	Painter	day	0.50	407.00	203.50
1007	Helper	day	3.25	368.00	1196.00
	Total of B(1)				2628.75
	B(2) For Insulation works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B(2)				611.25
	For Cladding works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B (3)				611.25
	Total of B				3851.25
	Total A+B				21733.58
	C Overhead and Profits @ 15% of (A+B)				
	Total				24993.62
	Rate for 1 meter				
	TOTAL				2499.36
	Say				2499.00

16.1.8 Chilled water piping of nominal size - 100mm dia. (50mm thick insulation)**COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia.	meter	10	776.98	7769.79
	add for wastage@5%				388.49
	Total of (A1)				8158.28
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				
	Total of (A1+A2)				9382.02
4008	A(3) Basic Price of Insulation - 50 mm	meter	10	315.57	3155.65
	add for wastage@10%				315.57
	Total of A(3)				3471.22
3023	A(4) Pipe aluminium Cladding	sqm	5.656	300.00	1696.68
	add for wastage@10%				169.67
	Total of A(4)				1866.35
	Total of (A(1)+A(2)+A(3)+A(4))				14719.59
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				
	Total of A				14866.78
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2.5	447.00	1117.50

CHAPTER-16 : HVAC(ONLY PLUMBING,DUCTING & AHU)

1087	Welder	day	0.75	447.00	335.25
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	3.25	368.00	1196.00
	Total of B(1)				2750.50
	B(2) For Insulation works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B(2)				611.25
	For Cladding works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B (3)				611.25
	Total of B				3973.00
	Total A+B				18839.78
	C Overhead and Profits @ 15% of (A+B)				2825.97
	Total				21665.75
	Rate for 1 meter				2166.58
	TOTAL				2166.58
	Say				2167.00

**16.1.9 Chilled water piping of nominal size - 80mm dia. (50mm thick insulation)
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3009	A(1) Basic Price M.S. Pipe - 80 mm dia. add for wastage @5%	meter	10	527.40	5274.05 263.70
	Total of (A1)				5537.75
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				830.66
	Total of (A1+A2)				6368.41
4009	A(3) Basic Price of Insulation - 50 mm add for wastage @10%	meter	10	269.29	2692.91 269.29
	Total of A(3)				2962.20
3023	A(4) Pipe aluminium Cladding add for wastage @10%	sqm	4.085	300.00	1225.38 122.54
	Total of A(4)				1347.92
	Total of (A(1)+A(2)+A(3)+A(4))				10678.53
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				106.79
	Total of A				10785.31
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00

1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.75	368.00	1012.00
	Total of B(1)				2231.25
	B(2) For Insulation works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B(2)				611.25
	For Cladding works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B (3)				611.25
	Total of B				3453.75
	Total A+B				14239.06
	C Overhead and Profits @ 15% of (A+B)				2135.86
	Total				16374.92
	Rate for 1 meter				1637.49
	TOTAL				1637.49
	Say				1637.00

16.1.10 Chilled water piping of nominal size - 65mm dia. (50mm thick insulation)
COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3010	A(1) Basic Price M.S. Pipe - 65 mm dia. add for wastage@5%	meter	10	435.46	4354.56 217.73
	Total of (A1)				4572.29
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				
	Total of (A1+A2)				685.84 5258.13
4010	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	244.23	2442.26 244.23
	Total of A(3)				2686.48
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	3.613	300.00	1083.99 108.40
	Total of A(4)				1192.39
	Total of (A(1)+A(2)+A(3)+A(4))				9137.00
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				
	Total of A				91.37 9228.37
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00

CHAPTER-16 : HVAC(ONLY PLUMBING,DUCTING & AHU)

1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.75	368.00	1012.00
	Total of B(1)				2231.25
	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B (3)				407.50
	Total of B				3046.25
	Total A+B				12274.62
	C Overhead and Profits @ 15% of (A+B)				1841.19
	Total				14115.82
	Rate for 1 meter				1411.58
	TOTAL				1411.58
	Say				1412.00

16.1.11 Chilled water piping of nominal size - 50mm dia. (50mm thick insulation)
COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3011	A(1) Basic Price M.S. Pipe - 50 mm dia. add for wastage@5%	meter	10	332.26	3322.62 166.13
	Total of (A1)				3488.75
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				
	Total of (A1+A2)				4012.06
4011	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	213.38	2133.76 213.38
	Total of A(3)				2347.14
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	3.142	300.00	942.60 94.26
	Total of A(4)				1036.86
	Total of (A(1)+A(2)+A(3)+A(4))				
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				73.96
	Total of A				7470.02
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	1.5	447.00	670.50

1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.25	368.00	828.00
Total of B(1)					1823.75
B(2) For Insulation works					
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
Total of B(2)					407.50
For Cladding works					
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
Total of B (3)					407.50
Total of B					2638.75
Total A+B					10108.77
C Overhead and Profits @ 15% of (A+B)					1516.32
Total					11625.09
Rate for 1 meter					1162.51
TOTAL					1162.51
Say					1163.00

**16.1.12 Chilled water piping of nominal size - 40mm dia. (50mm thick insulation)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3012	A(1) Basic Price M.S. Pipe - 40 mm dia.	meter	10	234.64	2346.44
	add for wastage@5%				117.32
Total of (A1)					2463.76
	A(2) Add for necessary brackets,supports,saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				369.56
Total of (A1+A2)					2833.32
4012	A(3) Basic Price of Insulation - 50 mm	meter	10	192.17	1921.67
	add for wastage@10%				192.17
Total of A(3)					2113.84
3023	A(4) Pipe aluminium Cladding	sqm	2.828	300.00	848.34
	add for wastage@10%				84.83
Total of A(4)					933.17
Total of (A(1)+A(2)+A(3)+A(4))					5880.33
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				58.80
Total of A					5939.14
B(LABOUR)					
B(1) For Piping work					
1004	Fitter	day	1.5	447.00	670.50
1087	Welder	day	0.5	447.00	223.50

CHAPTER-16 : HVAC(ONLY PLUMBING,DUCTING & AHU)

1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.25	368.00	828.00
	Total of B(1)				1823.75
	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B (3)				407.50
	Total of B				2638.75
	Total A+B				8577.89
	C Overhead and Profits @ 15% of (A+B)				1286.68
	Total				9864.57
	Rate for 1 meter				986.46
	TOTAL				986.46
	Say				986.00

**16.1.13 Chilled water piping of nominal size - 32mm dia. (50mm thick insulation)
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3013	A(1) Basic Price M.S. Pipe - 32 mm dia. add for wastage @5%	meter	10	201.71	2017.10 100.86
	Total of (A1)				2117.96
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				
	Total of (A1+A2)				2435.65
4013	A(3) Basic Price of Insulation - 50 mm add for wastage @10%	meter	10	180.60	1805.98 180.60
	Total of A(3)				1986.58
3023	A(4) Pipe aluminium Cladding add for wastage @10%	sqm	2.576	300.00	772.93 77.29
	Total of A(4)				850.23
	Total of (A(1)+A(2)+A(3)+A(4))				5272.46
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				
	Total of A				5325.18
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	1.25	447.00	558.75
1087	Welder	day	0.25	447.00	111.75

1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	1.75	368.00	644.00
	Total of B(1)				1416.25
	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B (3)				407.50
	Total of B				2231.25
	Total A+B				7556.43
	C Overhead and Profits @ 15% of (A+B)				
	Total				8689.90
	Rate for 1 meter				
	TOTAL				868.99
	Say				869.00

**16.1.14 Chilled water piping of nominal size - 25mm dia. (50mm thick insulation)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3014	A(1) Basic Price M.S. Pipe - 25 mm dia. add for wastage@5%	meter	10	156.59	1565.87 78.29
	Total of (A1)				1644.16
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				
	Total of (A1+A2)				1890.78
4014	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	164.53	1645.31 164.53
	Total of A(3)				1809.84
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	2.357	300.00	706.95 70.70
	Total of A(4)				777.65
	Total of (A(1)+A(2)+A(3)+A(4))				4478.27
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				
	Total of A				4523.05
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	1.25	447.00	558.75
1087	Welder	day	0.25	447.00	111.75

1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	1.75	368.00	644.00
Total of B(1)					1416.25
B(2) For Insulation works					
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
Total of B(2)					407.50
For Cladding works					
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
Total of B (3)					407.50
Total of B					2231.25
Total A+B					6754.30
C Overhead and Profits @ 15% of (A+B)					1013.15
Total					7767.45
Rate for 1 meter					776.74
TOTAL					776.74
Say					777.00

16.2 Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with following closed cell elastometric nitrile rubber of minimum 45 Kg / cu m density, thermal conductivity 0.037 W/MK or better at 20 deg mean temperature class 'O' insulation applied by suitable rubber based adhesive complete including repairing of damage to building etc. as per specifications and as required complete in all respect.

Note:-The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

16.2.1 Chilled water piping of nominal size - 400mm dia. (32mm thick nitrile rubber insulation)

COST FOR10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3001	A(1) Basic Price M.S. Pipe - 400 mm dia. add for wastage@5%	meter	10	5040.63	50406.30 2520.32
Total of (A1)					52926.62
A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%					7938.99
Total of (A1+A2)					60865.61
4015	A(3) Basic Price of Insulation - 32 mm nitrile rubber	sqm	12.57	658.35	8274.14

	add for wastage@10%				827.41
	Total of A(3)				9101.56
3023	A(4) Non-Metallic Composite Cladding	sqm	0	300.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				69967.16
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				699.67
	Total of A				70666.84
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	3	447.00	1341.00
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.75	407.00	305.25
1007	Helper	day	4.75	368.00	1748.00
	Total of B(1)				3841.25
	B(2) For Insulation works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B(2)				815.00
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				4656.25
	Total A+B				75323.09
	C Overhead and Profits @ 15% of (A+B)				11298.46
	Total				86621.55
	Rate for 1 meter				8662.15
	TOTAL				8662.15
	Say				8662.00

16.2.2 Chilled water piping of nominal size - 350mm dia. (32mm thick nitrile rubber)**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3002	A(1) Basic Price M.S. Pipe - 350 mm dia.	meter	10	2955.02	29550.15
	add for wastage@5%				1477.51
	Total of (A1)				31027.66
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				4654.15
	Total of (A1+A2)				35681.81

4015	A(3) Basic Price of Insulation - 32 mm nitrile rubber	sqm	11	658.35	7239.87
	add for wastage@10%				723.99
	Total of A(3)				7963.86
3023	A(4) Pipe aluminium Cladding	sqm	0	300.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				43645.67
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				436.46
	Total of A				44082.13
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	3	447.00	1341.00
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.75	407.00	305.25
1007	Helper	day	4.75	368.00	1748.00
	Total of B(1)				3841.25
	B(2) For Insulation works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B(2)				815.00
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				4656.25
	Total A+B				48738.38
	C Overhead and Profits @ 15% of (A+B)				7310.76
	Total				56049.13
	Rate for 1 meter				5604.91
	TOTAL				5604.91
	Say				5605.00

16.2.3 Chilled water piping of nominal size - 300mm dia. (32mm thick nitrile rubber insulation)

COST FOR10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3003	A(1) Basic Price M.S. Pipe - 300 mm dia.	meter	10	2673.41	26734.05
	add for wastage@5%				1336.70
	Total of (A1)				28070.75
	A(2) Add for necessary brackets,supports,				

	saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				4210.61
	Total of (A1+A2)				32281.37
4015	A(3) Basic Price of Insulation - 32 mm nitrile rubber	sqm	9.429	658.35	6207.58
	add for wastage@10%				620.76
	Total of A(3)				6828.34
3023	A(4) Pipe aluminium Cladding	sqm	0	300.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				39109.71
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				391.10
	Total of A				39500.80
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	3	447.00	1341.00
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.75	361.00	270.75
1007	Helper	day	4.75	368.00	1748.00
	Total of B(1)				3806.75
	B(2) For Insulation works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B(2)				815.00
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				4621.75
	Total A+B				44122.55
	C Overhead and Profits @ 15% of (A+B)				6618.38
	Total				50740.94
	Rate for 1 meter				5074.09
	TOTAL				5074.09
	Say				5074.00

16.2.4 Chilled water piping of nominal size - 250mm dia. (32mm thick nitrile rubber insulation)

COST FOR10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3004	A(1) Basic Price M.S. Pipe - 250 mm dia.	meter	10	2249.10	22491.00
	add for wastage@5%				1124.55

	Total of (A1)				23615.55
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				3542.33
	Total of (A1+A2)				27157.88
4015	A(3) Basic Price of Insulation - 32 mm nitrile rubber	sqm	9.426	658.35	6205.61
	add for wastage@10%				620.56
	Total of A(3)				6826.17
3023	A(4) Pipe aluminium Cladding	sqm	0	300.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				33984.05
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				339.84
	Total of A				34323.89
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2.5	447.00	1117.50
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	4	368.00	1472.00
	Total of B(1)				3240.00
	B(2) For Insulation works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B(2)				611.25
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				3851.25
	Total A+B				38175.14
	C Overhead and Profits @ 15% of (A+B)				5726.27
	Total				43901.41
	Rate for 1 meter				4390.14
	TOTAL				4390.14
	Say				4390.00

16.2.5 Chilled water piping of nominal size - 200mm dia. (32mm thick nitrile rubber)**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia.	meter	10	1792.67	17926.65

	add for wastage@5%				896.33
	Total of (A1)				18822.98
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				2823.45
	Total of (A1+A2)				21646.43
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber	sqm	6.5	658.35	4279.28
	add for wastage@10%				427.93
	Total of A(3)				4707.20
3023	A(4) Pipe aluminium Cladding	sqm	0	300.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				26353.63
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				263.54
	Total of A				26617.17
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2.5	447.00	1117.50
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	4	368.00	1472.00
	Total of B(1)				3240.00
	B(2) For Insulation works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B(2)				611.25
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				3851.25
	Total A+B				30468.42
	C Overhead and Profits @ 15% of (A+B)				4570.26
	Total				35038.68
	Rate for 1 meter				3503.87
	TOTAL				3503.87
	Say				3504.00

16.2.6 Chilled water piping of nominal size - 150mm dia. (32mm thick nitrile rubber)
COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3006	A(1) Basic Price M.S. Pipe - 150 mm dia. add for wastage@5%	meter	10	1138.54	11385.36 569.27
Total of (A1)					11954.63
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1793.19
Total of (A1+A2)					13747.82
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber add for wastage@10%	sqm	4.75	658.35	3127.16 312.72
Total of A(3)					3439.88
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	0	300.00	0.00 0.00
Total of A(4)					0.00
Total of (A(1)+A(2)+A(3)+A(4))					17187.70
	Add for cartage etc. @ 1% of (A(1)+A(2) +A(3)+A(4))				171.88
Total of A					17359.58
B(LABOUR)					
B(1) For Piping work					
1004	Fitter	day	2.5	447.00	1117.50
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	4	368.00	1472.00
Total of B(1)					3240.00
B(2) For Insulation works					
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
Total of B(2)					611.25
For Cladding works					
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
Total of B (3)					0.00
Total of B					3851.25
Total A+B					21210.83
C Overhead and Profits @ 15% of (A+B)					3181.62
Total					24392.45
Rate for 1 meter					2439.25
TOTAL					2439.25
Say					2439.00

16.2.7 Chilled water piping of nominal size - 125mm dia. (32mm thick nitrile rubber insulation)**COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3007	A(1) Basic Price M.S. Pipe - 125 mm dia. add for wastage@5%	meter	10	958.28	9582.77 479.14
	Total of (A1)				10061.91
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1509.29
	Total of (A1+A2)				11571.20
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber add for wastage@10%	sqm	4.5	658.35	2962.58 296.26
	Total of A(3)				3258.83
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	0	300.00	0.00 0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				14830.03
	Add for cartage etc. @ 1% of (A(1)+A(2) +A(3)+A(4))				148.30
	Total of A				14978.33
B(LABOUR)					
B(1) For Piping work					
1004	Fitter	day	2.5	447.00	1117.50
1087	Welder	day	0.75	447.00	335.25
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	3.75	368.00	1380.00
	Total of B(1)				3036.25
B(2) For Insulation works					
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B(2)				611.25
For Cladding works					
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				3647.50
	Total A+B				18625.83
	C Overhead and Profits @ 15% of (A+B)				2793.87
	Total				21419.71
	Rate for 1 meter				2141.97
	TOTAL				2141.97
	Say				2142.00

16.2.8 Chilled water piping of nominal size - 100mm dia. (32mm thick nitrile rubber insulation)**COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia. add for wastage@5%	meter	10	776.98	7769.79 388.49
	Total of (A1)				8158.28
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1223.74
	Total of (A1+A2)				9382.02
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber add for wastage@10%	sqm	3.5	658.35	2304.23 230.42
	Total of A(3)				2534.65
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	0	300.00	0.00 0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				11916.67
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				119.17
	Total of A				12035.84
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00
1087	Welder	day	0.75	447.00	335.25
1006	Painter	day	0.25	328.00	82.00
1007	Helper	day	3	368.00	1104.00
	Total of B(1)				2415.25
	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				2822.75
	Total A+B				14858.59
	C Overhead and Profits @ 15% of (A+B)				2228.79
	Total				17087.37
	Rate for 1 meter				1708.74
	TOTAL				1708.74
	Say				1709.00

**16.2.9 Chilled water piping of nominal size - 80mm dia. (32mm thick nitrile rubber insulation)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3009	A(1) Basic Price M.S. Pipe - 80 mm dia. add for wastage@5%	meter	10	527.40	5274.05 263.70
	Total of (A1)				5537.75
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				830.66
	Total of (A1+A2)				6368.41
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber add for wastage@10%	sqm	2.514	658.35	1654.83 165.48
	Total of A(3)				1820.31
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	0	300.00	0.00 0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				8188.72
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				81.89
	Total of A				8270.61
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00
1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.75	368.00	1012.00
	Total of B(1)				2231.25
	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				2638.75
	Total A+B				10909.36
	C Overhead and Profits @ 15% of (A+B)				1636.40
	Total				12545.76
	Rate for 1 meter				1254.58
	TOTAL				1254.58
	Say				1255.00

**16.2.10 Chilled water piping of nominal size - 65mm dia. (32mm thick nitrile rubber insulation)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3010	A(1) Basic Price M.S. Pipe - 65 mm dia. add for wastage @ 5%	meter	10	435.46	4354.56 217.73
	Total of (A1)				4572.29
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				685.84
	Total of (A1+A2)				5258.13
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber add for wastage @ 10%	sqm	2.042	658.35	1344.55 134.45
	Total of A(3)				1479.00
3023	A(4) Pipe aluminium Cladding add for wastage @ 10%	sqm	0	300.00	0.00 0.00
	Total of A(4)				0.00
	Total of (A1)+A(2)+A(3)+A(4)				6737.13
	Add for cartage etc. @ 1% of (A(1)+A(2) +A(3)+A(4))				67.37
	Total of A				6804.51
B(LABOUR)					
B(1) For Piping work					
1004	Fitter	day	1.5	447.00	670.50
1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.25	368.00	828.00
	Total of B(1)				1823.75
B(2) For Insulation works					
1004	Fitter	day	0.4	447.00	178.80
1007	Helper	day	0.4	368.00	147.20
	Total of B(2)				326.00
For Cladding works					
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				2149.75
	Total A+B				8954.26
	C Overhead and Profits @ 15% of (A+B)				1343.14
	Total				10297.39
	Rate for 1 meter				1029.74
	TOTAL				1029.74
	Say				1030.00

**16.2.11 Chilled water piping of nominal size - 50mm dia. (32mm thick fiber glass insulation)
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3011	A(1) Basic Price M.S. Pipe - 50 mm dia. add for wastage@5%	meter	10	332.26	3322.62 166.13
	Total of (A1)				3488.75
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				523.31
	Total of (A1+A2)				4012.06
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber add for wastage@10%	sqm	2	658.35	1316.70 131.67
	Total of A(3)				1448.37
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	0	300.00	0.00 0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				5460.43
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				54.60
	Total of A				5515.04
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	1.5	447.00	670.50
1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.25	368.00	828.00
	Total of B(1)				1823.75
	B(2) For Insulation works				
1004	Fitter	day	0.4	447.00	178.80
1007	Helper	day	0.4	368.00	147.20
	Total of B(2)				326.00
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				2149.75
	Total A+B				7664.79
	C Overhead and Profits @ 15% of (A+B)				1149.72
	Total				8814.51
	Rate for 1 meter				881.45
	TOTAL				881.45
	Say				881.00

**16.2.12 Chilled water piping of nominal size - 40mm dia. (32mm thick nitrile rubber insulation)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3012	A(1) Basic Price M.S. Pipe - 40 mm dia. add for wastage@5%	meter	10	234.64	2346.44 117.32
	Total of (A1)				2463.76
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				369.56
	Total of (A1+A2)				2833.32
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber add for wastage@10%	sqm	1.5	658.35	987.53 98.75
	Total of A(3)				1086.28
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	0	300.00	0.00 0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				3919.60
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				39.20
	Total of A				3958.79
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	1.5	447.00	670.50
1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.25	368.00	828.00
	Total of B(1)				1823.75
	B(2) For Insulation works				
1004	Fitter	day	0.4	447.00	178.80
1007	Helper	day	0.4	368.00	147.20
	Total of B(2)				326.00
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (3)				0.00
	Total of B				2149.75
	Total A+B				6108.54
	C Overhead and Profits @ 15% of (A+B)				916.28
	Total				7024.83
	Rate for 1 meter				702.48
	TOTAL				702.48
	Say				702.00

16.2.13 Chilled water piping of nominal size - 32mm dia. (19mm thick nitrile rubber insulation)
COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3013	A(1) Basic Price M.S. Pipe - 32 mm dia. add for wastage@5%	meter	10	201.71	2017.10 100.86
Total of (A1)					2117.96
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				317.69
Total of (A1+A2)					2435.65
4016	A(3) Basic Price of Insulation - 19 mm thick nitrile rubber add for wastage@10%	sqm	1.2	371.80	446.16 44.62
Total of A(3)					490.78
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	0	300.00	0.00 0.00
Total of A(4)					0.00
Total of (A(1)+A(2)+A(3)+A(4))					2926.43
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				29.26
Total of A					2955.69
B(LABOUR)					
B(1) For Piping work					
1004	Fitter	day	1.5	447.00	670.50
1087	Welder	day	0.25	447.00	111.75
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2	368.00	736.00
Total of B(1)					1620.00
B(2) For Insulation works					
1004	Fitter	day	0.4	447.00	178.80
1007	Helper	day	0.4	368.00	147.20
Total of B(2)					326.00
For Cladding works					
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
Total of B (3)					0.00
Total of B					1946.00
Total A+B					4901.69
	C Overhead and Profits @ 15% of (A+B)				735.25
Total					5636.95
Rate for 1 meter					563.69
Say					564.00

**16.2.14 Chilled water piping of nominal size - 25mm dia. (19mm thick nitrile rubber insulation)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3014	A(1) Basic Price M.S. Pipe - 25 mm dia. add for wastage@5%	meter	10	156.59	1565.87 78.29
Total of (A1)					1644.16
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				246.62
Total of (A1+A2)					1890.78
4016	A(3) Basic Price of Insulation - 19 mm thick nitrile rubber add for wastage@10%	sqm	0.9	371.80	334.62 33.46
Total of A(3)					368.08
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	0	300.00	0.00 0.00
Total of A(4)					0.00
Total of (A(1)+A(2)+A(3)+A(4))					2258.86
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				22.59
Total of A					2281.45
B(LABOUR)					
B(1) For Piping work					
1004	Fitter	day	1.25	447.00	558.75
1087	Welder	day	0.25	447.00	111.75
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	1.75	368.00	644.00
Total of B(1)					1416.25
B(2) For Insulation works					
1004	Fitter	day	0.4	447.00	178.80
1007	Helper	day	0.4	368.00	147.20
Total of B(2)					326.00
For Cladding works					
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
Total of B (3)					0.00
Total of B					1742.25
Total A+B					4023.70
C Overhead and Profits @ 15% of (A+B)					603.56
Total					4627.26
Rate for 1 meter					462.73
Say					463.00

16.3 Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping plumbing inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with fire retardant quality expanded polystyrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying 0.63mm aluminium sheet cladding complete with type3, grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints repairing of damage to building etc. as per specifications and as required complete in all respect.

Note:-The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

**16.3.1 Chilled water piping of nominal size - 400mm dia. (75mm thick expanded polystyrene)
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3001	A(1) Basic Price M.S. Pipe - 400 mm dia. add for wastage@5%	meter	10	5040.63	50406.30 2520.32
	Total of (A1)				52926.62
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				7938.99
	Total of (A1+A2)				60865.61
4017	A(3) Basic Price of Insulation - 75 mm add for wastage@10%	meter	10	852.64	8526.36 852.64
	TOTAL 3				9378.99
	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	17.28	300.00	5184.30 518.43
	Total of A(4)				5702.73
	Total of (A(1)+A(2)+A(3)+A(4))				75947.33
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				759.47
	Total of A				76706.80
B(LABOUR)					
B(1) For Piping work					
1004	Fitter	day	3	447.00	1341.00
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.75	407.00	305.25
1007	Helper	day	4.75	368.00	1748.00
	Total of B(1)				3841.25
B(2) For Insulation works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00

	Total of B(2)				1018.75
	For Cladding works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B (3)				1018.75
	Total of B				5878.75
	Total A+B				82585.55
	C Overhead and Profits @ 15% of (A+B)				12387.83
	Total				94973.39
	Rate for 1 meter				9497.34
	TOTAL				9497.34
	Say				9497.00

16.3.2 Chilled water piping of nominal size - 350mm dia. (75mm thick expanded polysterene) COST FOR10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3002	A(1) Basic Price M.S. Pipe - 350 mm dia. add for wastage@5%	meter	10	2955.02	29550.15 1477.51
	Total of (A1)				31027.66
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				4654.15
	Total of (A1+A2)				35681.81
4018	A(3) Basic Price of Insulation - 75 mm add for wastage@10%	meter	10	744.66	7446.60 744.66
	Total A(3)				8191.26
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	15.71	300.00	4713.00 471.30
	Total of A(4)				5184.30
	Total of (A(1)+A(2)+A(3)+A(4))				49057.37
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				490.57
	Total of A				49547.94
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	3	447.00	1341.00
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.75	407.00	305.25
1007	Helper	day	4.75	368.00	1748.00
	Total of B(1)				3841.25
	B(2) For Insulation works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00

	Total of B(2)				1018.75
	For Cladding works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B (3)				1018.75
	Total of B				5878.75
	Total A+B				55426.69
	C Overhead and Profits @ 15% of (A+B)				8314.00
	Total				63740.69
	Rate for 1 meter				6374.07
	TOTAL				6374.07
	Say				6374.00

16.3.3 Chilled water piping of nominal size - 300mm dia. (75mm thick expanded polysterene) COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3003	A(1) Basic Price M.S. Pipe - 300 mm dia. add for wastage@5%	meter	10	2673.41	26734.05 1336.70
	Total of (A1)				28070.75
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				4210.61
	Total of (A1+A2)				32281.37
4019	A(3) Basic Price of Insulation - 75 mm add for wastage@10%	meter	10	659.02	6590.24 659.02
	Total 3A				7249.27
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	14.14	300.00	4241.70 424.17
	Total of A(4)				4665.87
	Total of (A(1)+A(2)+A(3)+A(4))				44196.50
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				441.97
	Total of A				44638.47
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	3	447.00	1341.00
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.75	407.00	305.25
1007	Helper	day	4.75	368.00	1748.00
	Total of B(1)				3841.25
	B(2) For Insulation works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00

	Total of B(2)				1018.75
	For Cladding works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B (3)				1018.75
	Total of B				5878.75
	Total A+B				50517.22
	C Overhead and Profits @ 15% of (A+B)				7577.58
	Total				58094.80
	Rate for 1 meter				5809.48
	TOTAL				5809.48
	Say				5809.00

16.3.4 Chilled water piping of nominal size - 250mm dia. (75mm thick expanded polysterene) COST FOR10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3004	A(1) Basic Price M.S. Pipe - 250 mm dia. add for wastage@5%	meter	10	2249.10	22491.00 1124.55
	Total of (A1)				23615.55
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				3542.33
	Total of (A1+A2)				27157.88
4020	A(3) Basic Price of Insulation - 75 mm add for wastage@10%	meter	10	572.46	5724.57 572.46
	Total 3A				6297.03
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	12.57	300.00	3770.40 377.04
	Total of A(4)				4147.44
	Total of (A(1)+A(2)+A(3)+A(4))				37602.35
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				376.02
	Total of A				37978.38
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2.5	447.00	1117.50
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.5	328.00	164.00
1007	Helper	day	4	368.00	1472.00
	Total of B(1)				3200.50
	B(2) For Insulation works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00

	Total of B(2)				815.00
	For Cladding works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B (3)				815.00
	Total of B				4830.50
	Total A+B				42808.88
	C Overhead and Profits @ 15% of (A+B)				6421.33
	Total				49230.21
	Rate for 1 meter				4923.02
	TOTAL				4923.02
	Say				4923.00

16.3.5 Chilled water piping of nominal size - 200mm dia. (75mm thick expanded polysterene) COST FOR10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia. add for wastage@5%	meter	10	1792.67	17926.65 896.33
	Total of (A1)				18822.98
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				2823.45
	Total of (A1+A2)				21646.43
4021	A(3) Basic Price of Insulation - 75 mm add for wastage@10%	meter	10	488.68	4886.83 488.68
	Total of A(3)				5375.51
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	11	300.00	3299.10 329.91
	Total of A(4)				3629.01
	Total of (A(1)+A(2)+A(3)+A(4))				30650.95
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				306.51
	Total of A				30957.46
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2.5	447.00	1117.50
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	4	368.00	1472.00
	Total of B(1)				3240.00
	B(2) For Insulation works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00

	Total of B(2)				815.00
	For Cladding works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B (3)				815.00
	Total of B				4870.00
	Total A+B				35827.46
	C Overhead and Profits @ 15% of (A+B)				5374.12
	Total				41201.58
	Rate for 1 meter				4120.16
	TOTAL				4120.16
	Say				4120.00

**16.3.6 Chilled water piping of nominal size - 150mm dia. (50mm thick expanded polysterene)
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3006	A(1) Basic Price M.S. Pipe - 150 mm dia. add for wastage@5%	meter	10	1138.54	11385.36 569.27
	Total of (A1)				11954.63
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1793.19
	Total of (A1+A2)				13747.82
4022	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	241.08	2410.84 241.08
	Total A(3)				2651.92
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	9.426	300.00	2827.80 282.78
	Total of A(4)				3110.58
	Total of (A(1)+A(2)+A(3)+A(4))				19510.32
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				195.10
	Total of A				19705.43
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00
1087	Welder	day	1	447.00	447.00
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	3.5	368.00	1288.00
	Total of B(1)				2832.50
	B(2) For Insulation works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00

	Total of B(2)				815.00
	For Cladding works				
1004	Fitter	day	1	447.00	447.00
1007	Helper	day	1	368.00	368.00
	Total of B (3)				815.00
	Total of B				4462.50
	Total A+B				24167.93
	C Overhead and Profits @ 15% of (A+B)				3625.19
	Total				27793.11
	Rate for 1 meter				2779.31
	TOTAL				2779.31
	Say				2779.00

**16.3.7 Chilled water piping of nominal size - 125mm dia. (50mm thick expanded polysterene)
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3007	A(1) Basic Price M.S. Pipe - 125 mm dia. add for wastage@5%	meter	10	958.28	9582.77 479.14
	Total of (A1)				10061.91
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1509.29
	Total of (A1+A2)				11571.20
4023	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	213.16	2131.59 213.16
	Total A(3)				2344.75
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	7.07	300.00	2120.85 212.09
	Total of A(4)				2332.94
	Total of (A(1)+A(2)+A(3)+A(4))				16248.88
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				162.49
	Total of A				16411.37
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00
1087	Welder	day	0.75	447.00	335.25
1006	Painter	day	0.5	407.00	203.50
1007	Helper	day	3.25	368.00	1196.00
	Total of B(1)				2628.75
	B(2) For Insulation works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00

	Total of B(2)				611.25
	For Cladding works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B (3)				611.25
	Total of B				3851.25
	Total A+B				20262.62
	C Overhead and Profits @ 15% of (A+B)				3039.39
	Total				23302.01
	Rate for 1 meter				2330.20
	TOTAL				2330.20
	Say				2330.00

16.3.8 Chilled water piping of nominal size - 100mm dia. (50mm thick expanded polysterene) COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia. add for wastage@5%	meter	10	776.98	7769.79 388.49
	Total of (A1)				8158.28
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1223.74
	Total of (A1+A2)				9382.02
4024	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	179.65	1796.49 179.65
	Total A (3)				1976.14
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	6.284	300.00	1885.20 188.52
	Total of A(4)				2073.72
	Total of (A(1)+A(2)+A(3)+A(4))				13431.88
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				134.32
	Total of A				13566.20
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00
1087	Welder	day	0.75	447.00	335.25
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	3	368.00	1104.00
	Total of B(1)				2435.00
	B(2) For Insulation works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00

	Total of B(2)				611.25
	For Cladding works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B (3)				611.25
	Total of B				3657.50
	Total A+B				17223.70
	C Overhead and Profits @ 15% of (A+B)				2583.56
	Total				19807.26
	Rate for 1 meter				1980.73
	TOTAL				1980.73
	Say				1981.00

**16.3.9 Chilled water piping of nominal size - 80mm dia. (50mm thick expanded polysterene)
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3009	A(1) Basic Price M.S. Pipe - 80 mm dia. add for wastage@5%	meter	10	527.40	5274.05 263.70
	Total of (A1)				5537.75
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				830.66
	Total of (A1+A2)				6368.41
4025	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	157.31	1573.09 157.31
	Total A (3)				1730.40
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	5.656	300.00	1696.68 169.67
	Total of A(4)				1866.35
	Total of (A(1)+A(2)+A(3)+A(4))				9965.16
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				99.65
	Total of A				10064.81
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00
1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.75	368.00	1012.00
	Total of B(1)				2231.25
	B(2) For Insulation works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00

	Total of B(2)				611.25
	For Cladding works				
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B (3)				611.25
	Total of B				3453.75
	Total A+B				13518.56
	C Overhead and Profits @ 15% of (A+B)				2027.78
	Total				15546.35
	Rate for 1 meter				1554.63
	TOTAL				1554.63
	Say				1555.00

16.3.10 Chilled water piping of nominal size - 65mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3010	A(1) Basic Price M.S. Pipe - 65 mm dia. add for wastage@5%	meter	10	435.46	4354.56 217.73
	Total of (A1)				4572.29
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				685.84
	Total of (A1+A2)				5258.13
4026	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	143.35	1433.47 143.35 1576.82
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	5.184	300.00	1555.29 155.53
	Total of A(4)				1710.82
	Total of (A(1)+A(2)+A(3)+A(4))				8545.77
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				85.46
	Total of A				8631.23
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	2	447.00	894.00
1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.75	368.00	1012.00
	Total of B(1)				2231.25
	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50

1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B (3)				407.50
	Total of B				3046.25
	Total A+B				11677.48
	C Overhead and Profits @ 15% of (A+B)				1751.62
	Total				13429.10
	Rate for 1 meter				1342.91
	TOTAL				1342.91
	Say				1343.00

16.3.11 Chilled water piping of nominal size - 50mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3011	A(1) Basic Price M.S. Pipe - 50 mm dia. add for wastage @ 5%	meter	10	332.26	3322.62 166.13
	Total of (A1)				3488.75
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				523.31
	Total of (A1+A2)				4012.06
4027	A(3) Basic Price of Insulation - 50 mm add for wastage @ 10%	meter	10	124.73	1247.31 124.73
	Total A(3)				1372.04
3023	A(4) Pipe aluminium Cladding add for wastage @ 10%	sqm	4.713	300.00	1413.90 141.39
	Total of A(4)				1555.29
	Total of (A(1)+A(2)+A(3)+A(4))				6939.39
	Add for cartage etc. @ 1% of (A(1)+A(2) +A(3)+A(4))				69.39
	Total of A				7008.78
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	1.5	447.00	670.50
1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.25	368.00	828.00
	Total of B(1)				1823.75

	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B (3)				407.50
	Total of B				2638.75
	Total A+B				9647.53
	C Overhead and Profits @ 15% of (A+B)				1447.13
	Total				11094.66
	Rate for 1 meter				1109.47
	TOTAL				1109.47
	Say				1109.00

**16.3.12 Chilled water piping of nominal size - 40mm dia. (50mm thick expanded polysterene)
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3012	A(1) Basic Price M.S. Pipe - 40 mm dia. add for wastage@5%	meter	10	234.64	2346.44 117.32
	Total of (A1)				2463.76
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				369.56
	Total of (A1+A2)				2833.32
4028	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	111.70	1116.99 111.70
	Total A(3)				1228.69
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	4.399	300.00	1319.64 131.96
	Total of A(4)				1451.60
	Total of (A(1)+A(2)+A(3)+A(4))				5513.61
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				55.14
	Total of A				5568.75
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	1.5	447.00	670.50
1087	Welder	day	0.5	447.00	223.50
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	2.25	368.00	828.00

	Total of B(1)				1823.75
	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B (3)				407.50
	Total of B				2638.75
	Total A+B				8207.50
	C Overhead and Profits @ 15% of (A+B)				1231.12
	Total				9438.62
	Rate for 1 meter				943.86
	TOTAL				943.86
	Say				944.00

**16.3.13 Chilled water piping of nominal size - 32mm dia. (50mm thick expanded polysterene)
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3013	A(1) Basic Price M.S. Pipe - 32 mm dia. add for wastage@5%	meter	10	201.71	2017.10 100.86
	Total of (A1)				2117.96
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				317.69
	Total of (A1+A2)				2435.65
4029	A(3) Basic Price of Insulation - 50 mm add for wastage@10%	meter	10	106.11	1061.14 106.11
	Total A (3)				1167.25
3023	A(4) Pipe aluminium Cladding add for wastage@10%	sqm	4.147	300.00	1244.23 124.42
	Total of A(4)				1368.66
	Total of (A(1)+A(2)+A(3)+A(4))				4971.56
	Add for cartage etc. @ 1%of (A(1)+A(2) +A(3)+A(4))				49.72
	Total of A				5021.28
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	1.25	447.00	558.75
1087	Welder	day	0.25	447.00	111.75
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	1.75	368.00	644.00

	Total of B(1)				1416.25
	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B (3)				407.50
	Total of B				2231.25
	Total A+B				7252.53
	C Overhead and Profits @ 15% of (A+B)				1087.88
	Total				8340.41
	Rate for 1 meter				834.04
	TOTAL				834.04
	Say				834.00

**16.3.14 Chilled water piping of nominal size - 25mm dia. (50mm thick expanded polysterene)
COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3014	A(1) Basic Price M.S. Pipe - 25 mm dia. add for wastage @ 5%	meter	10	156.59	1565.87 78.29
	Total of (A1)				1644.16
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				246.62
	Total of (A1+A2)				1890.78
4030	A(3) Basic Price of Insulation - 50 mm add for wastage @ 10%	meter	10	95.87	958.75 95.87
	Total of A(3)				1054.62
3023	A(4) Pipe aluminium Cladding add for wastage @ 10%	sqm	3.928	300.00	1178.25 117.83
	Total of A(4)				1296.08
	Total of (A(1)+A(2)+A(3)+A(4))				4241.48
	Add for cartage etc. @ 1% of (A(1)+A(2) +A(3)+A(4))				42.41
	Total of A				4283.90
	B(LABOUR)				
	B(1) For Piping work				
1004	Fitter	day	1.25	447.00	558.75
1087	Welder	day	0.25	447.00	111.75
1006	Painter	day	0.25	407.00	101.75
1007	Helper	day	1.75	368.00	644.00

	Total of B(1)				1416.25
	B(2) For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B(2)				407.50
	For Cladding works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B (3)				407.50
	Total of B				2231.25
	Total A+B				6515.15
	C Overhead and Profits @ 15% of (A+B)				977.27
	Total				7492.42
	Rate for 1 meter				749.24
	TOTAL				749.24
	Say				749.00

16.4 Supplying, laying/ fixing, testing and commissioning of following thickness resin bonded fiber glass pipe section insulation having density 80 kg/cum or mineral wool (non combustible) having density of 144 Kg/ cu m duly covered with a layer of 120 gm/sqm polythene sheet (vapour barrier) on existing pipe and finally applying 0.63mm aluminium sheet cladding complete with type3, grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints etc. as per specifications and as required.

**16.4.1 insulation of thickness 75mm on existing pipe
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
4031	A(1) Basic Price of Insulation - 75 mm	sqm	10	1111.87	11118.70
	add for wastage@10%				1111.87
	Total of A1				12230.57
3023	A(2) Pipe aluminium Cladding	sqm	10	300.00	3000.00
	add for wastage@10%				300.00
	Total of A(2)				3300.00
	Total of (A(1)+A(2))				15530.57
	Add for cartage etc. @ 1%of (A(1)+A(2))				155.31
	Total of A				15685.87
	B(LABOUR)				
	B(1) For Insulation works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B(1)				1018.75
	For Cladding works				
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00

Total of B (2)	1018.75
Total of B	2037.50
Total A+B	17723.37
C Overhead and Profits @ 15% of (A+B)	2658.51
Total	20381.88
Rate for 1 sqmeter	2038.19
TOTAL	2038.19
Say	2038.00

16.4.2 insulation of thickness 65 mm on existing pipe**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3201	A(1) Basic Price of Insulation - 65 mm	sqm	10	1052.74	10527.40
	add for wastage@10%				1052.74
	Total of A1				11580.14
3023	A(2) Pipe aluminium Cladding	sqm	10	300.00	3000.00
	add for wastage@10%				300.00
	Total of A(2)				3300.00
	Total of (A(1)+A(2))				14880.14
	Add for cartage etc. @ 1%of (A(1)+A(2))				148.80
	Total of A				15028.94
B(LABOUR)					
B(1) For Insulation works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B(1)				1018.75
For Cladding works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B (2)				1018.75
	Total of B				2037.50
	Total A+B				17066.44
	C Overhead and Profits @ 15% of (A+B)				2559.97
	Total				19626.41
	Rate for 1 sqmeter				1962.64
	TOTAL				1962.64
	Say				1963.00

16.4.3 insulation of thickness 50mm on existing pipe**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
4032	A(1) Basic Price of Insulation - 50 mm	sqm	10	912.63	9126.33
	add for wastage@10%				912.63
	Total of A(1)				10038.96
3023	A(2) Pipe aluminium Cladding	sqm	10	300.00	3000.00
	add for wastage@10%				300.00
	Total of A(2)				3300.00
	Total of (A(1)+A(2))				13338.96
	Add for cartage etc. @ 1%of (A(1)+A(2))				133.39
	Total of A				13472.35
B(LABOUR)					
B(1) For Insulation works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B(1)				1018.75
For Cladding works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
	Total of B (2)				1018.75
	Total of B				2037.50
	Total A+B				15509.85
	C Overhead and Profits @ 15% of (A+B)				2326.48
	Total				17836.33
	Rate for 1 sqmeter				1783.63
	TOTAL				1783.63
	Say				1784.00

16.4.4 insulation of thickness 40mm on existing pipe**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
4033	A(1) Basic Price of Insulation - 40 mm	sqm	10	835.51	8355.09
	Add wastage @ 10%				835.51
	Total of A(1)				9190.60
3023	A(2) Pipe aluminium Cladding	sqm	10	300.00	3000.00
	Add wastage @ 10%				300.00
	Total of A(2)				3300.00
	Total of (A(1)+A(2))				12490.60
	Add for cartage etc. @ 1%of (A(1)+A(2))				124.91
	Total of A				12615.50

B(LABOUR)					
B(1) For Insulation works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B(1)					1018.75
For Cladding works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B (2)					1018.75
Total of B					2037.50
Total A+B					14653.00
C Overhead and Profits @ 15% of (A+B)					2197.95
Total					16850.96
Rate for 1 sqmeter					1685.10
TOTAL					1685.10
Say					1685.00

16.4.5 insulation of thickness 25mm on existing pipe**COST FOR 10 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(MATERIALS)					
4034	A(1) Basic Price of Insulation - 25 mm	sqm	10	642.70	6426.99
	Add wastage @ 10%				642.70
Total of A(1)					7069.69
3023	A(2) Pipe aluminium Cladding	sqm	10	300.00	3000.00
	Add wastage @ 10%				300.00
Total of A(2)					3300.00
Total of (A(1)+A(2))					10369.69
Add for cartage etc. @ 1%of (A(1)+A(2))					103.70
Total of A					10473.39
B(LABOUR)					
B(1) For Insulation works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B(1)					1018.75
For Cladding works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B (2)					1018.75
Total of B					2037.50
Total A+B					12510.89
C Overhead and Profits @ 15% of (A+B)					1876.63
Total					14387.52

Rate for 1 sqmeter	1438.75
TOTAL	1438.75
Say	1439.00

16.5 Supplying, laying,fixing, testing and commissioning of following thickness closed cell elastometric nitrile rubber of class 'O' applied by adhesive confirming to standard specifications, as per specifications and as required complete in all respect.

16.5.1 Insulation with nitrile rubber of thickness 32mm on existing pipe

COST FOR10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
4015	A(1) Basic Price of Insulation - 32 mm thick nitrile rubber	sqm	10	658.35	6583.50
	Add wastagee @ 10%				658.35
	Total of A(1)				7241.85
3023	A(4) Pipe aluminium Cladding	sqm	0	300.00	0.00
	Add wastagee @ 10%				0.00
	Total of A(2)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				7241.85
	Add for cartage etc. @ 1%of (A(1)+A(2))				72.42
	Total of A				7314.27
B(LABOUR)					
B(1) For Insulation works					
1004	Fitter	day	0.75	447.00	335.25
1007	Helper	day	0.75	368.00	276.00
	Total of B(1)				611.25
For Cladding works					
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (2)				0.00
	Total of B				611.25
	Total A+B				7925.52
	C Overhead and Profits @ 15% of (A+B)				1188.83
	Total				9114.35
	Rate for 1 sq meter				911.43
	TOTAL				911.43
	Say				911.00

16.5.2 Insulation with nitrile rubber of thickness 19mm on existing pipe

COST FOR10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
4016	A(3) Basic Price of Insulation - 19 mm thick nitrile rubber	sqm	10	371.80	3718.00

	Add wastagee @ 10%				371.80
	Total of A(1)				4089.80
3023	A(2) Pipe aluminium Cladding	sqm	0	300.00	0.00
	Add wastagee @ 10%				0.00
	Total of A(2)				0.00
	Total of (A(1)+A(2))				4089.80
	Add for cartage etc. @ 1%of (A(1)+A(2))				40.90
	Total of A				4130.70
	B(LABOUR)				
	B(1) For Insulation works				
1004	Fitter	day	0.65	447.00	290.55
1007	Helper	day	0.65	368.00	239.20
	Total of B(1)				529.75
	For Cladding works				
1004	Fitter	day	0	447.00	0.00
1007	Helper	day	0	368.00	0.00
	Total of B (2)				0.00
	Total of B				529.75
	Total A+B				4660.45
	C Overhead and Profits @ 15% of (A+B)				699.07
	Total				5359.52
	Rate for 1 meter				535.95
	TOTAL				535.95
	Say				536.00

16.6 Supplying, laying/ fixing, testing and commissioning of following thickness insulation with fire retardant quality expanded polystyrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying 0.63mm aluminium sheet cladding complete with type3, grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints repairing etc. as per specifications and as required complete in all respect.

16.6.1 Insulation with Expanded polystyrene of thickness 75mm on existing pipe

COST FOR10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
4037	A(1) Basic Price of Insulation - 75 mm	sqm	10	699.98	6999.80
	Add wastagee @ 10%				699.98
	Total of A(1)				7699.78
3023	A(2) Pipe aluminium Cladding	sqm	10	300.00	3000.00
	Add wastagee @ 10%				300.00
	Total of A(2)				3300.00
	Total of (A(1)+A(2))				10999.78
	Add for cartage etc. @ 1%of (A(1)+A(2))				110.00
	Total of A				11109.78

B(LABOUR)					
B(1) For Insulation works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B(1)					1018.75
For Cladding works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B (2)					1018.75
Total of B					2037.50
Total A+B					13147.28
C Overhead and Profits @ 15% of (A+B)					1972.09
Total					15119.37
Rate for 1 sq meter					1511.94
TOTAL					1511.94
Say					1512.00

**16.6.2 Insulation with Expanded polystyrene of thickness 50mm on existing pipe
COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
4038	A(1) Basic Price of Insulation - 50 mm	meter	10	446.80	4467.96
	Add wastagee @ 10%				446.80
Total of A(2)					4467.96
3023	A(2) Pipe aluminium Cladding	sqm	10	300.00	3000.00
	Add wastagee @ 10%				300.00
Total of A(2)					3300.00
Total of (A(1)+A(2))					7767.96
Add for cartage etc. @ 1%of (A(1)+A(2))					77.68
Total of A					7845.64
B(LABOUR)					
B(1) For Insulation works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B(1)					1018.75
For Cladding works					
1004	Fitter	day	1.25	447.00	558.75
1007	Helper	day	1.25	368.00	460.00
Total of B (2)					1018.75
Total of B					2037.50
Total A+B					9883.14
C Overhead and Profits @ 15% of (A+B)					1482.47
Total					11365.61

Rate for 1 meter	1136.56
TOTAL	1136.56
Say	1137.00

16.7 Supplying, fixing, testing and commissioning of following valves, strainers, gauges in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications.

16.7.1 BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified

16.7.1.1 BUTTERFLY VALVE (MANUAL) 200 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3024	Basic Price (Valve) - 200 mm dia.	Each	1	8330.00	8330.00
	Total (A)				8330.00
B INSULATION					
4021	Basic Price of Insulation	meter	0.3	488.68	146.60
	Add wastage @ 10%				14.66
	Add Valve Cladding	sqm	0.3	300	90.0
3023	Add wastage @ 10%				9.00
	Total (B)				260.27
	Total (A+B)				8590.27
	Add for Cartage etc. @ 1% on A+B				85.90
	TOTAL				8676.17
'C' LABOUR					
For fixing					
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.2	447.00	89.40
1007	Helper	day	0.7	368.00	257.60
For Insulation					
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
For Cladding					
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
	Total of C				978.00
	Total of A+B+C				9654.17
	Overhead and Profits @ 15%				1448.13
	Grand Total				11102.29
	Say				11102.00

16.7.1.2 BUTTERFLY VALVE (MANUAL)**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3025	Basic Price (Valve) - 150 mm dia.	Each	1	4536.00	4536.00
Total (A)					4536.00
B INSULATION					
4022	Basic Price of Insulation	meter	0.3	241.08	72.33
	Add wastage @ 10%				7.23
	Add Valve Cladding	sqm	0.24	300	72.00
3023	Add wastage @ 10%				7.20
Total (B)					158.76
Total (A+B)					4694.76
	Add for Cartage etc. @ 1% on A+B				46.95
Total					4741.71
'C' LABOUR					
For fixing					
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.25	447.00	111.75
1007	Helper	day	0.75	368.00	276.00
For Insulation					
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
For Cladding					
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
Total of C					1018.75
Total of A+B+C					5760.46
	Overhead and Profits @ 15%				864.07
Grand Total					6624.52
Say					6625.00

16.7.1.3 BUTTERFLY VALVE (MANUAL) 125 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3026	Basic Price (Valve) - 125 mm dia.	Each	1	3864.00	3864.00
	Add for Cartage etc. @ 1%				39.07
Total (A)					3903.07
B INSULATION					
4027	Basic Price of Insulation	meter	0.3	124.73	37.42
3023	Add Valve Cladding	sqm	0.19	300.00	57.00
Total					94.42

	Add wastage @ 10%				9.44
	Total				103.86
	Add for Cartage etc. @ 1%				1.04
	Total (B)				103.86
	Total (A+B)				4006.93
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.25	447.00	111.75
1007	Helper	day	0.75	368.00	276.00
	For Insulation				
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
	For Cladding				
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
	Total of C				1018.75
	Total of A+B+C				5025.68
	Overhead and Profits @ 15%				753.85
	Grand Total				5779.53
	Say				5780.00

16.7.1.4 BUTTERFLY VALVE (MANUAL) 100 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3027	Basic Price (Valve) - 100 mm dia.	Each	1	3465.00	3465.00
	Add for Cartage etc. @ 1%				34.65
	Total (A)				3499.65
	B INSULATION				
4024	Basic Price of Insulation	meter	0.3	179.65	53.89
3023	Add Valve Cladding	sqm	0.17	300.00	51.00
	Total				104.89
	Add wastage @ 10%				10.49
	Total				115.38
	Add for Cartage etc. @ 1%				1.15
	Total (B)				116.54
	Total (A+B)				3616.19
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.25	447.00	111.75
1007	Helper	day	0.75	368.00	276.00

	For Insulation				
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
	For Cladding				
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
	Total of C				1018.75
	Total of A+B+C				4634.94
	Overhead and Profits @ 15%				695.24
	Grand Total				5330.18
	Say				5330.00

**16.7.1.5 BUTTERFLY VALVE (MANUAL) 80 mm
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3028	Basic Price (Valve) - 80 mm dia.	Each	1	2469.60	2469.60
	Add for Cartage etc. @ 1%				24.70
	Total (A)				2494.30
	B INSULATION				
4025	Basic Price of Insulation	meter	0.2	157.31	31.46
	Add Valve Cladding	sqm	0.12	300.00	36.00
	Total				67.46
	Add wastage @ 10%				6.75
	Total				74.21
	Add for Cartage etc. @ 1%				0.74
	Total (B)				74.95
	Total (A+B)				2569.25
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.25	447.00	112.64
1087	Welder	day	0.21	447.00	95.66
1007	Helper	day	0.47	368.00	171.49
	For Insulation				
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
	For Cladding				
1004	Fitter	day	0.2	447.00	89.40
1007	Helper	day	0.2	368.00	73.60
	Total of C				665.04
	Total of A+B+C				3234.29
	Overhead and Profits @ 15%				485.14
	Grand Total				3719.43
	Say				3719.00

16.7.1.6 BUTTERFLY VALVE (MANUAL) 65 mm
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3029	Basic Price (Valve) - 65 mm dia.	Each	1	2175.60	2175.60
	Add for Cartage etc. @ 1%				21.76
	Total (A)				2197.36
B INSULATION					
4026	Basic Price of Insulation	meter	0.2	143.35	28.67
3023	Add Valve Cladding	sqm	0.07	300.00	21.00
	Total				49.67
	Add wastage @ 10%				4.97
	Total				54.64
	Add for Cartage etc. @ 1%				0.55
	Total (B)				55.18
	Total (A+B)				2252.54
'C' LABOUR					
For fixing					
1004	Fitter	day	0.25	447.00	111.75
1087	Welder	day	0.21	447.00	94.32
1007	Helper	day	0.46	368.00	169.65
For Insulation					
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
For Cladding					
1004	Fitter	day	0.2	447.00	89.40
1007	Helper	day	0.2	368.00	73.60
	Total of C				660.97
	Total of A+B+C				2913.50
	Overhead and Profits @ 15%				437.03
	Grand Total				3350.53
	Say				3351.00

16.7.1.7 BUTTERFLY VALVE (MANUAL) 50 mm
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3030	Basic Price (Valve) - 50 mm dia.	Each	1	1999.20	1999.20
	Add for Cartage etc. @ 1%				19.99
	Total (A)				2019.19
B INSULATION					
4027	Basic Price of Insulation	meter	0.2	124.73	24.95
3023	Add Valve Cladding	sqm	0.06	300.00	18.00

Total					42.95
Add wastage @ 10%					4.29
Total					47.24
Add for Cartage etc. @ 1%					0.47
Total (B)					47.71
Total (A+B)					2066.91
'C' LABOUR					
For fixing					
1004	Fitter	day	0.20	447.00	89.40
1087	Welder	day	0.17	447.00	75.10
1007	Helper	day	0.37	368.00	135.42
For Insulation					
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
For Cladding					
1004	Fitter	day	0.2	447.00	89.40
1007	Helper	day	0.2	368.00	73.60
Total of C					585.17
Total of A+B+C					2652.08
Overhead and Profits @ 15%					397.81
Grand Total					3049.89
Say					3050.00

16.7.1.8 BUTTERFLY VALVE (MANUAL) 40 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3031	Basic Price (Valve) - 40 mm dia.	Each	1	1808.00	1808.00
	Add for Cartage etc. @ 1%				18.08
	Total (A)				1826.08
B INSULATION					
4028	Basic Price of Insulation	meter	0.2	111.70	22.34
3023	Add Valve Cladding	sqm	0.06	300.00	18.00
	Total				40.34
	Add wastage @ 10%				4.03
	Total				44.37
	Add for Cartage etc. @ 1%				0.44
	Total (B)				44.82
	Total (A+B)				1870.90
'C' LABOUR					
For fixing					
1004	Fitter	day	0.15	447.00	67.05
1087	Welder	day	0.15	447.00	67.05

CHAPTER-16 : HVAC(ONLY PLUMBING,DUCTING & AHU)

1007	Helper	day	0.3	368.00	110.40
	For Insulation				
1004	Fitter	day	0.12	447.00	53.64
1007	Helper	day	0.12	368.00	44.16
	For Cladding				
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
	Total of C				464.55
	Total of A+B+C				2335.45
	Overhead and Profits @ 15%				350.32
	Grand Total				2685.76
	Say				2686.00

16.7.2 BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.

**16.7.2.1 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 200 mm
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3032	Basic Price (Valve) - 200 mm dia.	Each	1	40857.60	40857.60
	Add for Cartage etc. @ 1%				408.58
	Total (A)				41266.18
	B INSULATION				
4021	Basic Price of Insulation	meter	0.3	488.68	146.60
3023	Add Valve Cladding	sqm	0.28	300.00	84.00
	Total				230.60
	Add wastage @ 10%				23.06
	Total				253.67
	Add for Cartage etc. @ 1%				2.54
	Total (B)				256.20
	Total (A+B)				41522.38
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.48	447.00	214.56
1087	Welder	day	0.20	447.00	89.40
1007	Helper	day	0.68	368.00	250.24
	For Insulation				
1004	Fitter	day	0.2	447.00	89.40
1007	Helper	day	0.2	368.00	73.60
	For Cladding				
1004	Fitter	day	0.2	447.00	89.40
1007	Helper	day	0.2	368.00	73.60

Total of C	880.20
Total of A+B+C	42402.58
Overhead and Profits @ 15%	6360.39
Grand Total	48762.96
Say	48763.00

**16.7.2.2 BALANCING VALVE WITH BUILT IN MEASURING FACILITY of 150 mm
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3033	Basic Price (Valve) - 150 mm dia.	Each	1	19491.15	19491.15
	Add for Cartage etc. @ 1%				194.91
	Total (A)				19686.06
B INSULATION					
4022	Basic Price of Insulation	meter	0.30	241.08	72.33
3023	Add Valve Cladding	sqm	0.24	300.00	72.00
	Total				144.33
	Add wastage @ 10%				14.43
	Total				158.76
	Add for Cartage etc. @ 1%				1.59
	Total (B)				160.35
	Total (A+B)				19846.41
'C' LABOUR					
For fixing					
1004	Fitter	day	0.48	447.00	214.56
1087	Welder	day	0.20	447.00	87.21
1007	Helper	day	0.68	368.00	248.44
For Insulation					
1004	Fitter	day	0.19	447.00	84.93
1007	Helper	day	0.19	368.00	69.92
For Cladding					
1004	Fitter	day	0.18	447.00	78.27
1007	Helper	day	0.18	368.00	64.44
	Total of C				847.76
	Total of A+B+C				20694.17
	Overhead and Profits @ 15%				3104.13
	Grand Total				23798.30
	Say				23798.00

**16.7.2.3 BALANCING VALVE WITH BUILT IN MEASURING FACILITY of 125 mm dia
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3034	Basic Price (Valve) - 125 mm dia.	Each	1	13027.35	13027.35
	Add for Cartage etc. @ 1%				130.27
	Total (A)				13157.62
B INSULATION					
4023	Basic Price of Insulation	meter	0.3	213.16	63.95
3023	Add Valve Cladding	sqm	0.19	300.00	57.00
	Total				120.95
	Add wastage @ 10%				12.09
	Total				133.04
	Add for Cartage etc. @ 1%				1.33
	Total (B)				134.37
	Total (A+B)				13292.00
'C' LABOUR					
	For fixing				
1004	Fitter	day	0.48	447.00	216.75
1087	Welder	day	0.20	447.00	91.63
1007	Helper	day	0.69	368.00	253.88
	For Insulation				
1004	Fitter	day	0.19	447.00	87.12
1007	Helper	day	0.19	368.00	71.72
	For Cladding				
1004	Fitter	day	0.18	447.00	82.65
1007	Helper	day	0.18	368.00	68.04
	Total of C				871.80
	Total of A+B+C				14163.79
	Overhead and Profits @ 15%				2124.57
	Grand Total				16288.36
	Say				18608.00

**16.7.2.4 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 100 mm dia
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3035	Basic Price (Valve) - 100 mm dia.	Each	1	9301.69	9301.69
	Add for Cartage etc. @ 1%				93.02
	Total (A)				9394.70
B INSULATION					
4024	Basic Price of Insulation	meter	0.3	179.65	62.70
	Add Valve Cladding	sqm	0.17	300.00	51.00

	Total				113.70
3023	Add wastage @ 10%				11.37
	Total				125.07
	Add for Cartage etc. @ 1%				1.25
	Total (B)				126.32
	Total (A+B)				9521.02
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.48	447.00	214.56
1087	Welder	day	0.20	447.00	90.74
1007	Helper	day	0.68	368.00	251.34
	For Insulation				
1004	Fitter	day	0.19	447.00	87.12
1007	Helper	day	0.19	368.00	71.72
	For Cladding				
1004	Fitter	day	0.18	447.00	82.65
1007	Helper	day	0.18	368.00	68.04
	Total of C				866.18
	Total of A+B+C				10387.20
	Overhead and Profits @ 15%				1558.08
	Grand Total				11945.29
	Say				11945.00

**16.7.2.5 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 80 mm dia
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3036	Basic Price (Valve) - 80 mm dia.	Each	1	5675.78	5675.78
	Add for Cartage etc. @ 1%				56.76
	Total (A)				5732.53
	B INSULATION				
4025	Basic Price of Insulation	meter	0.2	157.31	31.46
3023	Add Valve Cladding	sqm	0.12	300.00	36.00
	Total				67.46
	Add wastage @ 10%				6.75
	Total				74.21
	Add for Cartage etc. @ 1%				0.74
	Total (B)				74.95
	Total (A+B)				5807.48
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.26	447.00	118.01
1087	Welder	day	0.20	447.00	89.40
1007	Helper	day	0.46	368.00	170.75

	For Insulation				
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
	For Cladding				
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
	Total of C				622.66
	Total of A+B+C				6430.14
	Overhead and Profits @ 15%				964.52
	Grand Total				7394.66
	Say				7395.00

**16.7.2.6 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 65 mm dia
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3037	Basic Price (Valve) - 65 mm dia.	Each	1	5436.38	5436.38
	Add for Cartage etc. @ 1%				54.36
	Total (A)				5490.74
	B INSULATION				
4026	Basic Price of Insulation	meter	0.2	143.35	28.67
3023	Add Valve Cladding	sqm	0.07	300.00	21.00
	Total				49.67
	Add wastage @ 10%				4.97
	Total				54.64
	Add for Cartage etc. @ 1%				0.55
	Total (B)				55.18
	Total (A+B)				5545.92
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.26	447.00	118.41
1087	Welder	day	0.20	447.00	91.59
1007	Helper	day	0.47	368.00	172.89
	For Insulation				
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
	For Cladding				
1004	Fitter	day	0.15	447.00	67.94
1007	Helper	day	0.15	368.00	55.94
	Total of C				629.02
	Total of A+B+C				6174.94
	Overhead and Profits @ 15%				926.24
	Grand Total				7101.18
	Say				7101.00

16.7.2.7 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 50 mm dia
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3038	Basic Price (Valve) - 50 mm dia.	Each	1	4887.75	4887.75
	Add for Cartage etc. @ 1%				48.88
	Total (A)				4936.63
B INSULATION					
4027	Basic Price of Insulation	meter	0.2	124.73	24.95
	Add Valve Cladding	sqm	0.07	300.00	21.00
	Total				45.95
	Add wastage @ 10%				4.59
	Total				50.54
	Add for Cartage etc. @ 1%				0.51
	Total (B)				51.05
	Total (A+B)				4987.67
'C' LABOUR					
	For fixing				
1004	Fitter	day	0.20	447.00	89.40
1087	Welder	day	0.20	447.00	89.40
1007	Helper	day	0.40	368.00	147.20
	For Insulation				
1004	Fitter	day	0.15	447.00	66.60
1007	Helper	day	0.15	368.00	54.83
	For Cladding				
1004	Fitter	day	0.15	447.00	64.86
1007	Helper	day	0.15	368.00	53.40
	Total of C				565.69
	Total of A+B+C				5553.37
	Overhead and Profits @ 15%				833.00
	Grand Total				6386.37
	Say				6386.00

16.7.2.8 BALANCING VALVE WITH BUILT IN MEASURING FACILITY of 40 mm dia
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3039	Basic Price (Valve) - 40 mm dia.	Each	1	2236.00	2236.00
	Add for Cartage etc. @ 1%				22.36
	Total (A)				2258.36
B INSULATION					
4028	Basic Price of Insulation	meter	0.2	111.70	22.34
3023	Add Valve Cladding	sqm	0.06	300.00	18.00

Total					40.34
Add wastage @ 10%					4.03
Total					44.37
Add for Cartage etc. @ 1%					0.44
Total (B)					44.82
Total (A+B)					2303.18
'C' LABOUR					
For fixing					
1004 Fitter	day	0.14	447.00		63.47
1087 Welder	day	0.14	447.00		62.58
1007 Helper	day	0.28	368.00		103.78
For Insulation					
1004 Fitter	day	0.14	447.00		62.58
1007 Helper	day	0.14	368.00		51.52
For Cladding					
1004 Fitter	day	0.14	447.00		62.58
1007 Helper	day	0.14	368.00		51.52
Total of C					458.03
Total of A+B+C					2761.21
Overhead and Profits @ 15%					414.18
Grand Total					3175.39
Say					3175.00

16.7.3 NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified.

16.7.3.1 NON - RETURN VALVE of 200 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3040	Basic Price (Valve) - 200 mm dia.	Each	1	7052.33	7052.33
	Add for Cartage etc. @ 1%				70.52
	Total (A)				7122.85
	B INSULATION				
4021	Basic Price of Insulation	meter	0.3	488.68	146.60
3023	Add Valve Cladding	sqm	0.28	300.00	84.00
	Total				230.60
	Add wastage @ 10%				23.06
	Total				253.67
	Add for Cartage etc. @ 1%				2.54
	Total (B)				256.20
	Total (A+B)				7379.05
	'C' LABOUR				

	For fixing				
1004	Fitter	day	0.50	447.00	223.50
1087	Welder	day	0.25	447.00	110.41
1007	Helper	day	0.75	368.00	274.90
	For Insulation				
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
	For Cladding				
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
	Total of C				1016.31
	Total of A+B+C				8395.36
	Overhead and Profits @ 15%				1259.30
	Grand Total				9654.66
	Say				9655.00

**16.7.3.2 NON - RETURN VALVE of 150 mm dia
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3041	Basic Price (Valve) - 150 mm dia.	Each	1	4428.90	4428.90
	Add for Cartage etc. @ 1%				44.29
	Total (A)				4473.19
	B INSULATION				
4022	Basic Price of Insulation	meter	0.3	241.08	72.33
3023	Add Valve Cladding	sqm	0.24	300.00	72.00
	Total				144.33
	Add wastage @ 10%				14.43
	Total				158.76
	Add for Cartage etc. @ 1%				1.59
	Total (B)				160.35
	Total (A+B)				4633.53
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.23	447.00	102.81
1007	Helper	day	0.73	368.00	268.64
	For Insulation				
1004	Fitter	day	0.25	447.00	111.75
1007	Helper	day	0.25	368.00	92.00
	For Cladding				
1004	Fitter	day	0.24	447.00	109.47
1007	Helper	day	0.24	368.00	90.12
	Total of C				998.29

Total of A+B+C	5631.83
Overhead and Profits @ 15%	844.77
Grand Total	6476.60
Say	6477.00

16.7.3.3 NON - RETURN VALVE of 125 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3042	Basic Price (Valve) - 125 mm dia.	Each	1	3361.58	3361.58
	Add for Cartage etc. @ 1%				33.62
	Total (A)				3395.19
B INSULATION					
4023	Basic Price of Insulation	meter	0.3	213.16	63.95
3023	Add Valve Cladding	sqm	0.19	300.00	57.93
	Total				121.88
	Add wastage @ 10%				12.19
	Total				134.07
	Add for Cartage etc. @ 1%				1.34
	Total (B)				135.41
	Total (A+B)				3530.60
'C' LABOUR					
	For fixing				
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.23	447.00	102.81
1007	Helper	day	0.73	368.00	268.64
	For Insulation				
1004	Fitter	day	0.23	447.00	102.81
1007	Helper	day	0.23	368.00	84.64
	For Cladding				
1004	Fitter	day	0.22	447.00	97.00
1007	Helper	day	0.22	368.00	79.86
	Total of C				959.26
	Total of A+B+C				4489.86
	Overhead and Profits @ 15%				673.48
	Grand Total				5163.33
	Say				5163.00

16.7.3.4 NON - RETURN VALVE 100 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3043	Basic Price (Valve) - 100 mm dia.	Each	1	2294.25	2294.25

	Add for Cartage etc. @ 1%				22.94
	Total (A)				2317.19
	B INSULATION				
4024	Basic Price of Insulation	meter	0.3	179.65	53.89
3023	Add Valve Cladding	sqm	0.17	300.00	50.87
	Total				104.76
	Add wastage @ 10%				10.48
	Total				115.24
	Add for Cartage etc. @ 1%				1.15
	Total (B)				116.39
	Total (A+B)				2433.58
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.23	447.00	102.81
1007	Helper	day	0.73	368.00	268.64
	For Insulation				
1004	Fitter	day	0.22	447.00	98.34
1007	Helper	day	0.22	368.00	80.96
	For Cladding				
1004	Fitter	day	0.22	447.00	97.45
1007	Helper	day	0.22	368.00	80.22
	Total of C				951.92
	Total of A+B+C				3385.50
	Overhead and Profits @ 15%				507.83
	Grand Total				3893.33
	Say				3893.00

16.7.3.5 NON - RETURN VALVE of 80 mm dia
COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(MATERIALS)				
3044	Basic Price (Valve) - 80 mm dia.	Each	1	1680.79	1680.79
	Add for Cartage etc. @ 1%				16.81
	Total (A)				1697.60
	B INSULATION				
4025	Basic Price of Insulation	meter	0.2	157.31	31.46
3023	Add Valve Cladding	sqm	0.12	300.00	36.74
	Total				68.20
	Add wastage @ 10%				6.82
	Total				75.02
	Add for Cartage etc. @ 1%				0.75
	Total (B)				75.77

	Total (A+B)				1773.37
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.25	447.00	111.75
1087	Welder	day	0.20	447.00	89.40
1007	Helper	day	0.45	368.00	165.60
	For Insulation				
1004	Fitter	day	0.18	447.00	81.80
1007	Helper	day	0.18	368.00	67.34
	For Cladding				
1004	Fitter	day	0.19	447.00	84.93
1007	Helper	day	0.19	368.00	69.92
	Total of C				670.75
	Total of A+B+C				2444.11
	Overhead and Profits @ 15%				366.62
	Grand Total				2810.73
	Say				2811.00

16.7.3.6 NON - RETURN VALVE of 65 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3045	Basic Price (Valve) - 65 mm dia.	Each	1	1386.53	1386.53
	Add for Cartage etc. @ 1%				13.87
	Total (A)				1400.39
	B INSULATION				
4026	Basic Price of Insulation	meter	0.2	143.35	28.67
3023	Add Valve Cladding	sqm	0.07	300.00	21.67
	Total				50.34
	Add wastage @ 10%				5.03
	Total				55.37
	Add for Cartage etc. @ 1%				0.55
	Total (B)				55.92
	Total (A+B)				1456.31
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.25	447.00	111.75
1087	Welder	day	0.2	447.00	89.40
1007	Helper	day	0.45	368.00	165.60
	For Insulation				
1004	Fitter	day	0.18	447.00	80.46
1007	Helper	day	0.18	368.00	66.24
	For Cladding				

1004	Fitter	day	0.19	447.00	84.93
1007	Helper	day	0.19	368.00	69.92
	Total of C				668.30
	Total of A+B+C				2124.61
	Overhead and Profits @ 15%				318.69
	Grand Total				2443.30
	Say				2443.00

16.7.4 Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified.

16.7.4.1 Y - STRAINER of 200 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3046	Basic Price (Valve) - 200 mm dia.	Each	1	16794.91	16794.91
	Add for Cartage etc. @ 1%				167.95
	Total (A)				16962.86
	B INSULATION				
4021	Basic Price of Insulation	meter	0.3	488.68	146.60
3023	Add Valve Cladding	sqm	0.283	300.00	84.78
	Total				231.38
	Add wastage @ 10%				23.14
	Total				254.52
	Add for Cartage etc. @ 1%				2.55
	Total (B)				257.07
	Total (A+B)				17219.93
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.50	447.00	223.50
1087	Welder	day	0.20	447.00	89.40
1007	Helper	day	0.70	368.00	257.60
	For Insulation				
1004	Fitter	day	0.20	447.00	89.40
1007	Helper	day	0.20	368.00	73.60
	For Cladding				
1004	Fitter	day	0.22	447.00	98.34
1007	Helper	day	0.22	368.00	80.96
	Total of C				912.80
	Total of A+B+C				18132.73
	Overhead and Profits @ 15%				2719.91
	Grand Total				20852.63
	Say				20853.00

16.7.4.2 Y - STRAINER of 150 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3047	Basic Price (Valve) - 150 mm dia.	Each	1	8002.94	8002.94
	Add for Cartage etc. @ 1%				80.03
	Total (A)				8082.97
B INSULATION					
4022	Basic Price of Insulation	meter	0.3	241.08	72.33
3023	Add Valve Cladding	sqm	0.24	300.00	70.65
	Total				142.98
	Add wastage @ 10%				14.30
	Total				157.27
	Add for Cartage etc. @ 1%				1.57
	Total (B)				158.85
	Total (A+B)				8241.82
'C' LABOUR					
	For fixing				
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.2	447.00	89.40
1007	Helper	day	0.75	368.00	276.00
	For Insulation				
1004	Fitter	day	0.2	447.00	89.40
1007	Helper	day	0.2	368.00	73.60
	For Cladding				
1004	Fitter	day	0.2	447.00	89.40
1007	Helper	day	0.2	368.00	73.60
	Total of C				914.90
	Total of A+B+C				9156.72
	Overhead and Profits @ 15%				1373.51
	Grand Total				10530.22
	Say				10530.00

16.7.4.3 Y - STRAINER of 125 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3048	Basic Price (Valve) - 125 mm dia.	Each	1	7496.21	7496.21
	Add for Cartage etc. @ 1%				74.96
	Total (A)				7571.17
B INSULATION					
4023	Basic Price of Insulation	meter	0.3	213.16	63.95
3023	Add Valve Cladding	sqm	0.19	300.00	57.93

Total					121.88
Add wastage @ 10%					12.19
Total					134.07
Add for Cartage etc. @ 1%					1.34
Total (B)					135.41
Total (A+B)					7706.58
C' Labour					
For fixing					
1004 Fitter	day	0.50	447.00		225.73
1087 Welder	day	0.20	447.00		91.63
1007 Helper	day	0.71	368.00		261.27
For Insulation					
1004 Fitter	day	0.20	447.00		91.63
1007 Helper	day	0.20	368.00		75.44
For Cladding					
1004 Fitter	day	0.20	447.00		91.63
1007 Helper	day	0.20	368.00		75.44
Total of C					912.77
Total of A+B+C					8619.35
Overhead and Profits @ 15%					1292.90
Grand Total					9912.25
Say					9880.00

16.7.4.4 Y - STRAINER of 100 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3049	Basic Price (Valve) - 100 mm dia.	Each	1	4937.63	4937.63
	Add for Cartage etc. @ 1%				49.38
	Total (A)				4987.00
B INSULATION					
4024	Basic Price of Insulation	meter	0.3	179.65	53.89
3023	Add Valve Cladding	sqm	0.17	300.00	50.87
	Total				104.76
	Add wastage @ 10%				10.48
	Total				115.24
	Add for Cartage etc. @ 1%				1.15
	Total (B)				116.39
	Total (A+B)				5103.39
'C' LABOUR					
	For fixing				
1004	Fitter	day	0.50	447.00	225.69
1087	Welder	day	0.20	447.00	91.59
1007	Helper	day	0.71	368.00	261.21

	For Insulation				
1004	Fitter	day	0.20	447.00	91.59
1007	Helper	day	0.20	368.00	75.40
	For Cladding				
1004	Fitter	day	0.20	447.00	91.59
1007	Helper	day	0.20	368.00	75.40
	Total of C				912.47
	Total of A+B+C				6015.87
	Overhead and Profits @ 15%				902.38
	Grand Total				6918.25
	Say				6918.00

16.7.4.5 Y - STRAINER of 80 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3050	Basic Price (Valve) - 80 mm dia.	Each	1	3620.93	3620.93
	Add for Cartage etc. @ 1%				36.21
	Total (A)				3657.13
	B INSULATION				
4025	Basic Price of Insulation	meter	0.2	157.31	31.46
3023	Add Valve Cladding	sqm	0.12	300.00	36.74
	Total				68.20
	Add wastage @ 10%				6.82
	Total				75.02
	Add for Cartage etc. @ 1%				0.75
	Total (B)				75.77
	Total (A+B)				3732.90
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.25	447.00	111.75
1087	Welder	day	0.20	447.00	89.40
1007	Helper	day	0.45	368.00	165.60
	For Insulation				
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
	For Cladding				
1004	Fitter	day	0.18	447.00	81.35
1007	Helper	day	0.18	368.00	66.98
	Total of C				637.33
	Total of A+B+C				4370.23
	Overhead and Profits @ 15%				655.54
	Grand Total				5025.77
	Say				5026.00

16.7.4.6 Y - STRAINER of 65 mm dia
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3051	Basic Price (Valve) - 65 mm dia.	Each	1	3127.16	3127.16
	Add for Cartage etc. @ 1%				31.27
	Total (A)				3158.43
4026 B INSULATION					
	Basic Price of Insulation - 25 mm	meter	0.2	143.35	28.67
3023	Add Valve Cladding	sqm	0.07	300.00	21.67
	Total				50.34
	Add wastage @ 10%				5.03
	Total				55.37
	Add for Cartage etc. @ 1%				0.55
	Total (B)				55.92
	Total (A+B)				3214.36
'C' LABOUR					
For fixing					
1004	Fitter	day	0.25	447.00	111.97
1087	Welder	day	0.20	447.00	91.59
1007	Helper	day	0.46	368.00	167.58
For Insulation					
1004	Fitter	day	0.15	447.00	67.27
1007	Helper	day	0.15	368.00	55.38
For Cladding					
1004	Fitter	day	0.18	447.00	80.68
1007	Helper	day	0.18	368.00	66.42
	Total of C				640.89
	Total of A+B+C				3855.25
	Overhead and Profits @ 15%				578.29
	Grand Total				4433.54
	Say				4434.00

16.7.4.7 Y - STRAINER of 50 mm dia
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3052	Basic Price (Valve) - 50 mm dia.	Each	1	2413.95	2413.95
	Add for Cartage etc. @ 1%				24.14
	Total (A)				2438.09
B INSULATION					
4027	Basic Price of Insulation	meter	0.2	124.73	24.95
3023	Add Valve Cladding	sqm	0.06	300.00	18.84

	Total				43.79
	Add wastage @ 10%				4.38
	Total				48.16
	Add for Cartage etc. @ 1%				0.48
	Total (B)				48.65
	Total (A+B)				2486.74
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.2	447.00	89.40
1087	Welder	day	0.2	447.00	89.40
1007	Helper	day	0.4	368.00	147.20
	For Insulation				
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
	For Cladding				
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
	Total of C				570.50
	Total of A+B+C				3057.24
	Overhead and Profits @ 15%				458.59
	Grand Total				3515.82
	Say				3516.00

16.7.4.8 Y - STRAINER of 40 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3053	Basic Price (Valve) - 40 mm dia.	Each	1	1645.88	1645.88
	Add for Cartage etc. @ 1%				16.46
	Total (A)				1662.33
	B INSULATION				
4028	Basic Price of Insulation	meter	0.2	111.70	22.34
3023	Add Valve Cladding	sqm	0.06	300.00	16.96
	Total				39.30
	Add wastage @ 10%				3.93
	Total				43.23
	Add for Cartage etc. @ 1%				0.43
	Total (B)				43.66
	Total (A+B)				1705.99
	'C' LABOUR				
	For fixing				
1004	Fitter	day	0.15	447.00	67.05
1087	Welder	day	0.15	447.00	67.05
1007	Helper	day	0.3	368.00	110.40

	For Insulation				
1004	Fitter	day	0.14	447.00	62.80
1007	Helper	day	0.14	368.00	51.70
	For Cladding				
1004	Fitter	day	0.11	447.00	49.39
1007	Helper	day	0.11	368.00	40.66
	Total of C				449.05
	Total of A+B+C				2155.04
	Overhead and Profits @ 15%				323.26
	Grand Total				2478.30
	Say				2478.00

16.8 Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3054	Basic Price of pressure gauges	Each	1.00	717.00	717.00
	Add for cartage etc. @ 1%				7.17
	Total				724.17
	(B) Labour for Fixing				
1004	Fitter	day	0.15	447.00	67.05
1007	Helper	day	0.15	368.00	55.20
	Total				122.25
	Total(A+B)				846.42
	Overhead and Profits @ 15%				126.96
	Total				973.38
	Say				973.00

16.9 Providing & fixing in position the mercury in glass industrial type thermometers.
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3055	Basic Price of thermometer	Each	1	525.00	525.00
	Add Packaging, forwarding and freight etc. @ 1%				5.25
	Total				530.25
	(B) Labour for Fixing				
1004	Fitter	day	0.10	447.00	44.70
1007	Helper	day	0.10	368.00	37.57
	Total(B)				82.27
	Total(A+B)				612.52
	Overhead and Profits @ 15%				12.34
	Total				707.14
	Say				707.00

16.10 Condenser water pipes

16.10.1 Supplying, fixing, testing and commissioning of condenser water pipes of following sizes of MS 'C' class along with necessary clamps, vibration isolators and fittings such as bends,tees etc.but excluding valves, strainers, gauges etc. adequately supported on rigid supports duly painted/buried in ground excavation and refilling etc. as per specification and as required complete in all respect.

Note:-The Pipes size 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. And from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

16.10.1.1 Condenser water piping of nominal size - 300mm dia.**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3003	A(1) Basic Price M.S. Pipe - 300 mm dia. add for wastage@5%	meter	10	2673.41	26734.05 1336.70
Total of (A1)					28070.75
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				4210.61
Total of (A1)+A(2)					32281.37
	Add for cartage etc. @ 1%of (A(1)+A(2))				322.81
Total of A					32604.18
B(LABOUR)					
B For Piping work					
1004	Fitter	day	3.00	447.00	1341.00
1087	Welder	day	0.95	447.00	424.65
1006	Painter	day	0.75	407.00	305.25
1007	Helper	day	4.70	368.00	1729.60
Total of B(1)					3800.50
Total A+B					36404.68
	C Overhead and Profits @ 15% of (A+B)				5460.70
Total					41865.38
	Rate for 1 meter				4186.54
	Say				4187.00

16.10.1.2 Condenser water piping of nominal size - 250mm dia.**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3004	A(1) Basic Price M.S. Pipe - 250 mm dia. add for wastage@5%	meter	10	2249.10	22491.00 1124.55
Total of (A1)					23615.55
	A(2) Add for necessary brackets,supports,				

saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%					3542.33
Total of (A(1)+A(2))					27157.88
Add for cartage etc. @ 1%of (A(1)+A(2))					271.58
Total of A					27429.46
B(LABOUR)					
B For Piping work					
1004 Fitter	day	2.50	447.00		1117.50
1087 Welder	day	0.95	447.00		424.65
1006 Painter	day	0.52	407.00		211.64
1007 Helper	day	3.97	368.00		1460.96
Total of B(1)					3214.75
Total A+B					30644.21
C Overhead and Profits @ 15% of (A+B)					4596.63
Total					35240.84
Rate for 1 meter					3524.08
TOTAL					3524.08
Say					3524.00

16.10.1.3 Condenser water piping of nominal size - 200mm dia.**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia. add for wastage@5%	meter	10	1792.67	17926.65 896.33
	Total of (A1)				18822.98
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				2823.45
	Total of (A(1)+A(2))				21646.43
	Add for cartage etc. @ 1%of (A(1)+A(2))				216.46
	Total of A				21862.89
	B(LABOUR)				
	B For Piping work				
1004	Fitter	day	2.86	447.00	1278.42
1087	Welder	day	0.95	447.00	424.65
1006	Painter	day	0.52	407.00	211.64
1007	Helper	day	4.33	368.00	1593.44
	Total of B(1)				3508.15
	Total A+B				25371.04
	C Overhead and Profits @ 15% of (A+B)				3805.66
	Total				29176.70
	Rate for 1 meter				2917.67
	Say				2918.00

16.10.1.4 Condenser water piping of nominal size - 150mm dia.**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3006	A(1) Basic Price M.S. Pipe - 150 mm dia. add for wastage @5%	meter	10	1138.54	11385.36 569.27
Total of (A1)					11954.63
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1793.19
Total of (A1)+A(2)					13747.82
	Add for cartage etc. @ 1%of (A(1)+A(2))				137.48
Total of A					13885.30
B(LABOUR)					
B For Piping work					
1004	Fitter	day	2.68	447.00	1197.96
1087	Welder	day	0.95	447.00	424.65
1006	Painter	day	0.52	407.00	211.64
1007	Helper	day	4.15	368.00	1527.20
Total of B(1)					3361.45
Total A+B					17246.75
	C Overhead and Profits @ 15% of (A+B)				2587.01
Total					19833.76
	Rate for 1 meter				1983.38
	Say				1983.00

16.10.1.5 Condenser water piping of nominal size - 125mm dia.**COST FOR10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3007	A(1) Basic Price M.S. Pipe - 125 mm dia. add for wastage @5%	meter	10	958.28	9582.77 479.14
Total of (A1)					10061.91
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1509.29
Total of (A1)+A(2)					11571.20
	Add for cartage etc. @ 1%of (A(1)+A(2))				115.71
Total of A					11686.91
B(LABOUR)					
B For Piping work					
1004	Fitter	day	2.50	447.00	1117.50
1087	Welder	day	0.91	447.00	406.77

1006	Painter	day	0.52	407.00	211.64
1007	Helper	day	3.93	368.00	1446.24
	Total of B(1)				3182.15
	Total A+B				14869.06
	C Overhead and Profits @ 15% of (A+B)				2230.36
	Total				17099.42
	Rate for 1 meter				1709.94
	TOTAL				1709.94
	Say				1710.00

16.10.1.6 Condenser water piping of nominal size - 100mm dia.**COST FOR 10 METRES**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia. add for wastage@5%	meter	10	776.98	7769.79 388.49
	Total of (A1)				8158.28
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1223.74
	Total of (A1)+A(2)				9382.02
	Add for cartage etc. @ 1%of (A(1)+A(2))				93.82
	Total of A				9475.84
	B(LABOUR)				
	B For Piping work				
1004	Fitter	day	2.40	447.00	1072.80
1087	Welder	day	0.80	447.00	357.60
1006	Painter	day	0.52	407.00	211.64
1007	Helper	day	3.72	368.00	1368.96
	Total of B(1)				3011.00
	Total A+B				12486.84
	C Overhead and Profits @ 15% of (A+B)				1873.03
	Total				14359.87
	Rate for 1 meter				1435.99
	TOTAL				1435.99
	Say				1436.00

VALVES WITHOUT INSULATION

16.11 Supplying, fixing, testing and commissioning of following valves, gauges and strainers for condenser water circulation as per specifications.

16.11.1 BUTTERFLY VALVE (MANUAL) with C I body SS disc nitrile sheet & O - ring & PN 16 pressure rating as specified.

16.11.1.1 BUTTERFLY VALVE (MANUAL) 200 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3024	Basic Price (Valve) - 200 mm dia.	Each	1	8330.00	8330.00
	Add for cartage etc. @ 1%of A				83.30
	Total (A)				8413.30
B Labour					
For fixing					
1004	Fitter	day	0.5	447.00	212.33
1087	Welder	day	0.2	447.00	67.05
1007	Helper	day	0.6	368.00	230.00
	Total of B				509.38
	Total of A+B				8922.68
	Overhead and Profits @ 15%				1338.40
	Grand Total				10261.08
	Say				10261.00

16.11.1.2 BUTTERFLY VALVE (MANUAL) of 150 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3025	Basic Price (Valve) - 150 mm dia.	Each	1	4536.00	4536.00
	Add for cartage etc. @ 1%				45.36
	Total (A)				4581.36
'B' Labour					
For fixing					
1004	Fitter	day	0.50	447.00	223.50
1087	Welder	day	0.19	447.00	84.48
1007	Helper	day	0.69	368.00	253.55
	Total of B				561.54
	Total of A+B				5142.90
	Overhead and Profits @ 15%				771.43
	Grand Total				5914.33
	Say				5914.00

16.11.1.3 BUTTERFLY VALVE (MANUAL) 125 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3026	Basic Price (Valve) - 125 mm dia.	Each	1	3864.00	3864.00
	Add for cartage etc. @ 1%of A				38.64
	Total (A)				3902.64
'B' Labour					
For fixing					
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.2	447.00	86.27
1007	Helper	day	0.7	368.00	255.02
	Total of B				564.80
	Total of A+B				4467.44
	Overhead and Profits @ 15%				670.12
	Grand Total				5137.55
	Say				5138.00

16.11.1.4 BUTTERFLY VALVE (MANUAL) 100 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3027	Basic Price (Valve) - 100 mm dia.	Each	1	3465.00	3465.00
	Add for cartage etc. @ 1%				34.65
	Total (A)				3499.65
'B' Labour					
For fixing					
1004	Fitter	day	0.5	447.00	223.50
1087	Welder	day	0.2	447.00	91.55
1007	Helper	day	0.7	368.00	259.37
	Total of B				574.41
	Total of A+B				4074.06
	Overhead and Profits @ 15%				611.11
	Grand Total				4685.17
	Say				4685.00

16.11.1.5 BUTTERFLY VALVE (MANUAL) 80 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3028	Basic Price (Valve) - 80 mm dia.	Each	1	2469.60	2469.60
	Add for cartage etc. @ 1%				24.70
	Total (A)				2494.30
'B' Labour					
For fixing					
1004	Fitter	day	0.30	447.00	135.44
1087	Welder	day	0.16	447.00	71.52

1007	Helper	day	0.46	368.00	170.38
	Total of B				377.35
	Total of A+B				2871.64
	Overhead and Profits @ 15%				430.75
	Grand Total				3302.39
	Say				3302.00

**16.11.1.6 BUTTERFLY VALVE (MANUAL) 65 mm
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3029	Basic Price (Valve) - 65 mm dia.	Each	1	2175.60	2175.60
	Add for cartage etc. @ 1%				21.76
	Total (A)				2175.60
	'B' Labour				
	For fixing				
1004	Fitter	day	0.3	447.00	134.10
1087	Welder	day	0.2	447.00	89.40
1007	Helper	day	0.5	368.00	184.00
	Total of B				407.50
	Total of A+B				2583.10
	Overhead and Profits @ 15%				387.47
	Grand Total				2970.57
	Say				2971.00

**16.11.1.7 BUTTERFLY VALVE (MANUAL) 50 mm
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3030	Basic Price (Valve) - 50 mm dia.	Each	1	1999.20	1999.20
	Add for cartage etc. @ 1%				19.99
	Total (A)				2019.19
	'B' Labour				
	For fixing				
1004	Fitter	day	0.22	447.00	99.55
1087	Welder	day	0.15	447.00	67.05
1007	Helper	day	0.37	368.00	137.15
	Total of B				303.75
	Total of A+B				2322.94
	Overhead and Profits @ 15%				348.44
	Grand Total				2671.38
	Say				2671.00

16.11.1.8 BUTTERFLY VALVE (MANUAL) 40 mm**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3031	Basic Price (Valve) - 40 mm dia.	Each	1	1808.00	1808.00
	Add for cartage etc. @ 1%				18.08
	Total (A)				1826.08
	'B' Labour				
	For fixing				
1004	Fitter	day	0.15	447.00	68.84
1087	Welder	day	0.12	447.00	53.64
1007	Helper	day	0.27	368.00	100.83
	Total of B				223.31
	Total of A+B				2049.39
	Overhead and Profits @ 15%				307.41
	Grand Total				2356.80
	Say				2357.00

16.11.2 NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating as specified.**16.11.2.1 NON - RETURN VALVE of 200 mm dia****COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3040	Basic Price (Valve) - 200 mm dia.	Each	1	7052.33	7052.33
	Add for cartage etc. @ 1%				70.52
	Total (A)				7122.85
	'B' Labour				
	For fixing				
1004	Fitter	day	0.50	447.00	223.50
1087	Welder	day	0.16	447.00	69.29
1007	Helper	day	0.66	368.00	241.04
	Total of B				533.83
	Total of A+B				7656.67
	Overhead and Profits @ 15%				1148.50
	Grand Total				8805.17
	Say				8805.00

16.11.2.2 NON - RETURN VALVE of 150 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3041	Basic Price (Valve) - 150 mm dia.	Each	1	4428.90	4428.90
	Add for cartage etc. @ 1%				44.29
	Total (A)				4473.19
	'B' Labour				
	For fixing				
1004	Fitter	day	0.50	447.00	225.73
1087	Welder	day	0.16	447.00	73.75
1007	Helper	day	0.67	368.00	246.55
	Total of B				546.03
	Total of A+B				5019.22
	Overhead and Profits @ 15%				752.88
	Grand Total				5772.11
	Say				5772.00

16.11.2.3 NON - RETURN VALVE of 125 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3042	Basic Price (Valve) - 125 mm dia.	Each	1	3361.58	3361.58
	Add for cartage etc. @ 1%				33.62
	Total (A)				3395.19
	'B' Labour				
	For fixing				
1004	Fitter	day	0.50	447.00	223.50
1087	Welder	day	0.19	447.00	85.82
1007	Helper	day	0.69	368.00	254.66
	Total of B				563.98
	Total of A+B				3959.17
	Overhead and Profits @ 15%				593.88
	Grand Total				4553.05
	Say				4553.00

16.11.2.4 NON - RETURN VALVE 100 mm dia**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3043	Basic Price (Valve) - 100 mm dia.	Each	1	2294.25	2294.25
	Add for cartage etc. @ 1%				22.94
	Total (A)				2317.19

	'B' Labour				
	For fixing				
1004	Fitter	day	0.50	447.00	224.39
1087	Welder	day	0.20	447.00	91.59
1007	Helper	day	0.71	368.00	260.14
	Total of B				576.12
	Total of A+B				2893.32
	Overhead and Profits @ 15%				434.00
	Grand Total				3327.31
	Say				3327.00

**16.11.2.5 NON - RETURN VALVE of 80 mm dia
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3044	Basic Price (Valve) - 80 mm dia.	Each	1	1680.79	1680.79
	Add for cartage etc. @ 1%				16.81
	Total (A)				1697.60
	'B' Labour				
	For fixing				
1004	Fitter	day	0.32	447.00	143.04
1087	Welder	day	0.15	447.00	66.60
1007	Helper	day	0.47	368.00	172.59
	Total of B				382.24
	Total of A+B				2079.83
	Overhead and Profits @ 15%				311.97
	Grand Total				2391.80
	Say				2392.00

**16.11.2.6 NON - RETURN VALVE of 65 mm dia
COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3045	Basic Price (Valve) - 65 mm dia.	Each	1	1386.53	1386.53
	Add for cartage etc. @ 1%				13.87
	Total (A)				1400.39
	'B' Labour				
	For fixing				
1004	Fitter	day	0.32	447.00	144.83
1087	Welder	day	0.15	447.00	68.84
1007	Helper	day	0.48	368.00	175.90
	Total of B				389.57
	Total of A+B				1789.96
	Overhead and Profits @ 15%				268.49
	Grand Total				2058.45
	Say				2058.00

16.11.3 Supplying, fixing, testing and commissioning of following sizes Motorized Butterfly Valves with CI Body, SS Disc,O - ring and minimum PN-16 pressure rating, conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC and upto 20mA electric signal and providing similar transduced feedback output to control system as required.

16.11.3.1 350mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3101	(A) Basic Price	each	1	66779.00	66779.00
	Cartage @ 1% of materials				667.79
	ITC including wiring @6 % of A				4006.74
	Sub Total				71453.53
	Add 15 % Over Head & Contractor Profit				10718.03
	Cost for Each				82171.56
	Say				82172.00

16.11.3.2 300mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3102	(A) Basic Price	each	1	59842.00	59842.00
	Cartage @ 1% of materials				598.42
	ITC including wiring @6% of A				3590.52
	Sub Total				64030.94
	Add 15 % Over Head & Contractor Profit				9604.64
	Cost for Each				73635.58
	Say				73636.00

16.11.3.3 250mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3103	(A) Basic Price	each	1	43083.00	43083.00
	Cartage @ 1% of materials				430.83
	ITC including wiring @6% of A				2584.98
	Sub Total				46098.81
	Add 15 % Over Head & Contractor Profit				6914.82
	Cost for Each				53013.63
	Say				53014.00

16.11.3.4 200mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3104	(A) Basic Price	each	1	32497.00	32497.00
	Cartage @ 1% of materials				324.97
	ITC including wiring @ 7.5 % of A				2437.28
	Sub Total				35259.25
	Add 15 % Over Head & Contractor Profit				5288.89
	Cost for Each				40548.13
	Say				40548.00

16.11.3.5 150mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3105	(A) Basic Price	each	1	25194.00	25194.00
	Cartage @ 1% of materials				251.94
	ITC including wiring @ 7.5 % of A				1889.55
	Sub Total				27335.49
	Add 15 % Over Head & Contractor Profit				4100.32
	Cost for Each				31435.81
	Say				31436.00

16.11.3.6 125mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3106	(A) Basic Price	each	1	24977.00	24977.00
	Cartage @ 1% of materials				249.77
	ITC including wiring @ 7.5 % of A				1873.28
	Sub Total				27100.05
	Add 15 % Over Head & Contractor Profit				4065.01
	Cost for Each				31165.05
	Say				31165.00

16.11.3.7 100mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3107	(A) Basic Price	each	1	24513.00	24513.00
	Cartage @ 1% of materials				245.13
	ITC including wiring @ 7.5 % of A				1838.48

Sub Total	26596.61
Add 15 % Over Head & Contractor Profit	3989.49
Cost for Each	30586.10
Say	30586.00

16.11.3.8 80mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3108	(A) Basic Price	each	1	10481.00	10481.00
	Cartage @ 1% of materials				104.81
	ITC including wiring @ 7.5 % of A				786.08
	Sub Total				11371.89
	Add 15 % Over Head & Contractor Profit				1705.78
	Cost for Each				13077.67
	Say				13078.00

16.11.3.9 65mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3109	(A) Basic Price	each	1	10380.00	10380.00
	Cartage @ 1% of materials				103.80
	ITC including wiring @ 7.5 % of A				778.50
	Sub Total				11262.30
	Add 15 % Over Head & Contractor Profit				1689.35
	Cost for Each				12951.65
	Say				12952.00

16.11.3.10 50mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3110	(A) Basic Price	each	1	10168.00	10168.00
	Cartage @ 1% of materials				101.68
	ITC including wiring @ 7.5 % of A				762.60
	Sub Total				11032.28
	Add 15 % Over Head & Contractor Profit				1654.84
	Cost for Each				12687.12
	Say				12687.00

16.11.4 Supply, Installation, Testing and Commissioning of following sizes electronic, self-balancing, pressure independent type dynamic balancing valve with integrated 2 way modulating control valves in a single body. The actuator shall be capable of accepting upto 10V DC and upto 20mA electric signal and shall provide similar transduced feedback output to control system. Maximum close off pressure shall not be less than 6 Bar for upto 50 mm valves and not be less than 7 Bar for 65 mm & above. Valves should have pressure rating of 25 Bar minimum.

16.11.4.1 150mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3111	(A) Basic Price	each	1	93800.00	93800.00
	Cartage @ 1% of materials				938.00
	ITC including wiring @6% of A				5628.00
	Sub Total				100366.00
	Add 15 % Over Head & Contractor Profit				15054.90
	Cost for Each				115420.90
	Say				115421.00

16.11.4.2 125mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3112	(A) Basic Price	each	1	85400.00	85400.00
	Cartage @ 1% of materials				854.00
	ITC including wiring @6 % of A				5124.00
	Sub Total				91378.00
	Add 15 % Over Head & Contractor Profit				13706.70
	Cost for Each				105084.70
	Say				105085.00

16.11.4.3 100mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3113	(A) Basic Price	each	1	67200.00	67200.00
	Cartage @ 1% of materials				672.00
	ITC including wiring @6% of A				4032.00
	Sub Total				71904.00
	Add 15 % Over Head & Contractor Profit				10785.60
	Cost for Each				82689.60
	Say				82690.00

16.11.4 4 80mm dia.
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3114	(A) Basic Price	each	1	39200.00	39200.00
	Cartage @ 1% of materials				392.00
	ITC including wiring @ 7.5 % of A				2940.00
	Sub Total				42532.00
	Add 15 % Over Head & Contractor Profit				6379.80
	Cost for Each				48911.80
	Say				48912.00

16.11.4.5 65mm dia.
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3115	(A) Basic Price	each	1	30800.00	30800.00
	Cartage @ 1% of materials				308.00
	ITC including wiring @ 7.5 % of A				2310.00
	Sub Total				33418.00
	Add 15 % Over Head & Contractor Profit				5012.70
	Cost for Each				38430.70
	Say				38431.00

16.11.4.6 50mm dia.
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3116	(A) Basic Price	each	1	19950.00	19950.00
	Cartage @ 1% of materials				199.50
	ITC including wiring @ 7.5 % of A				1496.25
	Sub Total				21645.75
	Add 15 % Over Head & Contractor Profit				3246.86
	Cost for Each				24892.61
	Say				24893.00

16.11.4.7 40mm dia.
COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3117	(A) Basic Price	each	1	18200.00	18200.00
	Cartage @ 1% of materials				182.00

ITC including wiring @ 7.5 % of A	1365.00
Sub Total	19747.00
Add 15 % Over Head & Contractor Profit	2962.05
Cost for Each	22709.05
Say	22709.00

16.11.4.8 32mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3118	(A) Basic Price	each	1	9800.00	9800.00
	Cartage @ 1% of materials				98.00
	ITC including wiring @ 7.5 % of A				735.00
	Sub Total				10633.00
	Add 15 % Over Head & Contractor Profit				1594.95
	Cost for Each				12227.95
	Say				12228.00

16.11.4.9 25mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3119	(A) Basic Price	each	1	9240.00	9240.00
	Cartage @ 1% of materials				92.40
	ITC including wiring @ 7.5 % of A				693.00
	Sub Total				10025.40
	Add 15 % Over Head & Contractor Profit				1503.81
	Cost for Each				11529.21
	Say				11529.00

16.11.4.10 20mm dia.**COST FOR EACH**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
MATERIALS					
3120	(A) Basic Price	each	1	6720.00	6720.00
	Cartage @ 1% of materials				67.20
	ITC including wiring @ 7.5 % of A				504.00
	Sub Total				7291.20
	Add 15 % Over Head & Contractor Profit				1093.68
	Cost for Each				8384.88
	Say				8385.00

DUCTING, GRILLS,DIFFUSER AND INSULATION

16.12.1 Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.

16.12.1.1 Factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3056	Basic Price of 0.63 mm sheet duct	sqm	10	430.35	4303.51
	Add Supports like MS angles, channels, rods, anchor bolts and other accessories etc. @ 15%				645.53
	Total of A				4949.04
	(B) Cartage @ 1%				49.49
	Total (A+B)				4998.53
	(C) Labour				
	Labour for boxing of L-section @ 5%				249.93
	Labour for Fixing				
1004	Fitter	day	1.45	447.00	648.15
1007	Helper	day	1.45	368.00	533.60
	Total of (C)labour				1431.68
	Total of A+B+C				6430.21
	Overhead and Profits @ 15%				964.53
	TOTAL				7394.74
	For 1 sqm				739.47
	Say				739.00

16.12.1.2 Factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3057	Basic Price of 0.80 mm sheet duct	sqm	10	548.26	5482.56
	Add Supports like MS angles, channels, rods, anchor bolts and other accessories etc. @ 15%				822.38
	Total of A				6304.94
	(B) Cartage @ 1%				63.05
	Total (A+B)				6367.99
	(C) Labour				
	Labour for boxing of L-section @ 5%				318.40
	Labour for Fixing				
1004	Fitter	day	1.45	447.00	648.15
1007	Helper	day	1.45	368.00	533.60
	Total of (C)labour				1500.15

Total of A+B+C	7868.14
Overhead and Profits @ 15%	1180.22
TOTAL	9048.36
For 1 sqm	904.84
Say	905.00

**16.12.1.3 Factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006
COST FOR 10 METRES DUCT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3058	Basic Price of 1.0 mm sheet duct	sqm	10	654.37	6543.70
	Add Supports like MS angles, channels, rods, anchor bolts and other accessories etc. @ 15%				981.55
	Total of A				7525.25
	(B) Cartage @ 1%				75.25
	Total (A+B)				7600.51
(C) Labour					
	Labour for boxing of L-section @ 5%				376.26
	Labour for Fixing				
1004	Fitter	day	1.03	447.00	460.41
1007	Helper	day	1.03	368.00	379.04
	Total of (C)labour				1215.71
	Total of A+B+C				8816.22
	Overhead and Profits @ 15%				1322.43
	TOTAL				10138.65
	For 1 sqm				1013.87
	Say				1014.00

**16.12.1.4 factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006
COST FOR 10 METRES DUCT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3059	Basic Price of 1.25 mm sheet	sqm	10	766.38	7663.79
	Add Supports like MS angles, channels, rods, anchor bolts and other accessories etc. @ 15%				1149.57
	Total of A				8813.36
	(B) Cartage @ 1%				88.13
	Total (A+B)				8901.49
(C) Labour					
	Labour for boxing of L-section @ 5%				445.07
	Labour for Fixing				
1004	Fitter	day	2.17	447.00	969.99
1007	Helper	day	2.17	368.00	798.56
	Total of (C)labour				2213.62

Total of A+B+C	11115.12
Overhead and Profits @ 15%	1667.27
TOTAL	12782.39
For 1 sqm	1278.24
Say	1278.00

16.12.2 Supply, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.

16.12.2.1 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 0.63 mm thick

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3060	Basic Price of 0.63 mm sheet	sqm	10	310.86	3108.60
	Add Wastage @ 10%				310.86
	Total of A				3419.46
	(B) Cartage @ 1%				34.19
	Total (A+B)				3453.65
	B Labour				
	Labour for Fabrication				
1004	Fitter	day	1.48	447.00	661.56
1007	Helper	day	1.48	368.00	544.64
	Labour for Fixing				
1004	Fitter	day	1.00	447.00	447.00
1007	Helper	day	1.00	368.00	368.00
	Total of labour				2021.20
	Total (A+B)				5474.85
	C Overhead and Profit @ 15% of A+B				821.23
	G Total				6296.08
	cost per sqm				629.61
	Say				630.00

16.12.2.2 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 0.8 mm thick

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3061	Basic Price of 0.80 mm sheet	sqm	10	414.48	4144.80
	Add Wastage @ 10%				414.48
	Total of A				4559.28
	(B) Cartage @ 1%				45.59
	Total (A+B)				4604.87

	B Labour				
	Labour for Fabrication				
1004	Fitter	day	1.48	447.00	659.33
1007	Helper	day	1.48	368.00	542.80
	Labour for Fixing				
1004	Fitter	day	1	447.00	397.83
1007	Helper	day	1	368.00	327.52
	Total of labour				1927.48
	Total (A+B)				6532.35
	C Overhead and Profit @ 15% of A+B				979.85
	G Total				7512.20
	cost per sqm				751.22
	Say				751.00

16.12.2.3 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 1.00 mm thick

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3062	Basic Price of 1.00 mm sheet	sqm	10	518.10	5181.00
	Add Wastage @ 10%				518.10
	Total of A				5699.10
	(B) Cartage @ 1%				56.99
	Total (A+B)				5756.09
	B Labour				
	Labour for Fabrication				
1004	Fitter	day	2.00	447.00	894.00
1007	Helper	day	2.00	368.00	736.00
	Labour for Fixing				
1004	Fitter	day	1.43	447.00	639.21
1007	Helper	day	1.43	368.00	526.24
	Total of labour				2795.45
	Total (A+B)				8551.54
	C Overhead and Profit @ 15% of A+B				1282.73
	G Total				9834.27
	cost per sqm				983.43
	Say				983.00

16.12.2.4 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 1.25 mm thick

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3063	Basic Price of 1.25 mm sheet	sqm	10	627.00	6270.00

	Add Wastage @ 10%				627.00
	Total of A				6897.00
	(B) Cartage @ 1%				68.97
	Total (A+B)				6965.97
	B Labour				
	Labour for Fabrication				
1004	Fitter	day	2	447.00	804.60
1007	Helper	day	2	368.00	662.40
	Labour for Fixing				
1004	Fitter	day	1.43	447.00	639.21
1007	Helper	day	1.43	368.00	526.24
	Total of labour				2632.45
	Total (A+B)				9598.42
	C Overhead and Profit @ 15% of A+B				1439.76
	G Total				11038.18
	cost per sqm				1103.82
				Say	1104.00

16.13 Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.

GI volume control duct damper

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3064	Basic Price	sqm	1	4300.00	4300.00
	Add for cartage etc. @ 1%				43.00
	Total of A				4343.00
	(B) Labour for Fixing				
1004	Fitter	day	0.50	447.00	223.50
1007	Helper	day	0.50	368.00	184.00
	Total				407.50
	Total of A+B				4750.50
	Overhead and Profits @ 15%				712.58
	Total				5463.08
	TOTAL				5463.08
	Say				5463.00

16.14 Supply, installation, testing and commissioning of Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire (minimum 1.5 sqmm) for integration within AHU room

**16.14.1 Motorized (ON-OFF Type) duct mounted GI volume control damper
COST FOR 10 METRES DUCT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3064	Basic Price	sqm	1	4300.00	4300.00
	Total				4300.00
	Add for cartage etc. @ 1%				43.00
	Total of A				4343.00
Labour for Fixing					
1004	Fitter	day	0.50	447.00	223.50
1001	Wireman	day	0.90	447.00	403.19
1007	Helper	day	1.40	368.00	515.94
	Total of B				1142.63
	Total of A+B				5485.63
	Overhead and Profits @ 15%				822.84
	Total				6308.47
	Say				6308.00

**16.14.2 Motorized (ON-OFF Type) duct mounted GI volume control Actuator
COST FOR 10 METRES DUCT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3065	Basic Price	each	1	3589.00	3589.00
	Add for cartage etc. @ 1%				35.89
	Total of A				3624.89
B Labour for Fixing					
1004	Fitter	day	0.50	447.00	223.50
1001	Wireman	day	0.90	447.00	403.19
1007	Helper	day	1.40	368.00	515.94
	Total of B				1142.63
	Total of A+B				4767.52
	Overhead and Profits @ 15%				715.13
	Total				5482.65
	TOTAL				5482.65
	Say				5483.00

**16.15 Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications.
COST FOR 10 METRES DUCT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3066	Basic Price	sqm	10	5912.68	59126.80
	Add fo cartage etc. @ 1%				591.27

	Add for screws etc.	LS			260.00
	Total of A				59978.07
	B Labour for Fixing				
1004	Fitter	day	2.50	447.00	1117.50
1007	Helper	day	2.50	368.00	920.00
	Total of B				2037.50
	Total of A+B				62015.57
	Overhead and Profits @ 15%				9302.33
	Total				71317.90
	Rate for 1 sqm				7131.79
	Say				7132.00

16.16 Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3067	Basic Price	sqm	10.00	3272.43	32724.27
	Add for cartage etc. @ 1%				327.24
	Add for screws etc.	LS			260.00
	Total of A				33311.51
	B Labour for Fixing				
1004	Fitter	day	2.5	447.00	1117.50
1007	Helper	day	2.50	368.00	920.00
	Total of B				2037.50
	Total of A+B				35349.01
	Overhead and Profits @ 15%				5302.35
	Total				40651.36
	Rate for 1 sqm				4065.14
	Say				4065.00

16.17 Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3068	Basic Price	sqm	10.00	7251.40	72514.00
	Add for cartage etc. @ 1%				725.14
	Add for screws etc.	LS			250.00
	Total of A				73489.14
	B Labour for Fixing				
1004	Fitter	day	2.50	447.00	1117.50
1007	Helper	day	2.50	368.00	920.00

Total of B	2037.50
Total of A+B	75526.64
Overhead and Profits @ 15%	11329.00
Total	86855.63
Rate for 1 sqm	8685.56
Say	8686.00

16.18 Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3069	Basic Price	sqm	10.00	4611.15	46111.47
	Add for cartage etc. @ 1%				461.11
	Add for screws etc.	LS			250.00
	Total of A				46822.58
B Labour for Fixing					
1004	Fitter	day	2.50	447.00	1117.50
1007	Helper	day	2.50	368.00	920.00
	Total of B				2037.50
	Total of A+B				48860.08
	Overhead and Profits @ 15%				7329.01
	Total				56189.09
	Rate for 1 sqm				5618.91
	Say				5619.00

16.19 Supply, installation, testing & commissioning of thermal insulated flexible duct of following sizes duly supported at regular interval as per site requirement etc. complete as required as per specifications.

16.19.1 Thermal insulated flexible duct (200mmdia)

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3070	Basic price	meter	10.00	274.00	2740.00
	Add for supports etc. @5%				137.00
	Total				2877.00
	Add for cartage etc. @ 1%				28.77
	Total				2905.77
B Labour for Fixing					
1004	Fitter	day	0.50	447.00	223.50
1007	Helper	day	0.50	368.00	184.00
	Total of labour				407.50
	Total				3313.27
	Overhead and Profits @ 15%				496.99

Total	3810.26
For 1 meter	381.03
Say	381.00

16.20 Supplying, fixing, testing and commissioning of fire dampers in supply air duct/ main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications.

16.20.1 Fire damper

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3071	Basic Price	sqm	1	5711.87	5711.87
	Add for cartage etc. @ 1%				57.12
	Total				5768.99
B Labour for Fixing					
1004	Fitter	day	0.50	447.00	223.50
1007	Helper	day	0.50	368.00	184.00
	Total of labour				407.50
	Total				6176.49
	Overhead and Profits @ 15%				926.47
	TOTAL				7102.96
	Say	sqm			7103.00

16.20.2 Actuator

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3072	Basic Price	each	1	5255.72	5256.00
	Add for cartage etc. @ 1%				53.00
	Total				5308.00
Labour for Fixing					
1004	Fitter	day	0.50	447.00	221.27
1001	Wireman	day	0.04	447.00	16.99
1007	Helper	day	0.53	368.00	196.14
	Total of labour				434.40
	Total				5742.67
	Overhead and Profits @ 15%				861.40
	TOTAL				6604.07
	Say	each			6604.00

16.21 Supply and fixing of acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m³, with 25 mm X 25 mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminum sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound etc. complete as required and as per specifications.

16.21 Acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m³

COST FOR 10 SQM

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
4069	Basic Price	sqm	10	152.00	1520.00
	Add Wastage @ 15%				228.00
	Total				1748.00
	Add for Frame work of aluminium channel etc. @25%				380.00
	Total				2128.00
4070	Add for reinforced fiber glass tissue and 0.80 mm perforated aluminium sheet etc.	sqm	10.00	260.00	2600.00
	Total				4728.00
	Add Cartage etc. @ 1%				47.28
	Total of A				4775.28
B(1) Labour For lining works					
1004	Fitter	day	0.60	447.00	268.20
1007	Helper	day	0.60	368.00	220.80
	Total of B(1)				489.00
B(1) Labour For insulation works					
1004	Fitter	day	0.30	447.00	134.10
1007	Helper	day	0.30	368.00	110.40
	Total of B(1)				244.50
	Total				733.50
	TOTAL				5508.78
	Rate for 1 sqmeter				550.88
	Say				551.00

16.22 Supplying, fixing acoustic lining on wall and ceiling of AHU rooms with 50mm thick, density 32 kg/cum resin bonded glass fiber insulation friction fixed in 610mm x 610 mm frame work made of 25X50X50X50X25 mm made out of 0.6mm thick GI sheet U shaped channel and covered with reinforced fiber glass tissue and finished with 0.80 mm perforated aluminium sheet etc. complete as required and as per specifications.

**16.22 50 mm thick resin bonded glass wool having density of 32 kg/m³
COST FOR 10 SQM**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
4071	Basic Price	sqm	10	196.02	1960.23
	Add Wastage @ 10%				196.02
	Total				2156.26
	Add for adhesive compound and tape etc. @ 5%				107.81
	Total				4420.32
	Add for Frame work of aluminium channel i/c screws etc. etc. @ 25%				1105.08
	Total				5525.41
4070	Add for reinforced fiber glass tissue and 0.80 mm perforated aluminium sheet etc.		10.00	260.00	2600.00
	Total				8125.41
	Add Cartage etc. @ 1%				81.25
	Total of A				8206.66
B(1) Labour For lining works					
1004	Fitter	day	0.4	447.00	178.80
1007	Helper	day	0.4	368.00	147.20
	Total of B(1)				326.00
B(1) Labour For insulation works					
1004	Fitter	day	0.2	447.00	89.40
1007	Helper	day	0.2	368.00	73.60
	Total of B(1)				163.00
	Total				489.00
	TOTAL A+B				8695.66
	Rate for 1 sqmeter				869.57
	Say				870.00

16.23.1 Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.

COST FOR 10 SQM

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3076	Basic Price of nitrile rubber Insulation - 19 mm	sqm	10	605.55	6055.50
	Add Wastage @ .05%				302.78
	Total				6358.28
	Add for adhesive compound and tape etc. @ 5%				302.78

	Total				6661.05
	Add for cartage etc. @ 1%of A				66.61
	Total				6727.66
	B' LABOUR				
	For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B				407.50
	Total A+B				7135.16
	Overhead and Profits @ 15% of (A+B)				1070.27
	Total				8205.43
	For 1 sq meter				820.54
	Say				821.00

16.23.2 Nitrile rubber Insulation - 25 mm**COST FOR 10 SQ. M.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3077	Basic Price	sqm	10	772.75	7727.50
	Add Wastage @ 05%				386.38
	Total				8113.88
	Add for adhesive compound and tape etc. @ 5%				386.38
	Total				8500.25
	Add for cartage etc. @ 1%of A				85.00
	Total				8585.25
	B' LABOUR				
	For Insulation works				
1004	Fitter	day	0.5	447.00	223.50
1007	Helper	day	0.5	368.00	184.00
	Total of B				407.50
	Total A+B				8992.75
	Overhead and Profits @ 15% of (A+B)				1348.91
	Total				10341.67
	For 1 sq meter				1034.17
	TOTAL				1034.17
	Say				1034.00

16.24 Supplying and fixing 50 mm thick aluminium foil faced resin bonded fibre glass insulation (on duct) of density 24 kg/cu.m or mineral wool insulation of density 44 kg/cu m after applying two coats of cold setting adhesive (CPRX compound) sealing all joints with self adhesive aluminium tape & covering with 0.63mmx19mm GI wire mesh netting butting all joints and laced with GI wire complete as per specifications and as required. (for indoor applications).

**16.24 50 mm thick insulation
COST FOR 10 SQ. M.**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
4072	Basic Price	sqm	10.00	193.45	1934.52
	Add Wastage @ 10%				193.45
	Total				2127.98
	Add for Adhesive compound,aluminium tape and wire mesh etc. @15%				319.20
	Total				2447.17
	Add for cartage etc. @ 1%				24.47
	Total				2471.65
B LABOUR FOR FIXING					
1004	Fitter	day	1.00	447.00	447.00
1007	Helper	day	1.00	368.00	368.00
	Total for labour				815.00
	Total of A and B				3286.65
	Overhead and Profits @ 15%				493.00
	Total				3779.64
	Rate for 1 sq m				377.96
	Say				378.00

16.25 Supplying and fixing 50mm thick aluminium foil faced resin bonded fibre glass insulation (on duct) of density 24 kg/cu.m or mineral wool insulation of density 44 kg/cu m after applying two coats of cold setting adhesive (CPRX compound) sealing all joints with self adhesive aluminium tape & covering with 0.63mmx19mm GI wire mesh netting & butting all joints and laced with GI wire complete and finally covered with one layer of tar felt stuck with hot bitumen as per specifications and as required. (for outdoor applications)

**16.25 50 mm thick
COST FOR 10 SQ. M. DUCT**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
4072	Basic Price	Sq.m.	10.00	193.45	1934.52
	Add Wastage @ 10%				193.45
	Total				2127.98
	Add for Adhesive compound,aluminium tape and wire mesh etc. @15%				319.20
	Total				2447.17
	Add for cartage etc. @ 1%				24.47
	Total				2471.65
B Labour for Fixing					
1004	Fitter	day	1.00	447.00	447.00
1007	Helper	day	1.00	368.00	368.00

Total for labour	815.00
Total of A and B	3286.65
LS for bituman and Tar felt	590.00
Total	3876.65
Overhead and Profits @ 15%	493.00
Total	4369.64
Rate for 1 sq m	436.96
Say	437.00

16.26 Supply, Installation, Testing and commissioning of factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators,cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 6 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of effecinecy class IE3 suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply suitably designed for variable frequency drive applications, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.)and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.

16.26.1 Double skin AHU Units of 6 row cooling coil of 4300 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3078	Basic Price	each	1	61249.85	61249.85
	Add for cartage etc. @ 1%				612.50
	Total A				61862.35
	ITC @6% of A				3711.74
	Total				65574.09
	Overhead and Profits @ 15%				9836.11
	Total				75410.20
	Say				75410.00

16.26.2 Double skin AHU Units of 6 row cooling coil of 5100 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3079	Basic Price	each	1	72058.65	72058.65
	Add for cartage etc. @ 1%				720.59
	Total A				72779.23
	ITC @6% of A				4366.75
	Total				77145.99
	Overhead and Profits @ 15%				11571.90
	Total				88717.88
	Say				88718.00

16.26.3 Double skin AHU Units of 6 row cooling coil of 6800 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3080	Basic Price	each	1	81229.75	81229.75
	Add for cartage etc. @ 1%				812.30
	Total A				82042.04
	ITC @6% of A				4922.52
	Total				86964.57
	Overhead and Profits @ 15%				13044.68
	Total				100009.25
	Say				100009.00

16.26.4 Double skin AHU Units of 6 row cooling coil of 8500 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3081	Basic Price	each	1	101340.66	101340.66
	Add for cartage etc. @ 1%				1013.41
	Total A				102354.07
	ITC @6% of A				6141.24
	Total				108495.31
	Overhead and Profits @ 15%				16274.30
	Total				124769.61
	Say				124770.00

16.26.5 Double skin AHU Units of 6 row cooling coil of 10200 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3082	Basic Price	each	1	118503.72	118503.72
	Add for cartage etc. @ 1%				1185.04
	Total A				119688.75
	ITC @6% of A				7181.33
	Total				126870.08
	Overhead and Profits @ 15%				19030.51
	Total				145900.59
	Say				145901.00

16.26.6 Double skin AHU Units of 6 row cooling coil of 11900 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3083	Basic Price	each	1	133177.48	133177.48
	Add for cartage etc. @ 1%				1331.77
	Total A				134509.25
	ITC @6% of A				8070.56
	Total				142579.81

Overhead and Profits @ 15%	21386.97
Total	163966.78
Say	163967.00

16.26.7 Double skin AHU Units of 6 row cooling coil of 13600 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3084	Basic Price	each	1	147851.24	147851.24
	Add for cartage etc. @ 1%				1478.51
	Total A				149329.75
	ITC @6% of A				8959.79
	Total				158289.54
	Overhead and Profits @ 15%				23743.43
	Total				182032.97
	Say				182033.00

16.26.8 Double skin AHU Units of 6 row cooling coil of 15300 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3085	Basic Price	each	1	161804.41	161804.41
	Add for cartage etc. @ 1%				1618.04
	Total A				163422.46
	ITC @6% of A				9805.35
	Total				173227.80
	Overhead and Profits @ 15%				25984.17
	Total				199211.97
	Say				199212.00

16.26.9 Double skin AHU Units of 6 row cooling coil of 17000 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3086	Basic Price	each	1	175757.59	175757.59
	Add for cartage etc. @ 1%				1757.58
	Total A				177515.16
	ITC @6% of A				10650.91
	Total				188166.07
	Overhead and Profits @ 15%				28224.91
	Total				216390.98
	Say				216391.00

16.26.10 Double skin AHU Units of 6 row cooling coil of 18700 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3087	Basic Price	each	1	193051.66	193051.66

Add for cartage etc. @ 1%	1930.52
Total A	194982.18
ITC @6% of A	11698.93
Total	206681.11
Overhead and Profits @ 15%	31002.17
Total	237683.28
Say	237683.00

16.26.11 Double skin AHU Units of 6 row cooling coil of 20400 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3088	Basic Price	each	1	210345.74	210345.74
	Add for cartage etc. @ 1%				2103.46
	Total A				212449.19
	ITC @6% of A				12746.95
	Total				225196.15
	Overhead and Profits @ 15%				33779.42
	Total				258975.57
	Say				258976.00

16.26.12 Double Skin AHU Units of 6 row cooling coil of 23800 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3142	Basic Price	each	1	253608.75	253608.75
	Total of materials				253608.75
	Cartage @ 1% of materials				2536.09
	TOTAL				256144.84
	ITC @ 6 % of A				15368.69
	TOTAL				271513.53
	Add 15 % Over Head & Contractor Profit				40727.03
	Cost for 1 Set				312240.56
	Say				312241.00

16.26.13 Double Skin AHU Units of 6 row cooling coil of 28900 CMH**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3143	Basic Price	each	1	267830.25	267830.25
	Total of materials				267830.25
	Cartage @ 1% of materials				2678.30
	TOTAL				270508.55
	ITC @ 6 % of A				16230.51
	TOTAL				286739.07

Add 15 % Over Head & Contractor Profit	43010.86
Cost for 1 Set	329749.93
Say	329750.00

16.26.14 Double Skin AHU Units of 6 row cooling coil of 34000 CMH**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3144	Basic Price	each	1	296847.00	296847.00
Total of materials					296847.00
Cartage @ 1% of materials					2968.47
TOTAL					299815.47
ITC @ 6 % of A					17988.93
TOTAL					317804.40
Add 15 % Over Head & Contractor Profit					47670.66
Cost for 1 Set					365475.06
Say					365475.00

16.26.15 Double Skin AHU Units of 6 row cooling coil of 39100 CMH**Details of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3145	Basic Price	each	1	340181.25	340181.25
Total of materials					340181.25
Cartage @ 1% of materials					3401.81
TOTAL					343583.06
ITC @ 6 % of A					20614.98
TOTAL					364198.05
Add 15 % Over Head & Contractor Profit					54629.71
Cost for 1 Set					418827.75
Say					418828.00

16.27 Supply, Installation, Testing and commissioning of factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 4 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of efficiency class IE3 suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply suitably designed for variable frequency drive applications, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.) and industrial type thermometers (2 nos.) at the inlet and outlet of

coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.

16.27.1 Double skin AHU Units of 4 row cooling coil of 4300 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3089	Basic Price	each	1	55419.65	55419.65
	Add for cartage etc. @ 1%				554.20
	Total A				55973.85
	ITC @6% of A				3358.43
	Total				59332.28
	Overhead and Profits @ 15%				8899.84
	Total				68232.12
	Say				68232.00

16.27.2 Double skin AHU Units of 4 row cooling coil of 5100 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3090	Basic Price	each	1	65049.30	65049.30
	Add for cartage etc. @ 1%				650.49
	Total A				65699.80
	ITC @6% of A				3941.99
	Total				69641.79
	Overhead and Profits @ 15%				10446.27
	Total				80088.05
	Say				80088.00

16.27.3 Double skin AHU Units of 4 row cooling coil of 6800 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3091	Basic Price	each	1	72582.71	72582.71
	Add for cartage etc. @ 1%				725.83
	Total A				73308.54
	ITC @6% of A				4398.51
	Total				77707.05
	Overhead and Profits @ 15%				11656.06
	Total				89363.10
	Say				89363.00

16.27.4 Double skin AHU Units of 4 row cooling coil of 8500 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3092	Basic Price	each	1	89811.28	89811.28
	Add for cartage etc. @ 1%				898.11

Total A	90709.39
ITC @6% of A	5442.56
Total	96151.95
Overhead and Profits @ 15%	14422.79
Total	110574.74
Say	110575.00

16.27.5 Double skin AHU Units of 4 row cooling coil of 10200 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3093	Basic Price	each	1	105140.11	105140.11
	Add for cartage etc. @ 1%				1051.40
	Total A				106191.52
	ITC @6% of A				6371.49
	Total				112563.01
	Overhead and Profits @ 15%				16884.45
	Total				129447.46
	Say				129447.00

16.27.6 Double skin AHU Units of 4 row cooling coil of 11900 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3094	Basic Price	each	1	117619.36	117619.36
	Add for cartage etc. @ 1%				1176.19
	Total A				118795.56
	ITC @6% of A				7127.73
	Total				125923.29
	Overhead and Profits @ 15%				18888.49
	Total				144811.78
	Say				144812.00

16.27.7 Double skin AHU Units of 4 row cooling coil of 13600 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3095	Basic Price	each	1	130098.61	130098.61
	Add for cartage etc. @ 1%				1300.99
	Total A				131399.59
	ITC @6% of A				7883.98
	Total				139283.57
	Overhead and Profits @ 15%				20892.54
	Total				160176.11
	Say				160176.00

16.27.8 Double skin AHU Units of 4 row cooling coil of 15300 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3096	Basic Price	each	1	141791.76	141791.76
	Add for cartage etc. @ 1%				1417.92
	Total A				143209.68
	ITC @6% of A				8592.58
	Total				151802.26
	Overhead and Profits @ 15%				22770.34
	Total				174572.60
	Say				174573.00

16.27.9 Double skin AHU Units of 4 row cooling coil of 17000 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3097	Basic Price	each	1	153484.91	153484.91
	Add for cartage etc. @ 1%				1534.85
	Total A				155019.76
	ITC @6% of A				9301.19
	Total				164320.95
	Overhead and Profits @ 15%				24648.14
	Total				188969.09
	Say				188969.00

16.27.10 Double skin AHU Units of 4 row cooling coil of 18700 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3098	Basic Price	each	1	166389.96	166389.96
	Add for cartage etc. @ 1%				1663.90
	Total A				168053.86
	ITC @6% of A				10083.23
	Total				178137.09
	Overhead and Profits @ 15%				26720.56
	Total				204857.66
	Say				204858.00

16.27.11 Double skin AHU Units of 4 row cooling coil of 20400 CMH

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3099	Basic Price	each	1	183684.04	183684.04
	Add for cartage etc. @ 1%				1836.84
	Total A				185520.88
	ITC @6% of A				11131.25
	Total				196652.13

Overhead and Profits @ 15%	29497.82
Total	226149.95
Say	226150.00

16.27.12 Double Skin AHU Units of 4 row cooling coil of 23800 CMH**Detail of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3162	Basic Price	each	1	192139.50	192139.50
Total of materials					192139.50
Cartage @ 1% of materials					1921.40
TOTAL					194060.90
ITC @ 6 % of A					11643.65
TOTAL					205704.55
Add 15 % Over Head & Contractor Profit					30855.68
Cost for 1 Set					236560.23
Say					236560.00

16.27.13 Double Skin AHU Units of 4 row cooling coil of 28900 CMH**Detail of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3163	Basic Price	each	1	245208.75	245208.75
Total of materials					245208.75
Cartage @ 1% of materials					2452.09
TOTAL					247660.84
ITC @ 6 % of A					14859.65
TOTAL					262520.49
Add 15 % Over Head & Contractor Profit					39378.07
Cost for 1 Set					301898.56
Say					301899.00

16.27.14 Double Skin AHU Units of 4 row cooling coil of 34000 CMH**Detail of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
A(MATERIALS)					
3164	Basic Price	each	1	271743.75	271743.75
Total of materials					271743.75
Cartage @ 1% of materials					2717.44
TOTAL					274461.19
ITC @ 6 % of A					16467.67
TOTAL					290928.86
Add 15 % Over Head & Contractor Profit					43639.33

Cost for 1 Set	334568.19
Say	334568.00

16.27.15 Double Skin AHU Units of 4 row cooling coil of 39100 CMH**Detail of cost for 1 Set**

ICD No.	Description	Unit	Qty	Rate	Amount ₹
	A(MATERIALS)				
3165	Basic Price	each	1	311355	311355.00
	Total of materials				311355.00
	Cartage @ 1% of materials				3113.55
	TOTAL				314468.55
	ITC @ 6 % of A				18868.11
	TOTAL				333336.66
	Add 15 % Over Head & Contractor Profit				50000.50
	Cost for 1 Set				383337.16
	Say				383337.00

BASIC RATES OF LABOUR & HIRE CHARGES

Code No.	Description	Unit	Rate ₹
1001	Wireman	day	447
1002	Cable jointer	day	447
1003	Lineman	day	447
1004	Fitter, Grade 1	day	447
1005	Fitter, Grade 2	day	407
1006	Painter	day	407
1007	Khallasi	day	368
1008	Carpenter, Grade 1	day	447
1009	Blacksmith, Grade 2	day	407
1010	Mason, Grade 2	day	407
1011	Stone Chiseler	day	407
1012	Beldar/ coolie	day	368
1013	Bhisti	day	368
1014	Excavator	day	368
1015	Stone Breaker	day	407
1016	Mate	day	368
1081	Hire charges for 5 ton truck	day	2200
1082	Hire charges for compressor and spray gun	day	350
1083	Drilling of 46 Nos. 12 mm dia holes on G.I. pipe	L.S.	300
1084	Drilling holes	each	6
1085	Solder jointing	each	12
1086	Welding charges	mm	0.5
1087	Welder	day	447

- Note :**
- 1) Labour rates are exclusive of contractor's profit & overheads and are inclusive of days for weekly day of rest.
 - 2) Hire Charges: These basic charges include cost of services of operating staff and supply of lubricating oil and diesel also etc.

BASIC RATES OF MATERIALS

Note : 1) These rates are exclusive of contractor's profit & overheads and carriage but include octroi, royalty, excise duty (ED), sales tax (VAT) etc.

Code No.	Description	Unit	Rate ₹
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	11.10
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	17.84
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	26.18
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	38.87
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	66.43
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	meter	102.36
1108	16/0.20 mm (0.5 sq.mm) twin core FRLS PVC sheathed, flat flexible copper cable	meter	11.52
1109	16/0.20 mm (0.5 sq.mm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	meter	11.52
1110	32/0.20 mm (1.0 sq.mm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	meter	19.08
1111	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	meter	4.71
1112	2 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	meter	7.94
1113	4 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	meter	15.30
1114	Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath	meter	15.67
CONDUIT (STEEL & PVC) AND ACCESSORIES			
1201	20 mm dia. ISI marked, steel conduit	meter	60.01
1202	25 mm dia. ISI marked, steel conduit	meter	75.60
1203	32 mm dia. ISI marked, steel conduit	meter	113.40
1204	40 mm dia. ISI marked, steel conduit	meter	184.28
1205	50 mm dia. ISI marked, steel conduit	meter	259.88
1206	20 mm inspection/ solid bends	each	7.61

Code No.	Description	Unit	Rate ₹
1207	25 mm inspection/ solid bends	each	13.39
1208	32 mm inspection/ solid bends	each	25.20
1209	40 mm inspection/ solid bends	each	34.13
1210	50 mm inspection/ solid bends	each	49.88
1211	20 mm sockets	each	6.93
1212	25 mm sockets	each	7.56
1213	32 mm sockets	each	9.77
1214	40 mm sockets	each	13.86
1215	50 mm sockets	each	13.86
1216	20 mm junction box, one way	each	17.86
1217	20 mm junction box, two way	each	17.86
1218	20 mm iron staples/ saddles/ screws	each	1.60
1219	25 mm iron staples/ saddles/ screws	each	2.19
1220	32 mm iron staples/ saddles/ screws	each	3.34
1221	40 mm iron staples/ saddles/ screws	each	4.31
1222	50 mm iron staples/ saddles/ screws	each	5.71
1224	20 mm dia. ISI marked, PVC conduit	meter	11.81
1225	25 mm dia. ISI marked, PVC conduit	meter	20.32
1226	32 mm dia. ISI marked, PVC conduit	meter	33.59
1227	40 mm dia. ISI marked, PVC conduit	meter	47.37
1228	50 mm dia. ISI marked, PVC conduit	meter	71.35
1229	20 mm PVC bends	each	5.65
1230	25 mm PVC bends	each	7.70
1231	32 mm PVC bends	each	13.16
1232	40 mm PVC bends	each	20.98
1233	50 mm PVC bends	each	34.07
1234	20 mm PVC couplers	each	3.50
1235	25 mm PVC couplers	each	5.24
1236	32 mm PVC couplers	each	8.55
1237	40 mm PVC couplers	each	10.44
1238	50 mm PVC couplers	each	13.06
1239	20 mm PVC junction box, one way	each	15.45
1240	20 mm PVC junction box, two way	each	15.99
1241	75 mm X 75 mm X 50 mm PVC box	each	19.00
Metal Boxes			
1300	Modular GI box for 2 module	each	28.00

Code No.	Description	Unit	Rate ₹
1301	Modular GI box for 3 module	each	29.60
1302	Modular GI box for 4 module	each	38.40
1303	Modular GI box for 6 module	each	62.00
1304	Modular GI box for 8 module	each	74.00
1305	Modular GI box for 12 module	each	102.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	20.00
1307	100 mm X 100 mm X 60 mm deep metal box	each	30.71
1308	150 mm X 75 mm X 60 mm deep metal box	each	32.55
1309	150 mm X 150 mm X 60 mm deep metal box	each	46.68
1310	180 mm X 100 mm X 60 mm deep metal box	each	39.31
1311	200 mm X 125 mm X 60 mm deep metal box	each	49.00
1312	200 mm X 150 mm X 60 mm deep metal box	each	61.00
1313	200 mm X 250 mm X 60 mm deep metal box	each	79.00
1314	200 mm X 300 mm X 60 mm deep metal box	each	110.00
1315	250 mm X 300 mm X 60 mm deep metal box	each	122.00
1316	200 mm X 150 mm X 75 mm deep metal box	each	67.00
1317	200 mm X 250 mm X 75 mm deep metal box	each	92.00
1318	200 mm X 150 mm X 100 mm deep metal box	each	81.00
1319	200 mm X 250 mm X 100 mm deep metal box	each	104.00
1320	200 mm X 300 mm X 100 mm deep metal box	each	122.00
1321	250 mm X 300 mm X 100 mm deep metal box	each	153.00
WIRING SWITCHES AND ACCESSORIES			
1322	3 mm thick phenolic laminated sheet	sq.cm	0.10
1401	Ceiling rose, 3 pin, 5 A ISI marked	each	14.40
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	48.00
1403	S.P. 5/6 A, two way modular switch, ISI marked	each	60.80
1404	S.P. 15/16 A, one way modular switch, ISI marked	each	73.60
1405	3 pin 5/6 A modular socket outlet, ISI marked	each	53.60
1406	6 pin 15/16 A modular socket outlet, ISI marked	each	107.60
1407	Modular bell push, ISI marked	each	73.60
1408	Stepped type Modular Fan regulator (2 module)	each	216.00
1409	Telephone Socket outlet modular type	each	58.50
1410	T.V. Socket outlet modular type	each	59.20
1411	Modular blanking plate	each	12.80
1412	6 pin 25 A modular type socket ISI Marked	Each	167.00
1420	Modular base & cover plate for 1 module	each	38.80

Code No.	Description	Unit	Rate ₹
1421	Modular base & cover plate for 2 module	each	39.60
1422	Modular base & cover plate for 3 module	each	46.40
1423	Modular base & cover plate for 4 module	each	54.80
1424	Modular base & cover plate for 6 module	each	76.40
1425	Modular base & cover plate for 8 module	each	97.60
1426	Modular base & cover plate for 12 module	each	110.40
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	13.30
1432	S.P. 5/6 A, two way switch, piano type ISI marked	each	17.37
1433	S.P. 15/16 A, one way switch, piano type ISI marked	each	40.00
1434	3 pin 5/6 A socket outlet, piano type ISI marked	each	20.26
1435	6 pin 15/16 & 5/6 A socket outlet, piano type ISI marked	each	50.00
1436	Bell push, piano type	each	15.91
1437	Telephone Socket outlet piano type	each	23.15
1438	T.V. Socket outlet piano type	each	17.37
1441	Brass pendant holder	each	28.00
1442	Brass batten/ angle holder	each	31.00
1443	Brass bracket holder 16 mm	each	38.00
1444	Call bell/ buzzer, single phase	each	35.38
1445	PIR Occupancy sensor	each	2587.50
1446	PIR Occupancy sensor With Day light dimming	each	3684.37
1447	Microwave occupancy Sensor	each	5090.62
1448	Astronomical time switch suitable for 1 output per phase and suitable for single phase supply	each	2047.50
1449	Astronomical time switch suitable for 2 output per phase and suitable for single phase supply	each	4426.50
1450	Astronomical time switch suitable for 3 output (1 output per phase) and suitable for three phase supply	each	5222.75
1451	UTP 4 Pair CAT 6 LAN Cable	meter	20.77
1452	PVC Batten/ Angle Holder	Each	20.00
RISING MAINS BUS TRUNKING AND OVER HEAD BUS-BAR			
1501	200 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	4213.64
1502	300 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	4405.17
1503	400 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	5458.57
1504	600 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	6128.92

Code No.	Description	Unit	Rate ₹
1505	800 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	7421.75
1511	16 A, TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	7524.35
1512	16 A, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	14136.66
1513	16 A, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	20064.95
1514	16 A, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	27817.31
1515	32 A, TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	7752.37
1516	32 A, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	15960.76
1517	32 A, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	20976.99
1518	32 A, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	29185.38
1519	63 A, TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	8846.82
1520	63 A, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	15048.72
1521	63 A, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	16234.37
1522	63 A, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	28000.00
1526	200 A, TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	12586.19
1527	300 A, TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	13680.65
1528	400 A, TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	15048.72
1529	600 A, TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	16234.37
1530	800 A, TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	18058.46
1531	800 A, TPN, bus trunking with aluminium busbars	meter	7068.34

Code No.	Description	Unit	Rate ₹
1532	1000 A, TPN, bus trunking with aluminium busbars	meter	8390.80
1533	1250 A, TPN, bus trunking with aluminium busbars	meter	10762.11
1534	1400 A, TPN, bus trunking with aluminium busbars	meter	13498.24
1535	1600 A, TPN, bus trunking with aluminium busbars	meter	13498.24
1536	200 A, TPN, overhead busbars with aluminium busbars	meter	4013.00
1537	400 A, TPN, overhead busbars with aluminium busbars	meter	5198.64
1538	32 A, TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	4534.16
1539	63 A, TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	5081.38
1540	100 A, TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	5863.14
1541	16 A, TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	5016.24
1542	32 A, TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	5289.85
1543	63 A, TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	5928.28
1544	100 A, TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	6840.32
1545	200 A, TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	10762.11
1546	315 A, TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	No.	11400.54
1547	400 A, TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	No.	11856.56
1551	200 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	4407.53
1552	315 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	4772.54
1553	400 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	5304.11
1554	500 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	6105.88
1555	630 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	7302.78
1556	800 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	10135.13
1557	1000 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	11770.31

Code No.	Description	Unit	Rate ₹
1558	1250 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	14035.01
1559	200 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	4480.31
1560	315 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	4784.06
1561	400 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	5315.63
1562	500 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	6150.94
1563	630 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	7290.00
1564	800 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	9492.19
1565	1000 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	11010.94
1566	1250 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	12909.38
1567	200 A, TPN, End Feed Unit for compact rising mains including all accessories	each	3366.56
1568	315 A, TPN, End Feed Unit for compact rising mains including all accessories	each	3508.31
1569	400 A, TPN, End Feed Unit for compact rising mains including all accessories	each	4465.13
1570	500 A, TPN, End Feed Unit for compact rising mains including all accessories	each	4677.75
1571	630 A, TPN, End Feed Unit for compact rising mains including all accessories	each	5705.44
1572	800 A, TPN, End Feed Unit for compact rising mains including all accessories	each	6758.44
1573	1000 A, TPN, End Feed Unit for compact rising mains including all accessories	each	7583.63
1574	1250 A, TPN, End Feed Unit for compact rising mains including all accessories	each	8008.88
1575	125 A, TPN, TAP OFF Box for compact rising mains including all accessories	each	3898.13
1576	200 A, TPN, TAP OFF Box for compact rising mains including all accessories	each	4961.25
1577	315 A, TPN, TAP OFF Box for compact rising mains including all accessories	each	6378.75
1578	400 A, TPN, TAP OFF Box for compact rising mains including all accessories	each	6378.75

Code No.	Description	Unit	Rate ₹
1579	500 A, TPN, TAP OFF Box for compact rising mains including all accessories	each	9213.75
1580	630 A, TPN, TAP OFF Box for compact rising mains including all accessories	each	9213.00
Sandwich Rising Mains with Aluminium bus bar			
1581	400 A, I _{sc} = 25kA for 1 second	meter	7176.09
1582	500 A, I _{sc} = 30kA for 1 second	meter	7688.67
1583	630 A, I _{sc} = 50kA for 1 second	meter	8315.16
1584	800 A, I _{sc} = 50kA for 1 second	meter	9397.27
1585	1000 A, I _{sc} = 50kA for 1 second	meter	10542.40
1586	1250 A, I _{sc} = 50kA for 1 second	meter	11789.30
1587	1600 A, I _{sc} = 50kA for 1 second	meter	14352.19
1588	2000 A, I _{sc} = 50kA for 1 second	meter	17085.94
1589	2500 A, I _{sc} = 50kA for 1 second	meter	22063.64
1590	3200 A, I _{sc} = 50kA for 1 second	meter	24375.94
1591	4000 A, I _{sc} = 50kA for 1 second	meter	42522.34
SWITCH DISCONNECTOR SFU AND MCCB			
1601	32 A, TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1184.00
1602	63 A, TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1670.63
1603	100 A, TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	3621.38
1604	125 A, TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	4024.00
1605	160 A, TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	4816.00
1606	200 A, TPN switch fuse unit with ISI marked HRC fuses	each	5520.00
1607	315 A, TPN switch fuse unit with ISI marked HRC fuses	each	8872.88
1608	400 A, TPN switch fuse unit with ISI marked HRC fuses	each	10854.00
1610	3 pole MCCB, 100A, 16kA	each	2656.00
1611	3 pole MCCB, 125A, 16kA	each	2979.90
1612	3 pole MCCB, 150A, 16kA	each	3395.70
1613	3 pole MCCB, 200A, 16kA	each	4617.90
1614	3 pole MCCB, 200A, 25kA	each	6709.50
1615	3 pole MCCB, 250A, 25kA	each	7934.85
1616	3 pole MCCB, 250A, 35kA	each	8605.80
1617	3 pole MCCB, 315A, 35kA	each	13321.35
1618	3 pole MCCB, 400A, 35kA	each	13321.35

Code No.	Description	Unit	Rate ₹
1619	3 pole MCCB, 500A, 35kA	each	15425.55
1620	3 pole MCCB, 630A, 50kA	each	17208.45
1621	3 pole MCCB, 800A, 50kA	each	21035.70
1622	4 pole MCCB, 100A, 30kA	each	4500.00
1623	4 pole MCCB, 125A, 36kA	each	4560.00
1624	4 pole MCCB, 200A, 36kA	each	11176.00
1625	4 pole MCCB, 250A, 36kA	each	12474.00
1626	4 pole MCCB, 250A, 50kA	each	11642.40
1627	4 pole MCCB, 400A, 50kA	each	16279.20
1628	4 pole MCCB, 630A, 50kA	each	20257.65
MCB'S, ISOLATORS, RCCB'S AND MCB DB'S			
1705	25 A modular SPMCB, 'C' curve	Each	123.50
1706	6 A to 32 A ratings, SP MCB, "C" curve, 10 kA breaking capacity	each	117.00
1707	6 A to 32 A ratings, SPN MCB, "C" curve, 10 kA breaking capacity	each	351.00
1708	6 A to 32 A ratings, DP MCB, "C" curve, 10 kA breaking capacity	each	366.00
1709	6 A to 32 A ratings, TP MCB, "C" curve, 10 kA breaking capacity	each	570.00
1710	6 A to 32 A ratings, TPN MCB, "C" curve, 10 kA breaking capacity	each	735.00
1711	Single pole, blanking plate	each	5.00
1712	40 A, 2 pole isolator	each	159.00
1713	63 A, 2 pole isolator	each	186.00
1714	40 A, 4 pole isolator	each	510.00
1715	63 A, 4 pole isolator	each	519.00
1716	100 A, 4 pole isolator	each	675.00
1717	25 A rating, 2 pole RCCB, 30mA	each	1380.00
1718	40 A rating, 2 pole RCCB, 30mA	each	1440.00
1719	63 A rating, 2 pole RCCB, 30mA	each	1890.00
1720	25 A rating, 4 pole RCCB, 30mA	each	1740.00
1721	40 A rating, 4 pole RCCB, 30mA	each	1770.00
1722	63 A rating, 4 pole RCCB, 30mA	each	1917.00
1730	20 A SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	495.00
1731	20 A, TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	535.50
1732	30 A, TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1425.00
1738	6 way, SPN, double door, MCB DB	each	630.00

Code No.	Description	Unit	Rate ₹
1739	8 way, SPN, double door, MCB DB	each	732.00
1740	12 way, SPN, double door, MCB DB	each	810.00
1741	14 way, SPN, double door, MCB DB	each	993.00
1742	Sheet steel DP MCB enclosure	each	92.77
1743	Sheet steel TP MCB enclosure	each	105.50
1754	4 way (4+12), TPN, MCB DB, double door, horizontal type	each	1679.40
1755	6 way (4+18), TPN, MCB DB, double door, horizontal type	each	2076.00
1756	8 way (4+24), TPN, MCB DB, double door, horizontal type	each	2517.00
1760	4 way (4+12), TPN, vertical type, MCB DB, double door	each	3662.51
1761	8 way (4+24), TPN, vertical type, MCB DB, double door	each	4663.02
1762	12 way (4+36), TPN, vertical type, MCB DB, double door	each	5975.82
CABLE END BOX			
1801	Cable End Boxes for 6 Way SPN DD DB	each	215.40
1802	Cable End Boxes for 8 Way SPN DD DB	each	262.80
1803	Cable End Boxes for 10 Way SPN DD DB	each	252.00
1804	Cable End Boxes for 14 Way SPN DD DB	each	307.20
1805	Cable End Boxes for 4 Way TPN DD DB	each	390.60
1806	Cable End Boxes for 6 Way TPN DD DB	each	411.60
1807	Cable End Boxes for 8 Way TPN DD DB	each	513.60
1808	Cable End Boxes for Vertical TPN DD DB	each	260.00
BRASS COMPRESSION GLANDS			
2101	Brass compression gland (19 mm) for 2 X 6 sq. mm 1.1 kV grade cable	set	51.19
2102	Brass compression gland (19 mm) for 2 X 10 sq. mm 1.1 kV grade cable	set	51.19
2103	Brass compression gland for (22 mm) 2 X 16 sq. mm 1.1 kV grade cable	set	60.43
2104	Brass compression gland for (22 mm) 2 X 25 sq. mm 1.1 kV grade cable	set	60.43
2105	Brass compression gland for (25 mm) 2 X 35 sq. mm 1.1 kV grade cable	set	86.21
2106	Brass compression gland for (28 mm) 2 X 50 sq. mm 1.1 kV grade cable	set	128.68
2107	Brass compression gland for (22 mm) 3 X 10 sq. mm 1.1 kV grade cable	set	60.43
2108	Brass compression gland for (25 mm) 3 X 16 sq. mm 1.1 kV grade cable	set	86.21

Code No.	Description	Unit	Rate ₹
2109	Brass compression gland for (25 mm) 3 X 25 sq. mm 1.1 kV grade cable	set	86.21
2110	Brass compression gland for (28 mm) 3 X 35 sq. mm 1.1 kV grade cable	set	128.68
2111	Brass compression gland for (32 mm) 3 X 50 sq. mm 1.1 kV grade cable	set	130.62
2112	Brass compression gland for (35 mm) 3 X 70 sq. mm 1.1 kV grade cable	set	186.27
2113	Brass compression gland for (38 mm) 3 X 95 sq. mm 1.1 kV grade cable	set	210.79
2114	Brass compression gland for (45 mm) 3 X 120 sq. mm 1.1 kV grade cable	set	248.90
2115	Brass compression gland for (50 mm) 3 X 150 sq. mm 1.1 kV grade cable	set	314.74
2116	Brass compression gland for (57 mm) 3 X 185 sq. mm 1.1 kV grade cable	set	450.45
2117	Brass compression gland for (62 mm) 3 X 225 sq. mm 1.1 kV grade cable	set	556.71
2118	Brass compression gland for (62 mm) 3 X 240 sq. mm 1.1 kV grade cable	set	556.71
2119	Brass compression gland for (70 mm) 3 X 300 sq. mm 1.1 kV grade cable	set	604.38
2120	Brass compression gland for (28 mm) 3½ X 25 sq. mm 1.1 kV grade cable	set	128.68
2121	Brass compression gland for (32 mm) 3½ X 35 sq. mm 1.1 kV grade cable	set	130.62
2122	Brass compression gland for (35 mm) 3½ X 50 sq. mm 1.1 kV grade cable	set	186.27
2123	Brass compression gland for (38 mm) 3½ X 70 sq. mm 1.1 kV grade cable	set	210.79
2124	Brass compression gland for (45 mm) 3½ X 95 sq. mm 1.1 kV grade cable	set	248.90
2125	Brass compression gland for (45 mm) 3½ X 120 sq. mm 1.1 kV grade cable	set	248.90
2126	Brass compression gland for (50 mm) 3½ X 150 sq. mm 1.1 kV grade cable	set	314.74
2127	Brass compression gland for (57 mm) 3½ X 185 sq. mm 1.1 kV grade cable	set	450.45
2128	Brass compression gland for (62 mm) 3½ X 225 sq. mm 1.1 kV grade cable	set	556.71
2129	Brass compression gland for (62 mm) 3½ X 240 sq. mm 1.1 kV grade cable	set	556.71

Code No.	Description	Unit	Rate ₹
2130	Brass compression gland for (70 mm) 3½ X 300 sq. mm 1.1 kV grade cable	set	604.38
2131	Brass compression gland for (82 mm) 3½ X 400 sq. mm 1.1 kV grade cable	set	760.31
2132	Brass compression gland for (25 mm) 4 X 10 sq. mm 1.1 kV grade cable	set	86.21
2133	Brass compression gland for (28 mm) 4 X 16 sq. mm 1.1 kV grade cable	set	128.68
2134	Brass compression gland for (28 mm) 4 X 25 sq. mm 1.1 kV grade cable	set	128.68
2135	Brass compression gland for (32 mm) 4 X 35 sq. mm 1.1 kV grade cable	set	130.62
2136	Brass compression gland for (35 mm) 4 X 50 sq. mm 1.1 kV grade cable	set	186.27
ALUMINIUM LUGS			
2201	Aluminium lugs for 6 sq. mm cable	each	1.59
2202	Aluminium lugs for 10 sq. mm cable	each	2.06
2203	Aluminium lugs for 16 sq. mm cable	each	2.47
2204	Aluminium lugs for 25 sq. mm cable	each	3.10
2205	Aluminium lugs for 35 sq. mm cable	each	4.10
2206	Aluminium lugs for 50 sq. mm cable	each	6.21
2207	Aluminium lugs for 70 sq. mm cable	each	9.30
2208	Aluminium lugs for 95 sq. mm cable	each	10.27
2209	Aluminium lugs for 120 sq. mm cable	each	14.38
2210	Aluminium lugs for 150 sq. mm cable	each	18.61
2211	Aluminium lugs for 185 sq. mm cable	each	23.27
2212	Aluminium lugs for 225 sq. mm cable	each	32.55
2213	Aluminium lugs for 240 sq. mm cable	each	39.75
2214	Aluminium lugs for 300 sq. mm cable	each	55.83
2215	Aluminium lugs for 400 sq. mm cable	each	80.68
MV CABLE JOINTING KITS			
2300	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 16 sq. mm 1.1 kV grade cable	set	329.18
2301	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 25 sq. mm 1.1 kV grade cable	set	369.08
2302	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 35 sq. mm 1.1 kV grade cable	set	369.08
2303	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 50 sq. mm 1.1 kV grade cable	set	369.08

Code No.	Description	Unit	Rate ₹
2304	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 16 sq. mm 1.1 kV grade cable	set	369.08
2305	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 25 sq. mm 1.1 kV grade cable	set	369.08
2306	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 35 sq. mm 1.1 kV grade cable	set	369.08
2307	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 50 sq. mm 1.1 kV grade cable	set	405.83
2308	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 70 sq. mm 1.1 kV grade cable	set	405.83
2309	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 95 sq. mm 1.1 kV grade cable	set	462.00
2310	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 120 sq. mm 1.1 kV grade cable	set	462.00
2311	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 150 sq. mm 1.1 kV grade cable	set	462.00
2312	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 185 sq. mm 1.1 kV grade cable	set	697.73
2313	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 225 sq. mm 1.1 kV grade cable	set	697.73
2314	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 240 sq. mm 1.1 kV grade cable	set	844.20
2315	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 300 sq. mm 1.1 kV grade cable	set	844.20
2316	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 25 sq. mm 1.1 kV grade cable	set	369.08
2217	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 35 sq. mm 1.1 kV grade cable	set	405.83
2318	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 50 sq. mm 1.1 kV grade cable	set	405.83
2319	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 70 sq. mm 1.1 kV grade cable	set	462.00
2320	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 95 sq. mm 1.1 kV grade cable	set	462.00
2321	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 120 sq. mm 1.1 kV grade cable	set	462.00
2322	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 150 sq. mm 1.1 kV grade cable	set	697.73
2323	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 185 sq. mm 1.1 kV grade cable	set	697.73
2324	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 225 sq. mm 1.1 kV grade cable	set	844.20

Code No.	Description	Unit	Rate ₹
2325	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 240 sq. mm 1.1 kV grade cable	set	844.20
2326	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 300 sq. mm 1.1 kV grade cable	set	844.20
2327	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 400 sq. mm 1.1 kV grade cable	set	1016.40
2328	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 16 sq. mm 1.1 kV grade cable	set	369.08
2329	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 25 sq. mm 1.1 kV grade cable	set	369.08
2330	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 35 sq. mm 1.1 kV grade cable	set	405.83
2331	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 50 sq. mm 1.1 kV grade cable	set	405.83
2332	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 16 sq. mm 1.1 kV grade cable	set	870.45
2333	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 25 sq. mm 1.1 kV grade cable	set	870.45
2334	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 35 sq. mm 1.1 kV grade cable	set	870.45
2335	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 50 sq. mm 1.1 kV grade cable	set	1016.40
2336	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 16 sq. mm 1.1 kV grade cable	set	1016.40
2337	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 25 sq. mm 1.1 kV grade cable	set	870.45
2338	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 35 sq. mm 1.1 kV grade cable	set	870.45
2339	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 50 sq. mm 1.1 kV grade cable	set	1016.40
2340	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 70 sq. mm 1.1 kV grade cable	set	1215.90
2341	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 95 sq. mm 1.1 kV grade cable	set	1248.98
2342	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 120 sq. mm 1.1 kV grade cable	set	1428.53
2343	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 150 sq. mm 1.1 kV grade cable	set	1428.53
2344	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 185 sq. mm 1.1 kV grade cable	set	1740.38
2345	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 225 sq. mm 1.1 kV grade cable	set	1999.73

Code No.	Description	Unit	Rate ₹
2346	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 240 sq. mm 1.1 kV grade cable	set	1999.73
2347	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 300 sq. mm 1.1 kV grade cable	set	2517.38
2348	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 25 sq. mm 1.1 kV grade cable	set	1016.40
2349	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 35 sq. mm 1.1 kV grade cable	set	1016.40
2350	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 50 sq. mm 1.1 kV grade cable	set	1215.90
2351	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 70 sq. mm 1.1 kV grade cable	set	1227.98
2352	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 95 sq. mm 1.1 kV grade cable	set	1428.53
2353	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 120 sq. mm 1.1 kV grade cable	set	1740.38
2354	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 150 sq. mm 1.1 kV grade cable	set	1740.38
2355	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 185 sq. mm 1.1 kV grade cable	set	1999.73
2356	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 225 sq. mm 1.1 kV grade cable	set	2039.63
2357	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 240 sq. mm 1.1 kV grade cable	set	2517.38
2358	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 300 sq. mm 1.1 kV grade cable	set	3015.60
2359	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 400 sq. mm 1.1 kV grade cable	set	1619.10
2360	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 16 sq. mm 1.1 kV grade cable	set	870.45
2361	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 25 sq. mm 1.1 kV grade cable	set	1016.40
2362	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 35 sq. mm 1.1 kV grade cable	set	1016.40
2363	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 50 sq. mm 1.1 kV grade cable	set	1215.90
2364	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 16 sq. mm 1.1 kV grade cable	set	870.45
2365	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 25 sq. mm 1.1 kV grade cable	set	870.45
2366	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 35 sq. mm 1.1 kV grade cable	set	870.45

Code No.	Description	Unit	Rate ₹
2367	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 50 sq. mm 1.1 kV grade cable	set	1016.40
2368	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 16 sq. mm 1.1 kV grade cable	set	870.45
2369	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 25 sq. mm 1.1 kV grade cable	set	870.45
2370	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 35 sq. mm 1.1 kV grade cable	set	1016.40
2371	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 50 sq. mm 1.1 kV grade cable	set	1016.40
2372	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 70 sq. mm 1.1 kV grade cable	set	1248.98
2373	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 95 sq. mm 1.1 kV grade cable	set	1428.53
2374	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 120 sq. mm 1.1 kV grade cable	set	1428.53
2375	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 150 sq. mm 1.1 kV grade cable	set	1428.53
2376	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 185 sq. mm 1.1 kV grade cable	set	1740.38
2377	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 225 sq. mm 1.1 kV grade cable	set	1999.73
2378	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 240 sq. mm 1.1 kV grade cable	set	2039.63
2379	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 300 sq. mm 1.1 kV grade cable	set	2517.38
2380	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 25 sq. mm 1.1 kV grade cable	set	1016.40
2381	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 35 sq. mm 1.1 kV grade cable	set	1016.40
2382	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 50 sq. mm 1.1 kV grade cable	set	1215.90
2383	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 70 sq. mm 1.1 kV grade cable	set	1248.98
2384	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 95 sq. mm 1.1 kV grade cable	set	1428.53
2385	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 120 sq. mm 1.1 kV grade cable	set	1740.38
2386	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 150 sq. mm 1.1 kV grade cable	set	1740.38
2387	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 185 sq. mm 1.1 kV grade cable	set	1999.73

Code No.	Description	Unit	Rate ₹
2388	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 225 sq. mm 1.1 kV grade cable	set	1999.73
2389	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 240 sq. mm 1.1 kV grade cable	set	2039.63
2390	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 300 sq. mm 1.1 kV grade cable	set	2517.38
2391	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 400 sq. mm 1.1 kV grade cable	set	3719.10
2392	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 16 sq. mm 1.1 kV grade cable	set	870.45
2393	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 25 sq. mm 1.1 kV grade cable	set	1016.40
2394	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 35 sq. mm 1.1 kV grade cable	set	1016.40
2395	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 50 sq. mm 1.1 kV grade cable	set	1215.90
11 kV & 33 kV CABLE JOINTING KITS			
2413	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm	set	524.48
2414	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm	set	524.48
2415	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm	set	765.45
2416	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm	set	793.80
2417	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm	set	1795.50
2418	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm	set	1819.13
2419	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm	set	2060.10
2420	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm	set	2060.10
2421	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 70 sq. mm	set	1408.05
2422	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 120 sq. mm	set	1696.28
2423	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 240 sq. mm	set	2683.80
2424	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 300 sq. mm	set	3179.93

Code No.	Description	Unit	Rate ₹
2437	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm	set	3614.63
2438	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm	set	3614.63
2439	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm	set	4752.56
2440	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm	set	4752.56
2441	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm	set	6470.63
2442	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm	set	6470.63
2443	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm	set	7340.81
2444	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm	set	7340.81
2445	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 70 sq. mm	set	7318.50
2446	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 120 sq. mm	set	7925.40
2447	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 240 sq. mm	set	8353.80
2448	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 300 sq. mm	set	8353.80
2528	Indoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 70 sq. mm	set	8523.38
2529	Indoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 120 sq. mm	set	11651.59
2530	Indoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 240 sq. mm	set	12553.01
2531	Outdoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 70 sq. mm	set	12923.40
2532	Outdoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 120 sq. mm	set	15520.58
2533	Outdoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 240 sq. mm	set	17466.23
2534	Straight through heat shrinkable cable jointing kit with ferrules for 33 kV grade XLPE cable for 3 core 70 sq. mm	set	20527.50
2535	Straight through heat shrinkable cable jointing kit with ferrules for 33 kV grade XLPE cable for 3 core 120 sq. mm	set	25967.29
2536	Straight through heat shrinkable cable jointing kit with ferrules for 33 kV grade XLPE cable for 3 core 240 sq. mm	set	36369.38

Code No.	Description	Unit	Rate ₹
OVER HEAD LINE ACCESSORIES			
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	540.00
2602	Stay wire (7/4.00 mm dia.)	kg	46.80
2603	Stay wire (7/3.15 mm dia.)	kg	46.80
2604	Turn buckle (20 mm X 60 cm)	each	198.00
2605	Strain insulator	each	27.00
2606	Bow tightner	each	19.80
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	36.45
2608	Shackle insulator (100 mm X 110 mm) with G.I. bolts and nuts	set	63.00
2609	Pin insulator (100 mm X 65 mm) with G.I. spindle and nuts	set	34.20
2610	Pin insulator (100 mm X 80 mm) with G.I. spindle and nuts	set	36.00
2611	MV horn gap lightning arrestor with pin insulator (100 mm X 65 mm), spindle and brass metal parts etc.	set	99.00
2615	15 A aerial fuse complete with porcelain tube as required	each	16.20
2616	30 A aerial fuse complete with porcelain tube as required	each	25.20
2618	Stay clamp	set	63.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	meter	211.50
2620	Angle iron bracket (50 mm X 50 mm X 6 mm) 65 cm long	each	139.50
2623	Eye hook	each	29.70
2624	Guy clamp	each	67.50
2635	D' iron clamp (with coach screws)	each	76.50
2643	Strain insulator 11 kV	each	23.00
2644	Strain insulator 33 kV	each	34.00
2645	11 kV pin insulator with pin washers and nuts	set	113.00
2646	11 kV disc insulator	set	506.00
2647	Galvanised insulator hardware fitting ball and socket type with strain clamps, bolts, nuts and washers	set	148.50
2648	33 kV pin insulator with pin washers and nuts	set	506.00
2649	Galvanised insulator hardware fitting ball and socket type with strain clamps, bolts, nuts and washers for 3 Nos. 11 kV disk insulator	set	433.80
2650	3 piece lightning arrestor set for 11 kV O.H. lines complete with G.I. clamps bolts and nuts with washers	set	1800.00
2651	Single piece lightning arrestor set for 33 kV O.H. lines complete with G.I. clamps bolts and nuts with washers	set	15750.00
2665	G.I. strap for shackle insulator	set	54.00

Code No.	Description	Unit	Rate ₹
CABLE TRAYS PRE PAINTED WITH POWDER COATING			
2701	MS perforated cable tray 100 X 50 X 1.6 mm	meter	140.63
2702	MS perforated cable tray 150 X 50 X 1.6 mm	meter	174.38
2703	MS perforated cable tray 225 X 50 X 1.6 mm	meter	227.25
2704	MS perforated cable tray 300 X 50 X 1.6 mm	meter	279.00
2705	MS perforated cable tray 375 X 50 X 2 mm	meter	401.63
2706	MS perforated cable tray 450 X 50 X 2 mm	meter	464.63
2707	MS perforated cable tray 600 X 50 X 2 mm	meter	590.63
2708	MS perforated cable tray 300 X 62.5 X 2 mm	meter	360.00
2709	MS perforated cable tray 375 X 62.5 X 2 mm	meter	421.88
2710	MS perforated cable tray 450 X 62.5 X 2 mm	meter	486.00
2711	MS perforated cable tray 600 X 62.5 X 2 mm	meter	613.13
2712	MS perforated cable tray 750 X 62.5 X 2 mm	meter	759.38
2713	MS perforated cable tray 900 X 62.5 X 2 mm	meter	888.75
2714	MS perforated cable tray 600 X 75 X 2 mm	meter	632.25
2715	MS perforated cable tray 750 X 75 X 2 mm	meter	781.88
2716	MS perforated cable tray 900 X 75 X 2 mm	meter	911.25
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	26.85
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	34.65
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	35.52
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	35.52
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	38.98
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	45.91
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	50.25
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	38.98
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	45.05
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	49.38
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	54.14
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	60.20
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	63.24
2733	MS perforated cable tray Bend 100 X 50 X 1.6 mm	each	354.38
2734	MS perforated cable tray Bend 150 X 50 X 1.6 mm	each	438.75
2735	MS perforated cable tray Bend 225 X 50 X 1.6 mm	each	568.13
2736	MS perforated cable tray Bend 300 X 50 X 1.6 mm	each	697.50
2737	MS perforated cable tray Bend 375 X 50 X 2 mm	each	1006.88
2738	MS perforated cable tray Bend 450 X 50 X 2 mm	each	1164.38

Code No.	Description	Unit	Rate ₹
2739	MS perforated cable tray Bend 600 X 50 X 2 mm	each	1479.38
2740	MS perforated cable tray Bend 300 X 62.5 X 2 mm	each	900.00
2741	MS perforated cable tray Bend 375 X 62.5 X 2 mm	each	1057.50
2742	MS perforated cable tray Bend 450 X 62.5 X 2 mm	each	1215.00
2743	MS perforated cable tray Bend 600 X 62.5 X 2 mm	each	1535.63
2744	MS perforated cable tray Bend 750 X 62.5 X 2 mm	each	1901.25
2745	MS perforated cable tray Bend 900 X 62.5 X 2 mm	each	2221.88
2746	MS perforated cable tray Bend 600 X 75 X 2 mm	each	1580.63
2747	MS perforated cable tray Bend 750 X 75 X 2 mm	each	1957.50
2748	MS perforated cable tray Bend 900 X 75 X 2 mm	each	2278.13
2749	MS perforated cable tray Reducer 100 X 50 X 1.6 mm	each	402.81
2750	MS perforated cable tray Reducer 150 X 50 X 1.6 mm	each	490.30
2751	MS perforated cable tray Reducer 225 X 50 X 1.6 mm	each	648.82
2752	MS perforated cable tray Reducer 300 X 50 X 1.6 mm	each	805.62
2753	MS perforated cable tray Reducer 375 X 50 X 2 mm	each	1024.77
2754	MS perforated cable tray Reducer 450 X 50 X 2 mm	each	1198.02
2755	MS perforated cable tray Reducer 600 X 50 X 2 mm	each	1491.69
2756	MS perforated cable tray Reducer 300 X 62.5 X 2 mm	each	918.23
2757	MS perforated cable tray Reducer 375 X 62.5 X 2 mm	each	1080.21
2758	MS perforated cable tray Reducer 450 X 62.5 X 2 mm	each	1243.94
2759	MS perforated cable tray Reducer 600 X 62.5 X 2 mm	each	1573.11
2760	MS perforated cable tray Reducer 750 X 62.5 X 2 mm	each	1868.82
2761	MS perforated cable tray Reducer 900 X 62.5 X 2 mm	each	2230.59
2762	MS perforated cable tray Reducer 600 X 75 X 2 mm	each	1626.82
2763	MS perforated cable tray Reducer 750 X 75 X 2 mm	each	1915.28
2764	MS perforated cable tray Reducer 900 X 75 X 2 mm	each	2284.30
2765	MS perforated cable tray Tee 100 X 50 X 1.6 mm	each	421.88
2766	MS perforated cable tray Tee 150 X 50 X 1.6 mm	each	523.13
2767	MS perforated cable tray Tee 225 X 50 X 1.6 mm	each	680.63
2768	MS perforated cable tray Tee 300 X 50 X 1.6 mm	each	838.13
2769	MS perforated cable tray Tee 375 X 50 X 2 mm	each	1203.75
2770	MS perforated cable tray Tee 450 X 50 X 2 mm	each	1395.00
2771	MS perforated cable tray Tee 600 X 50 X 2 mm	each	1771.88
2772	MS perforated cable tray Tee 300 X 62.5 X 2 mm	each	1080.00
2773	MS perforated cable tray Tee 375 X 62.5 X 2 mm	each	1265.63

Code No.	Description	Unit	Rate ₹
2774	MS perforated cable tray Tee 450 X 62.5 X 2 mm	each	1456.88
2775	MS perforated cable tray Tee 600 X 62.5 X 2 mm	each	1839.38
2776	MS perforated cable tray Tee 750 X 62.5 X 2 mm	each	2278.13
2777	MS perforated cable tray Tee 900 X 62.5 X 2 mm	each	2666.25
2778	MS perforated cable tray Tee 600 X 75 X 2 mm	each	1901.25
2779	MS perforated cable tray Tee 750 X 75 X 2 mm	each	2317.50
2780	MS perforated cable tray Tee 900 X 75 X 2 mm	each	2729.25
2781	MS perforated cable tray Cross member 100 X 50 X 1.6 mm	each	421.88
2782	MS perforated cable tray Cross member 150 X 50 X 1.6 mm	each	523.13
2783	MS perforated cable tray Cross member 225 X 50 X 1.6 mm	each	680.63
2784	MS perforated cable tray Cross member 300 X 50 X 1.6 mm	each	838.13
2785	MS perforated cable tray Cross member 375 X 50 X 2 mm	each	1203.75
2786	MS perforated cable tray Cross member 450 X 50 X 2 mm	each	1395.00
2787	MS perforated cable tray Cross member 600 X 50 X 2 mm	each	1771.88
2788	MS perforated cable tray Cross member 300 X 62.5 X 2 mm	each	1080.00
2789	MS perforated cable tray Cross member 375 X 62.5 X 2 mm	each	1265.63
2790	MS perforated cable tray Cross member 450 X 62.5 X 2 mm	each	1456.88
2791	MS perforated cable tray Cross member 600 X 62.5 X 2 mm	each	1839.38
2792	MS perforated cable tray Cross member 750 X 62.5 X 2 mm	each	2278.13
2793	MS perforated cable tray Cross member 900 X 62.5 X 2 mm	each	2666.25
2794	MS perforated cable tray Cross member 600 X 75 X 2 mm	each	1901.25
2795	MS perforated cable tray Cross member 750 X 75 X 2 mm	each	2317.50
2796	MS perforated cable tray Cross member 900 X 75 X 2 mm	each	2729.25
ANGLE/FLAT IRON AND STEEL SHEET			
2801	MS Suspender 6 mm dia 0.75 m long	each	21.00
2802	MS Suspender 8 mm dia 0.75 m long	each	25.52
2803	MS Suspender 10 mm dia 0.75 m long	each	35.91
2804	25 mm X 25 mm X 3 mm angle iron	kg	37.80
2805	35 mm X 35 mm X 4 mm angle iron	kg	37.80
2806	35 mm X 35 mm X 5 mm angle iron	kg	37.80
2807	50 mm X 50 mm X 6 mm angle iron	kg	37.80
2808	65 mm X 65 mm X 6 mm angle iron	kg	37.80
2809	20/25 mm X 3 mm flat iron	kg	37.80
2810	25 mm X 4 mm flat iron	kg	37.80
2811	25 mm X 6 mm flat iron	kg	37.80
2812	40 mm X 3 mm flat iron	kg	37.80

Code No.	Description	Unit	Rate ₹
2813	50 mm X 6 mm flat iron	kg	37.80
2814	50 mm X 8 mm flat iron	kg	37.80
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ meter)	kg	37.80
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ meter)	kg	37.80
2817	1.6 mm thick M.S. sheet	kg	42.53
2818	3 mm thick M.S. sheet	kg	42.53
GI AND RCC PIPE			
2819	20 mm dia G.I. Pipe (light class)	meter	88.13
2820	32 mm dia G.I. Pipe (light class)	meter	152.25
2821	50 mm dia G.I. Pipe (light class)	meter	239.00
2822	80 mm dia G.I. Pipe (light class)	meter	380.36
2823	100 mm dia G.I. Pipe (light class)	meter	531.26
2824	15 mm dia. G.I. pipe (medium class)	meter	76.24
2825	20 mm dia. G.I. pipe (medium class)	meter	96.19
2826	40 mm dia. G.I. pipe (medium class)	meter	207.95
2827	15 mm dia. G.I. pipe (heavy class)	meter	87.46
2828	20 mm dia. G.I. pipe (heavy class)	meter	112.75
2829	Check nut 20 mm	each	4.00
2831	32 mm dia. G.I. pipe (medium class)	meter	178.79
2832	50 mm dia. G.I. pipe (medium class)	meter	276.86
2833	80 mm dia. G.I. pipe (medium class)	meter	452.38
2834	100 mm dia. G.I. pipe (medium class)	meter	655.39
2835	150 mm dia. G.I. pipe (medium class)	meter	1031.89
2836	40 mm to 20 mm reducer	each	29.00
2837	Nipple 50 mm dia	each	51.98
2838	40 mm dia. G.I. bend (medium class)	each	51.45
2839	50 mm dia. G.I. bend (medium class)	each	90.00
2841	100 mm dia RCC pipe NP2 class	meter	141.75
2842	150 mm dia RCC pipe NP2 class	meter	162.00
2843	250 mm dia RCC pipe NP2 class	meter	197.00
2844	300 mm dia RCC pipe NP2 class	meter	274.00
2845	100 mm dia RCC collar NP2 class	each	21.00
2846	150 mm dia RCC collar NP2 class	each	26.00
2847	250 mm dia RCC collar NP2 class	each	42.00
2848	300 mm dia RCC collar NP2 class	each	51.00

Code No.	Description	Unit	Rate ₹
SCREWS, NUT BOTS AND OTHER ACCESSORIES			
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	0.40
2852	Iron screws, 35 mm X 6 mm	each	0.95
2853	Iron screws, 40 mm X 6 mm	each	0.95
2854	Iron screws, 45 mm X 6 mm	each	1.00
2855	Steel fastener 6 mm X 75 mm	each	5.00
2856	Steel fastener 8 mm X 75 mm	each	7.00
2857	PVC fastener 40 mm long	each	0.28
2858	PVC clip for fixing cable	each	0.10
2859	Rubber/ PVC bushes	each	0.50
2860	6 mm dia rivet/ stud/ bolts and nuts	each	3.00
2861	25 mm X 3mm bolts & nuts	each	2.00
2862	32mm X 8mm bolts & nuts	each	4.00
2863	38mm X 10 mm bolts & nuts	each	7.00
2864	38 mm X 7 mm, bolts and nuts	each	5.00
2865	15 mm long X 6 mm dia G.I. bolts and nuts	each	4.00
2866	10 mm X 25 mm long G.I. bolt with nut etc.	each	9.00
2867	16 mm X 50 mm bolts and nuts with washers	set	6.00
2868	16 mm X 40 mm bolts and nuts with washers	set	6.00
2869	16 mm X 125 mm bolts and nuts with washers	set	20.00
2870	16 mm X 150 mm bolts and nuts with washers	set	24.00
2871	10 mm X 25 mm long tinned brass bolt with nut etc.	each	27.50
2881	GI saddles 19mm x 0.55 mm for conduit	each	0.85
2882	GI saddles 25 mm x 0.90 mmm for conduit above 25 mm	each	1.00
HDPE PIPE			
2891	63 mm dia	Meter	57
2892	90 mm dia	Meter	80
2893	120 mm dia	Meter	130
2894	180 mm dia	Meter	195
2895	200 mm dia	Meter	278
HDPE PIPE COUPLER			
2896	63 mm dia	each	14
2897	90 mm dia	each	22
2898	120 mm dia	each	27
2899	180 mm dia	each	54
2900	200 mm dia	each	73
2901	20 mm X 3 mm copper tape (0.533 kg/meter)	kg	430.50
2902	25 mm X 5 mm copper tape (1.15 kg/meter)	kg	430.50

Code No.	Description	Unit	Rate ₹
2903	32 mm X 6 mm copper tape (1.705 kg/meter)	kg	430.50
2904	8 SWG copper wire (4.0 mm dia)	kg	435.75
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	each	4718.70
2906	Copper saddle	each	26.25
2907	50 mm X 5 mm copper strip (2.30 kg/meter)	kg	430.50
2908	Brass nipple	each	6.00
2909	Lightning finial, 25 mm dia X 300 mm long, copper	each	420.00
2910	Lightning finial, 25 mm dia X 300 mm long, G.I.	each	115.50
2911	20 mm X 3 mm G.I. Tape (0.461 kg/meter)	kg	48.30
2912	25 mm X 5 mm G.I. strip (1.0 kg/meter)	kg	44.10
2913	25 mm X 6 mm G.I. strip (1.2 kg/meter)	kg	42.00
2914	32 mm X 6 mm G.I. Tape (1.475 kg/meter)	kg	42.00
2915	600 mm X 600 mm X 6 mm thick G.I. plate	each	1307.00
2916	6 SWG G.I. wire	kg	52.50
2917	GI saddle 20 mm x 3mm	each	2.00
2918	Funnel	each	17.00
2919	G.I. nuts and through bolts with washer	each	22.00
2920	Washers	each	0.17
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	each	2.00
2922	CI/MS cover plate hinged to FRL Same with Locking arrangement	each	231.00
2923	Pulley of 50 mm dia	each	72.00
2924	Clamps, bolts, nuts etc.	set	93.00
2925	Flat iron clamps (50 mm X 6 mm) for G.I. pipe	each	28.90
2926	G.I. plate (10 cm X 10 cm X 5 mm)	kg	46.00
2927	Ball and socket	each	14.00
2928	Back plate	each	6.00
2929	Check nut 20 mm	each	3.00
2930	Rubber reel, nut & bolts with washers and safety pin	Set	50.00
2931	PVC sleeve	meter	4.00
2932	250 mm X 200 mm H.T. danger notice plate	each	52.00
2933	200 mm X 150 mm M.V. danger notice plate	each	40.00
2934	Earthing thimbles and solder	L.S.	11.00
2935	Cement, paint, sand etc.	L.S.	4.50
2936	Painting with primer and finish paint	L.S.	4.00
2937	Diesel	liter	53.00
2938	Cotton waste, cleaning cloth etc.	kg	38.00
2939	Cleaning materials like soap/ detergent	kg	43.00
2940	Tin solder etc.	L.S.	5.00
2941	Charcoal	kg	6.30

Code No.	Description	Unit	Rate ₹
2942	Coke	kg	8.20
2943	Salt	kg	7.00
2944	Paint	liter	142.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	3.00
2946	Fine sand	cum	672.00
2947	Bricks ballast	cum	525.00
2948	Cement	ton	5250.00
2949	Stone aggregate (single size) 40 mm nominal size	cum	1050.00
2950	Stone aggregate (single size) 20 mm nominal size	cum	1175.00
2951	Stone aggregate (single size) 10 mm nominal size	cum	1175.00
2952	Coarse sand (Zone III)	cum	1200.00
9999	Sundries/bending charges	L.S.	1.10

HVAC ITEMS

The Pipes of sizes 150 mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150 mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35 mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

3001	M.S. Pipe - 400 mm dia.	Meter	5040.63
3002	M.S. Pipe - 350 mm dia.	Meter	2955.02
3003	M.S. Pipe- 300 mm dia.	Meter	2673.41
3004	M.S. Pipe - 250 mm dia.	Meter	2249.10
3005	M.S. Pipe - 200 mm dia.	Meter	1792.67
3006	M.S. Pipe - 150 mm dia.	Meter	1138.54
3007	M.S. Pipe - 125 mm dia.	Meter	958.28
3008	M.S. Pipe - 100 mm dia.	Meter	776.98
3009	M.S. Pipe - 80 mm dia.	Meter	527.40
3010	M.S. Pipe - 65 mm dia.	Meter	435.46
3011	M.S. Pipe - 50 mm dia.	Meter	332.26
3012	M.S. Pipe - 40 mm dia.	Meter	234.64
3013	M.S. Pipe - 32 mm dia	Meter	201.71
3014	M.S. Pipe - 25 mm dia	Meter	156.59
3023	Pipe aluminium Cladding 0.63mm	sq.m	300.00
	BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/ hot eater circulation as specified		
3024	200 mm dia	Each	8330.00

Code No.	Description	Unit	Rate ₹
3025	150 mm dia.	Each	4536.00
3026	125 mm dia.	Each	3864.00
3027	100 mm dia.	Each	3465.00
3028	80 mm dia.	Each	2469.60
3029	65 mm dia.	Each	2175.60
3030	50 mm dia.	Each	1999.20
3031	40 mm dia.	Each	1808.00
	BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.		
3032	200 mm dia	Each	40857.60
3033	150 mm dia.	Each	19491.15
3034	125 mm dia.	Each	13027.35
3035	100 mm dia.	Each	9301.69
3036	80 mm dia.	Each	5675.78
3037	65 mm dia	Each	5436.38
3038	50 mm dia.	Each	4887.75
3039	40 mm dia	Each	2236.00
	NON - RETURN VALVE with duel plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified.		
3040	200 mm dia	Each	7052.33
3041	150 mm dia.	Each	4428.90
3042	125 mm dia.	Each	3361.58
3043	100 mm dia	Each	2294.25
3044	80 mm dia.	Each	1680.79
3045	65 mm dia	Each	1386.53
	Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified.		
3046	200 mm dia	Each	16794.91
3047	150 mm dia.	Each	8002.94
3048	125 mm dia.	Each	7496.21
3049	100 mm dia	Each	4937.63
3050	80 mm dia	Each	3620.93
3051	65 mm dia.	Each	3127.16
3052	50 mm dia.	Each	2413.95

Code No.	Description	Unit	Rate ₹
3053	40 mm dia.	Each	1645.88
3054	Industrial type pressure gauges with gun metal / brass valves	Each	717.00
3055	Industrial type thermometre.	Each	525.00
	Factory fabricated GSS sheet metal rectangular/round ducting of following sheet thickness		
3056	Thickness 0.63 mm sheet	sq.m	430.35
3057	Thickness 0.80 mm sheet	sq.m	548.26
3058	Thickness 1.00 mm sheet	sq.m	654.37
3059	Thickness 1.25 mm sheet	sq.m	766.38
	GSS sheet metal of following sheet thickness		
3060	Thickness 0.63 mm sheet	sq.m	310.86
3061	Thickness 0.80 mm sheet	sq.m	414.48
3062	Thickness 1.00 mm sheet	sq.m	518.10
3063	Thickness 1.25 mm sheet	sq.m	627.00
3064	GI volume control duct damper	sq.m	4300.00
3015	Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire (minimum 1.5 sq.mm) for integration within AHU room		9000.00
3065	Actuator	sq.m	3589.00
3066	powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers	sq.m	5912.68
3067	powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers	sq.m	3272.43
3068	supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	sq.m	7251.40
3069	Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	sq.m	4611.15
3070	Thermal insulated flexible duct- 200 mm dia	sq.m	274.00
	Fire dampers in supply air duct/main branch and return air path with inbuilt mechanism of spring return action		
3071	Fire damper	sq.m	5711.87
3072	Actuator	sq.m	5255.72
3073	25 mm thick resin bonded glass wool having density of 32 kg/m ³ ,	sq.m	97.69
3074	50 mm thick, density 32 kg/cu.m resin bonded glass fiber insulation	sq.m	196.02
	Duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class "O") insulation for use on existing duct		
3076	19 mm thick	sq.m	605.55
3077	25 mm thick	sq.m	772.75

Code No.	Description	Unit	Rate ₹
----------	-------------	------	--------

AIR HANDLING UNITS

Factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25 mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/ PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5 mm) cooling coil of 6 row deep, filter section with 50 mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of efficiency class IE 3 suitable for 415 ± 10% V, 50Hz, 3 Phase AC supply suitably designed for VFD applications, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 Nos.) and industrial type thermometer (2 Nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.

3078	4300 CMH	Each	61249.85
3079	5100 CMH	Each	72058.65
3080	6800 CMH	Each	81229.75
3081	8500 CMH	Each	101340.66
3082	10200 CMH	Each	118503.72
3083	11900 CMH	Each	133177.48
3084	13600 CMH	Each	147851.24
3085	15300 CMH	Each	161804.41
3086	17000 CMH	Each	175757.59
3087	18700 CMH	Each	193051.66
3088	20400 CMH	Each	210345.74

Factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25 mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/ PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5 mm) cooling coil of 4 row deep, filter section with 50 mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of efficiency class IE 3 suitable for 415 ± 10% V, 50Hz, 3 Phase AC supply suitably designed for VFD applications, drain connections, stainless steel (18G) drain pan

Code No.	Description	Unit	Rate ₹
	with PUF insulation, 150 mm dia. dial type pressure gauges (2 Nos.) and industrial type thermometer (2 Nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.		
3089	4300 CMH	Each	55419.65
3090	5100 CMH	Each	65049.30
3091	6800 CMH	Each	72582.71
3092	8500 CMH	Each	89811.28
3093	10200 CMH	Each	105140.11
3094	11900 CMH	Each	117619.36
3095	13600 CMH	Each	130098.61
3096	15300 CMH	Each	141791.76
3097	17000 CMH	Each	153484.91
3098	18700 CMH	Each	166389.96
3099	20400 CMH	Each	183684.04
	Motorized Butter fly Valves with CI Body, SS Disc, O - ring and minimum PN-16 pressure rating, conforming to BS 5155, IS 13095, with IP-55 actuator as specified.		
3101	350 mm	Each	66779.00
3102	300 mm	Each	59842.00
3103	250 mm	Each	43083.00
3104	200 mm	Each	32497.00
3105	150 mm	Each	25194.00
3106	125 mm	Each	24977.00
3107	100 mm	Each	24513.00
3108	80 mm	Each	10481.00
3109	65 mm	Each	10380.00
3110	50 mm	Each	10168.00
	Electronic, self-balancing, pressure independent type dynamic balancing valve with integrated 2 way modulating control valves in a single body, alongwith actuator as specified		
3111	150 mm	Each	93800.00
3112	125 mm	Each	85400.00
3113	100 mm	Each	67200.00
3114	80 mm	Each	39200.00
3115	65 mm	Each	30800.00
3116	50 mm	Each	19950.00

Code No.	Description	Unit	Rate ₹
3117	40 mm	Each	18200.00
3118	32 mm	Each	9800.00
3119	25 mm	Each	9240.00
3120	20 mm	Each	6720.00

AIR HANDLING UNIT

Factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25 mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5 mm) cooling coil of 6 row deep, filter section with 50 mm thick metal viscous/washable synthetic type air prefilters, belt drive package with TEFC drive motor of Efficiency Class IE3 suitable for VFD 415 ± 10% V, 20- 50Hz, 3 Phase AC supply, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 Nos.) and industrial type thermometer (2 Nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.

3142	23800 CMH	Each	253608.75
3143	28900 CMH	Each	267830.25
3144	34000 CMH	Each	296847.00
3145	39100 CMH	Each	340181.25

Factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25 mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5 mm) cooling coil of 4 row deep, filter section with 50 mm thick metal viscous/washable synthetic type air prefilters, belt drive package with TEFC drive motor of efficiency Class IE3 suitable for VFD, 415 ± 10% V, 20-50Hz, 3 Phase AC supply, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 Nos.) and industrial type thermometer (2 Nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.

Code No.	Description	Unit	Rate ₹
3162	23800 CMH	Each	192139.50
3163	28900 CMH	Each	245208.75
3164	34000 CMH	Each	271743.75
3165	39100 CMH	Each	311355.00
3201	Resin bonded fiber glass insulation of density 80 kg/cu m of thickness 65 mm on existing pipe	sq meter	1052.74
HOT DIPPED GALVANIZED CABLE TRAYS			
3701	MS perforated cable tray Hot Dipped Galvanized 100 X 50 X 1.6 mm	meter	213.75
3702	MS perforated cable tray Hot Dipped Galvanized 150 X 50 X 1.6 mm	meter	267.75
3703	MS perforated cable tray Hot Dipped Galvanized 225 X 50 X 1.6 mm	meter	348.75
3704	MS perforated cable tray Hot Dipped Galvanized 300 X 50 X 1.6 mm	meter	427.50
3705	MS perforated cable tray Hot Dipped Galvanized 375 X 50 X 2 mm	meter	577.13
3706	MS perforated cable tray Hot Dipped Galvanized 450 X 50 X 2 mm	meter	669.38
3707	MS perforated cable tray Hot Dipped Galvanized 600 X 50 X 2 mm	meter	850.50
3708	MS perforated cable tray Hot Dipped Galvanized 300 X 62.5 X 2 mm	meter	517.50
3709	MS perforated cable tray Hot Dipped Galvanized 375 X 62.5 X 2 mm	meter	607.50
3710	MS perforated cable tray Hot Dipped Galvanized 450 X 62.5 X 2 mm	meter	698.63
3711	MS perforated cable tray Hot Dipped Galvanized 600 X 62.5 X 2 mm	meter	883.13
3712	MS perforated cable tray Hot Dipped Galvanized 750 X 62.5 X 2 mm	meter	1085.63
3713	MS perforated cable tray Hot Dipped Galvanized 900 X 62.5 X 2 mm	meter	1271.25
3714	MS perforated cable tray Hot Dipped Galvanized 600 X 75 X 2 mm	meter	911.25
3715	MS perforated cable tray Hot Dipped Galvanized 750 X 75 X 2 mm	meter	1113.75
3716	MS perforated cable tray Hot Dipped Galvanized 900 X 75 X 2 mm	meter	1299.38
3717	MS perforated Hot Dipped Galvanized cable tray Connector 100 X 50 X 1.6 mm	each	33.75

Code No.	Description	Unit	Rate ₹
3718	MS perforated Hot Dipped Galvanized cable tray Connector 150 X 50 X 1.6 mm	each	33.75
3719	MS perforated Hot Dipped Galvanized cable tray Connector 225 X 50 X 1.6 mm	each	33.75
3720	MS perforated Hot Dipped Galvanized cable tray Connector 300 X 50 X 1.6 mm	each	33.75
3721	MS perforated Hot Dipped Galvanized cable tray Connector 375 X 50 X 2 mm	each	33.75
3722	MS perforated Hot Dipped Galvanized cable tray Connector 450 X 50 X 2 mm	each	33.75
3723	MS perforated Hot Dipped Galvanized cable tray Connector 600 X 50 X 2 mm	each	33.75
3724	MS perforated Hot Dipped Galvanized cable tray Connector 300 X 62.5 X 2 mm	each	33.75
3725	MS perforated Hot Dipped Galvanized cable tray Connector 375 X 62.5 X 2 mm	each	33.75
3726	MS perforated Hot Dipped Galvanized cable tray Connector 450 X 62.5 X 2 mm	each	33.75
3727	MS perforated Hot Dipped Galvanized cable tray Connector 600 X 62.5 X 2 mm	each	33.75
3728	MS perforated Hot Dipped Galvanized cable tray Connector 750 X 62.5 X 2 mm	each	33.75
3729	MS perforated Hot Dipped Galvanized cable tray Connector 900 X 62.5 X 2 mm	each	33.75
3733	MS perforated Hot Dipped Galvanized cable tray Bend 100 X 50 X 1.6 mm	each	534.38
3734	MS perforated Hot Dipped Galvanized cable tray Bend 150 X 50 X 1.6 mm	each	669.38
3735	MS perforated Hot Dipped Galvanized cable tray Bend 225 X 50 X 1.6 mm	each	871.88
3736	MS perforated Hot Dipped Galvanized cable tray Bend 300 X 50 X 1.6 mm	each	1068.75
3737	MS perforated Hot Dipped Galvanized cable tray Bend 375 X 50 X 2 mm	each	1445.63
3738	MS perforated Hot Dipped Galvanized cable tray Bend 450 X 50 X 2 mm	each	1670.63
3739	MS perforated Hot Dipped Galvanized cable tray Bend 600 X 50 X 2 mm	each	2126.25
3740	MS perforated Hot Dipped Galvanized cable tray Bend 300 X 62.5 X 2 mm	each	1293.75
3741	MS perforated Hot Dipped Galvanized cable tray Bend 375 X 62.5 X 2 mm	each	1518.75

Code No.	Description	Unit	Rate ₹
3742	MS perforated Hot Dipped Galvanized cable tray Bend 450 X 62.5 X 2 mm	each	1749.38
3743	MS perforated Hot Dipped Galvanized cable tray Bend 600 X 62.5 X 2 mm	each	2025.00
3744	MS perforated Hot Dipped Galvanized cable tray Bend 750 X 62.5 X 2 mm	each	2711.25
3745	MS perforated Hot Dipped Galvanized cable tray Bend 900 X 62.5 X 2 mm	each	3172.50
3746	MS perforated Hot Dipped Galvanized cable tray Bend 600 X 75 X 2 mm	each	2278.13
3747	MS perforated Hot Dipped Galvanized cable tray Bend 750 X 75 X 2 mm	each	2784.38
3748	MS perforated Hot Dipped Galvanized cable tray Bend 900 X 75 X 2 mm	each	3251.25
3749	MS perforated Hot Dipped Galvanized cable tray Reducer 100 X 50 X 1.6 mm	each	1203.75
3750	MS perforated Hot Dipped Galvanized cable tray Reducer 150 X 50 X 1.6 mm	each	1541.25
3751	MS perforated Hot Dipped Galvanized cable tray Reducer 225 X 50 X 1.6 mm	each	1940.63
3752	MS perforated Hot Dipped Galvanized cable tray Reducer 300 X 50 X 1.6 mm	each	2362.50
3753	MS perforated Hot Dipped Galvanized cable tray Reducer 375 X 50 X 2 mm	each	2812.50
3754	MS perforated Hot Dipped Galvanized cable tray Reducer 450 X 50 X 2 mm	each	3037.50
3755	MS perforated Hot Dipped Galvanized cable tray Reducer 600 X 50 X 2 mm	each	4275.00
3756	MS perforated Hot Dipped Galvanized cable tray Reducer 300 X 62.5 X 2 mm	each	2812.50
3757	MS perforated Hot Dipped Galvanized cable tray Reducer 375 X 62.5 X 2 mm	each	3268.13
3758	MS perforated Hot Dipped Galvanized cable tray Reducer 450 X 62.5 X 2 mm	each	3954.38
3759	MS perforated Hot Dipped Galvanized cable tray Reducer 600 X 62.5 X 2 mm	each	4921.88
3760	MS perforated Hot Dipped Galvanized cable tray Reducer 750 X 62.5 X 2 mm	each	5062.50
3761	MS perforated Hot Dipped Galvanized cable tray Reducer 900 X 62.5 X 2 mm	each	5895.00
3762	MS perforated Hot Dipped Galvanized cable tray Reducer 600 X 75 X 2 mm	each	4162.50

Code No.	Description	Unit	Rate ₹
3763	MS perforated Hot Dipped Galvanized cable tray Reducer 750 X 75 X 2 mm	each	5315.63
3764	MS perforated Hot Dipped Galvanized cable tray Reducer 900 X 75 X 2 mm	each	6187.50
3765	MS perforated Hot Dipped Galvanized cable tray Tee 100 X 50 X 1.6 mm	each	641.25
3766	MS perforated Hot Dipped Galvanized cable tray Tee 150 X 50 X 1.6 mm	each	669.38
3767	MS perforated Hot Dipped Galvanized cable tray Tee 225 X 50 X 1.6 mm	each	1046.25
3768	MS perforated Hot Dipped Galvanized cable tray Tee 300 X 50 X 1.6 mm	each	1282.50
3769	MS perforated Hot Dipped Galvanized cable tray Tee 375 X 50 X 2 mm	each	1732.50
3770	MS perforated Hot Dipped Galvanized cable tray Tee 450 X 50 X 2 mm	each	2008.13
3771	MS perforated Hot Dipped Galvanized cable tray Tee 600 X 50 X 2 mm	each	2553.75
3772	MS perforated Hot Dipped Galvanized cable tray Tee 300 X 62.5 X 2 mm	each	1552.50
3773	MS perforated Hot Dipped Galvanized cable tray Tee 375 X 62.5 X 2 mm	each	1856.25
3774	MS perforated Hot Dipped Galvanized cable tray Tee 450 X 62.5 X 2 mm	each	2098.13
3775	MS perforated Hot Dipped Galvanized cable tray Tee 600 X 62.5 X 2 mm	each	2700.00
3776	MS perforated Hot Dipped Galvanized cable tray Tee 750 X 62.5 X 2 mm	each	3251.25
3777	MS perforated Hot Dipped Galvanized cable tray Tee 900 X 62.5 X 2 mm	each	3808.13
3778	MS perforated Hot Dipped Galvanized cable tray Tee 600 X 75 X 2 mm	each	2733.75
3779	MS perforated Hot Dipped Galvanized cable tray Tee 750 X 75 X 2 mm	each	3341.25
3780	MS perforated Hot Dipped Galvanized cable tray Tee 900 X 75 X 2 mm	each	3898.13
3781	MS perforated Hot Dipped Galvanized cable tray Cross member 100 X 50 X 1.6 mm	each	641.25
3782	MS perforated Hot Dipped Galvanized cable tray Cross member 150 X 50 X 1.6 mm	each	669.38
3783	MS perforated Hot Dipped Galvanized cable tray Cross member 225 X 50 X 1.6 mm	each	1046.25
3784	MS perforated Hot Dipped Galvanized cable tray Cross member 300 X 50 X 1.6 mm	each	1282.50

Code No.	Description	Unit	Rate ₹
3785	MS perforated Hot Dipped Galvanized cable tray Cross member 375 X 50 X 2 mm	each	1732.50
3786	MS perforated Hot Dipped Galvanized cable tray Cross member 450 X 50 X 2 mm	each	2008.13
3787	MS perforated Hot Dipped Galvanized cable tray Cross member 600 X 50 X 2 mm	each	2553.75
3788	MS perforated Hot Dipped Galvanized cable tray Cross member 300 X 62.5 X 2 mm	each	1552.50
3789	MS perforated Hot Dipped Galvanized cable tray Cross member 375 X 62.5 X 2 mm	each	1822.50
3790	MS perforated Hot Dipped Galvanized cable tray Cross member 450 X 62.5 X 2 mm	each	2098.13
3791	MS perforated Hot Dipped Galvanized cable tray Cross member 600 X 62.5 X 2 mm	each	2649.38
3792	MS perforated Hot Dipped Galvanized cable tray Cross member 750 X 62.5 X 2 mm	each	3251.25
3793	MS perforated Hot Dipped Galvanized cable tray Cross member 900 X 62.5 X 2 mm	each	3808.13
3794	MS perforated Hot Dipped Galvanized cable tray Cross member 600 X 75 X 2 mm	each	2733.75
3795	MS perforated Hot Dipped Galvanized cable tray Cross member 750 X 75 X 2 mm	each	2338.88
3796	MS perforated Hot Dipped Galvanized cable tray Cross member 900 X 75 X 2 mm	each	2728.69
3801	GI Suspender 6 mm dia 0.75m long	each	21
3802	GI Suspender 8 mm dia 0.75m long	each	25.52
3803	GI Suspender 10 mm dia 0.75m long	each	35.91
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel	kg	36.4
3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel	kg	36.4
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel	kg	36.4
4001	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 400 mm dia pipe	meter	1507.13
4002	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 350 mm dia pipe	meter	1347.10
4003	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 300 mm dia pipe	meter	1104.16
4004	Resin bonded fiber glass pipe section 250 mm insulation having density 80 kg/cum-75 mm thickness for 250 mm dia pipe	meter	964.69
4005	Resin bonded fiber glass pipe section 200 mm insulation having density 80 kg/cum-75 mm thickness for 200 mm dia pipe	meter	816.87
4006	Resin bonded fiber glass pipe section 150 mm insulation having density 80 kg/cum-50 mm thickness for 150 mm dia pipe	meter	413.26

4007	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 125 mm dia pipe	meter	364.41
4008	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 100 mm dia pipe	meter	315.57
4009	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 80 mm dia pipe	meter	269.29
4010	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 65 mm dia pipe	meter	244.23
4011	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 50 mm dia pipe	meter	213.38
4012	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 40 mm dia pipe	meter	192.17
4013	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 32 mm dia pipe	meter	180.60
4014	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 25 mm dia pipe	meter	164.53
4015	Nitrile rubber (closed cell elastometric nitrile rubber of class 'O') Insulation -32 mm thickness	sq. m	658.35
4016	Nitrile rubber (closed cell elastometric nitrile rubber of class 'O') Insulation -19 mm thickness	sq. m	371.80
4017	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75 mm thickness for 400 mm dia pipe	meter	852.64
4018	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75 mm thickness for 350 mm dia pipe	meter	744.66
4019	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75 mm thickness for 300 mm dia pipe	meter	659.02
4020	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75 mm thickness for 250 mm dia pipe	meter	572.46
4021	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75 mm thickness for 200 mm dia pipe	meter	488.68
4022	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 150 mm dia pipe	meter	241.08
4023	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation - 50 mm thickness for 125 mm dia pipe	meter	213.16
4024	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 100 mm dia pipe	meter	179.65
4025	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 80 mm dia pipe	meter	157.31
4026	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 65 mm dia pipe	meter	143.35
4027	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 50 mm dia pipe	meter	124.73

4028	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 40 mm dia pipe	meter	111.70
4029	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 32 mm dia pipe	meter	106.11
4030	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 25 mm dia pipe	meter	95.87
4031	Resin bonded fiber glass insulation of thickness 75 mm on existing pipe	sq. m	1111.87
4032	Resin bonded fiber glass insulation of density 80 kg/cum of thickness 50 mm on existing pipe	sq. m	912.63
4033	Resin bonded fiber glass insulation of density 80 kg/cum of thickness 40 mm on existing pipe	sq. m	835.51
4034	Resin bonded fiber glass insulation of thickness 25 mm on existing pipe	sq. m	642.70
4037	Expanded polystyrene insulation of thickness 75 mm on existing pipe	sq. m	699.98
4038	Expanded polystyrene insulation of thickness 50 mm on existing pipe	sq. m	446.80
4069	Acoustic lining of supply air duct with 25 mm thick resin bonded glass wool having density of 32kg/cum	sq. m	152.00
4070	Reinforced fiber glass tissue and 0.08mm perforated aluminium sheet	sq. m	260.00
4071	50 mm thick resin bonded glass wool having density of 32kg/cum	sq. m	196.02
4072	50 mm thick resin bonded glass wool having density of 24 kg/cum with factory laminated aluminium foil	sq. m	193.45
4073	Resin bonded fiber glass insulation of thickness 65 mm on existing pipe	sq. m	1052.74