

Cost Data Book FY 2024-25



Prepared by:

FEEDBACK INFRA
Making Infrastructure Happen

FROM THE DESK OF MANAGING DIRECTOR



Shri Avinash Kumar, I.A.S

Managing Director

Jharkhand Bijli Vitran Nigam Limited

JBVNL (Jharkhand Bijli Vitran Nigam Limited) is the largest Distribution Company of Jharkhand State. The company is currently serving approx. 5.16 million consumers and has a peak load of around 2,400 MW. JBVNL is also dedicated to improving the living standard of its citizen, and to support economic growth by providing 24x7 Power for All in Jharkhand.

The Electricity Department of Jharkhand has prepared plans to strengthen distribution system and enhance the quality of power supply to Consumers. JBVNL has taken several initiatives like implementation of ERP & SCADA, online capex monitoring application, SMS based burnt DT reporting, android-based mobile application (eZy-bZly), facilitating bill payment, new connections, lodging complaints, integrated Geographical Information System (GIS), Saral-Samiksha (online project monitoring tool), Suvidha portal, Sashakt (24x7 toll free helpline), Urja Mitra, etc.

JBVNL is thus, committed towards the said goal and in this context, in Consultation with M/s FEEDBACK INFRA, has developed the Schedule of Rates (SoR)/ Cost Data Book 2024-25 to assist the officials in timely, fair, and fast acquisition of items for Capital Works under the jurisdiction of JBVNL.

Managing Director
JBVNL

PREAMBLE

In the electricity distribution business, it is crucial to have a comprehensive and updated cost data book (CDB) that provides information on the cost of various electrical equipment. This book is essential for engineers, contractors, and purchasing vendors who need to make informed decisions about equipment costs. The cost data book should include information on prices, lead times, and availability of different types of electrical equipment. This information is used to estimate project costs, negotiate contracts, and make purchasing decisions.

The CDB includes the prices of labour, materials, equipment, and other miscellaneous items required for a project. It is updated regularly to reflect changes in the market, technology, and inflation.

Formation of Committee for the preparation of Cost data book:

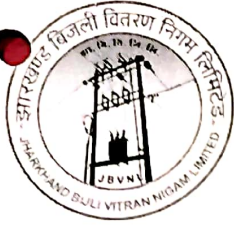
A committee was constituted vide Officer Order No. 517 dated 09.06.2023 consisting of following officer for the preparation of Cost Data Book:

- | | |
|---|------------|
| 1. Shri Sudhir Kumar Singh, Executive Director (O&M), JBVNL | - Chairman |
| 2. Shri Ajeet Kumar, General Manager (S&P), JBVNL | - Member |
| 3. Shri Satyajeet Ghosh, General Manager (IA & FM), JBVNL | - Member |
| 4. Shri Sanjay Singh, General Manager (Commercial), JBVNL
(Representative of Vigilance department) | - Member |
| 5. Shri Prabhat Kumar Shrivastava, General Manager, ESA, Ranchi
(Member from Area Board) | - Member |
| 6. Shri Sanjay Singh, Dy. General Manager (Store & TRW), JBVNL | - Convener |
| 7. Shri Ravi Ranjan, Sr. Manager, Central Store, Namkum, JUSNL
(Independent member from JUSNL) | - Member |

M/s Feedback Infra Pvt. Ltd (FIPL) has been appointed as consultant to support the committee in the task of preparation of the cost data book.

The schedule of rates (SOR) of items for preparation of Cost Data Book FY 2024-25 has been approved by the Board of Directors of Jharkhand Bijli Vitran Nigam Ltd. vide Board Resolution 77-10 in it's 77th meeting dated 04.09.2024.

Attached overleaf is the Board Resolution in this regard.



झारखण्ड बिजली वितरण निगम लिमिटेड

JHARKHAND BIJLI VITRAN NIGAM LIMITED

(CIN: U40108JH2013SGC001702)

Regd. Office: - Engineering Building, H.E.C., Dhurwa, Ranchi - 834004.

Telephone: - 0651-2400760 & Fax: 0651-2446055

EXTRACT OF MINUTES OF 77TH (SEVENTY-SEVENTH) MEETING OF THE BOARD OF DIRECTORS OF JHARKHAND BIJLI VITRAN NIGAM LIMITED HELD ON WEDNESDAY, 04TH DAY OF SEPTEMBER, 2024 AT 02:30 P.M. AT REGISTERED OFFICE OF THE COMPANY SITUATED AT ENGINEERING BUILDING, H.E.C., DHURWA, RANCHI - 834004.

ITEM NO. 77-10:

Proposal for Approval on proposed material rates and labor schedule for Cost Data Book 2024-25 of JBVNL as recommended by the JBVNL'S Cost Data Committee report dated 22.07.2024.

Salient features of the Agenda note were briefed before the Board thereafter; the Board of Directors after deliberation considered the following proposals:

To accord approval of rates of various materials and labour schedule as proposed by SPC on recommendation of cost data committee for Cost Data Book 2024-25 of JBVNL.

"The Board of Directors after deliberations unanimously approved the agenda/ proposal."

Certified to be True Copy

Date:

For Jharkhand Bijli Vitran Nigam Limited

Place: Ranchi


(Nimesh Anand)
Company Secretary,
JBVNL

APPROACH AND METHODOLOGY

In order to arrive at the rates for the items in the cost data book, the following methodology was adopted:

- Material list from Cost data Book 2023-24 in the BoD meeting was taken as reference.
- JBVNL Head Office latest procurement rates, wherever available are preferred to any prevalent purchase item rates and are hence updated in the Cost Data Book 2023-24. Rates of Total 61 Nos. Materials have been updated as per the latest P.O. issued.
- As per the requirement of JBVNL and latest procurement, 11 Nos. of new items have been added.
- As per proposal of GM (Tech.) Jamshedpur the Labour schedule of 33KV & 11 KV covered conductor to be introduced in the cost data book 2024-25.
- After evaluating the material list against the latest JBVNL Purchase Order (PO), Schedule of Rates (SOR), and Purchase Orders from other states, we have identified 1152 items for which the rates have not been changed. This is due to the existing rates are deemed reasonable and thus not requiring updates and same has been recommended by cost data committee.
- After evaluation of material list for the Cost Data Book 2024-25, total items tally to be around 1224.
- As per the already approved Agenda by BoD in its 57th Meeting dated 7/7/2022, the rates of 05 Nos. Materials under **LED Lights and related Items** and 09 Nos. of Materials under **Diesel Generator sets (Three Phase) with AMF Panel** will be adopted from the latest SOR of Energy Department.
- For rates associated with Civil Works, reference rates have been taken from Building Construction Department (Govt. of Jharkhand) with effect from July 2022.

Estimation of Labor/Erection Rates:

In order to calculate the cost of erection of 33 kV line, 11 kV line, 33/11 kV Power Sub Station, Distribution Sub Stations, LT Line and service connection, labor rate and percentage rise in labor rate as issued by Labor, Planning, Training and Skills Development Department of Government of Jharkhand have been considered. As per recommendation of the cost data committee that the labour rates are remain same as previously approved cost data book 2023-24.

Labor Rates for difficult areas:

For difficult/Left wing extremism (LWE) affected areas in the state where regular labour rates are not acceptable due to various difficulties in execution, it is hereby proposed to allow 10% escalation over and above the proposed labour cost, on the approval of respective S.P and D.C office in line with similar provision in JBVNL Cost data book FY 2023-24.

Other components:

- Sundries Charges including nut bolts, paint etc. (in INR) @ 3% of total material cost.
- Contingencies Charges (in INR) @ 3% of total material cost
- Store Charges (in INR) @ 3% of total material cost
- Transportation Cost (in INR) @ 4% of total material cost
- T & P Cost (in INR) @ 2% of total material cost
- Overhead Cost (in INR) @ 10% of total material cost

Preparation of Estimation for turnkey:

For calculation of rates for turnkey works, the following methodology has been considered:

An indirect cost component is considered in addition to the direct cost (landed supply cost + labor cost + civil cost) @ 26% (for projects size more than 5 crores) and @ 18% (for projects size less than 5 crores). This component of indirect cost is calculated as explained below:

For project size more than 5 Crores following indirect costs are associated:

- Design/Consultancy @ 1% of landed supply cost of material
- Storage @ 3% of landed supply cost of material
- Transportation & Material handling @ 4% of landed supply cost of material
- T&P @ 2% of landed supply cost of material
- Testing and Commissioning Charges @ 0.5% of landed supply cost of material
- Finance charges for BG's and Securities @ 0.25% of landed supply cost of material
- Project Management Charges @ 2.25% of landed supply cost of material
- Contingencies Charges @ 3% of landed supply cost of material
- Overheard charges @10% of landed supply cost of material

For project size less than 5 Crores following indirect costs are associated:

- Storage @ 3% of landed supply cost of material
- T&P @ 2% of landed supply cost of material
- Contingencies Charges @ 3% of landed supply cost of material
- Overheard charges @10% of landed supply cost of material

Note: The various schedules designed are for reference purpose only. Original estimates may be prepared as per site requirement using the actual unit Material and Labour rates.

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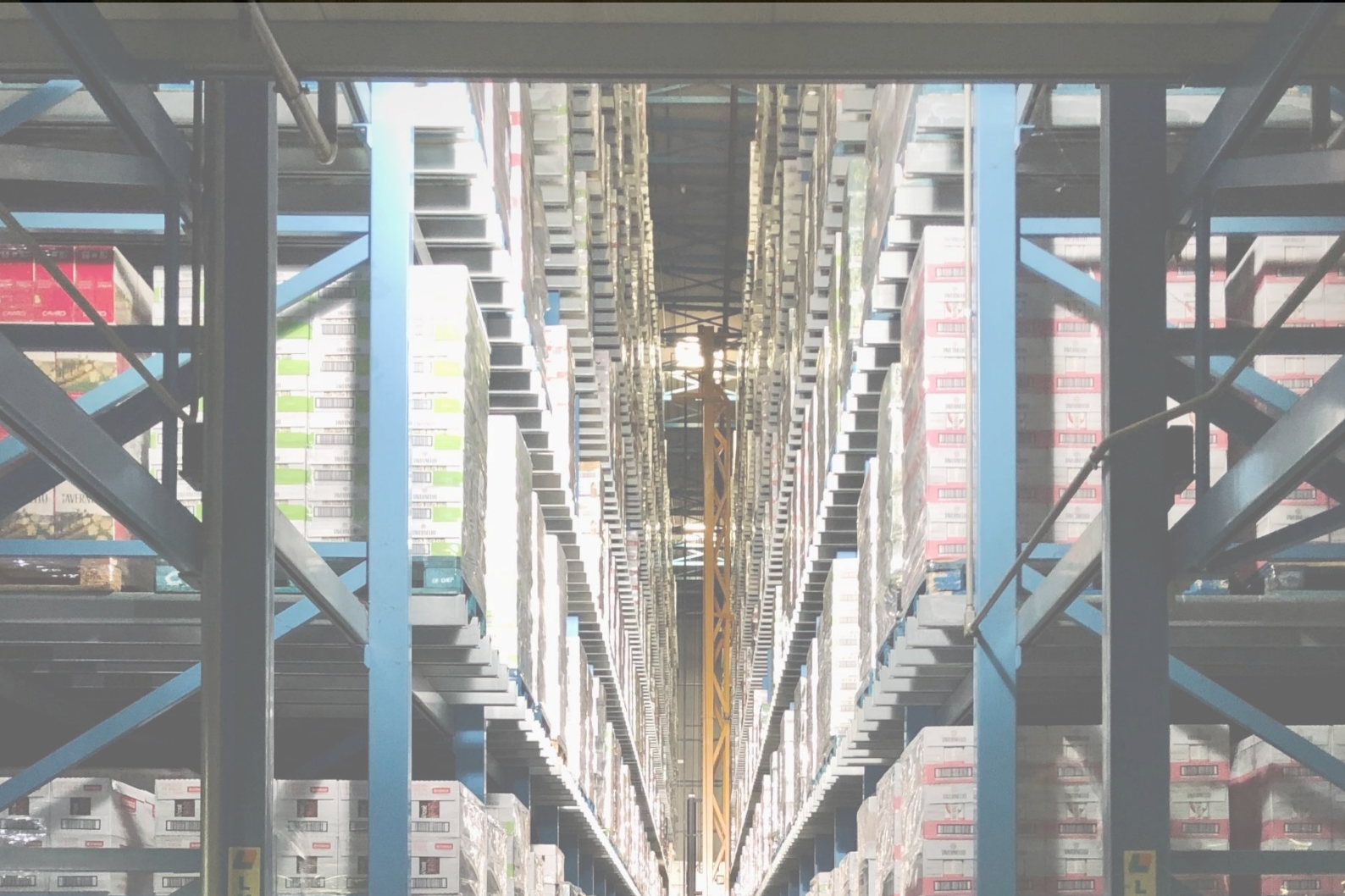


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MATERIAL LIST



1. Material List

S. No.	Name of Materials/ Equipment	Unit	Proposed SOR Rate Jharkhand' 2024-25 Excl. GST	Proposed SOR Rate Jharkhand' 2024-25 Incl. GST	Turnkey Rates	
					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
A	B	C	D	E	F	G
	Line Supports (Poles)					
1	Rail Pole 60 kgs 13 meter	Each	46542.4	54920.03	64805.64	69199.24
2	Rail Pole 52 Kgs 13 meter	Each	40336.4	47596.95	56164.40	59972.16
3	RS Joist Pole 9.3 meter (175x85mm) 19.6 kgs per mtr	Each	13517.6	15950.81	18821.96	20098.03
4	RS Joist Pole 9 meter (116x100mm) 23 kgs per mtr	Each	15350.8	18113.99	21374.51	22823.63
5	125x70x5 RS GI joist 8Mtr (13.3kg / Mtr)	Each	7890.5	9310.77	10986.70	11731.57
6	125x70x6 RS GI joist 5Mtr (13.3kg / Mtr)	Each	4931.6	5819.23	6866.69	7332.23
7	H Beam Pole 11 meters (152x152mm) 37.1 kgs per mtr	Each	26285.0	31016.30	36599.23	39080.54
8	H-Beams 152 X 152 mm., 37.1 Kg./Mtr.-13 mtr. Long = 482.3 kg	Each	31064.0	36655.52	43253.51	46185.96
9	H-Beams 152 X 152 mm., 37.1 Kg./Mtr.-9 mtr. Long= 333.9 kg	Each	21506.0	25377.08	29944.95	31975.12
10	H-Beams 152 X 152 mm., 37.1 Kg./Mtr.-7 mtr. Long= 259.7 kg	Each	16726.0	19736.68	23289.28	24868.22
11	PSC Pole 400 KG W.L (9 mtr.)	Each	3810.0	4495.80	5305.04	5664.71
12	PSC Pole 200 KG W.L (8 mtr.)	Each	2231.8	2633.58	3107.62	3318.31
13	Steel Tubular Pole (SP-28) of 9 meter	Each	7497.0	8846.41	10438.76	11146.48
14	Steel Tubular Pole (SP-55) of 11 meter	Each	12958.6	15291.11	18043.51	19266.80
15	Steel Tubular Pole (SP-72) of 13meter	Each	18454.3	21776.12	25695.82	27437.91
	ACSR Conductors					
16	ACSR Panther Conductor (232 sq. mm)	KM	162940.4	192269.66	226878.20	242259.77
17	ACSR Wolf Conductor (150 sq. mm)	KM	145463.5	171646.91	202543.35	216275.11
18	ACSR Dog conductor (100 sq. mm)	KM	95106.1	112225.23	132425.77	141403.79
19	ACSR Raccoon conductor (80 sq. mm)	KM	64444.7	76044.80	89732.87	95816.45
20	ACSR Rabbit Conductor (50 mm ²)	KM	50650.0	59767.00	70525.06	75306.42
21	ACSR Weasel conductor (34 sq. mm)	KM	27200.0	32096.00	37873.28	40440.96
	Insulators & H/W fittings					



S. No.	Name of Materials/ Equipment	Unit	Proposed SOR Rate Jharkhand' 2024-25 Excl. GST	Proposed SOR Rate Jharkhand' 2024-25 Incl. GST	Turnkey Rates	
					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
22	33 KV Pin Insulator 10 KN with Pin (Porcelain type)	Each	513.9	606.35	715.49	764.00
23	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Each	421.2	497.02	586.48	626.24
24	33 kV B&S type Disc Insulator (Polymer Type) 90 KN with H/W fitting	Set	640.4	755.65	891.67	952.12
25	33 KV B&S type Disc. Insulator (Porcelain Type) 70 KN with H/W fitting	Set	618.2	729.53	860.85	919.21
26	33 kV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Set	479.7	566.00	667.88	713.16
27	Suspension Hardware suitable for Panther Conductor	Set	2076.2	2449.96	2890.96	3086.96
28	Tension Hardware suitable for Panther Conductor	Set	1064.2	1255.72	1481.75	1582.21
29	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Set	283.0	333.94	394.05	420.76
30	11 KV Pin Insulator 5KN with Pin (Porcelain Type)	Each	178.0	210.04	247.85	264.65
31	11 KV Pin Insulator 5 KN with GI Pin (Polymer Type) and nut & washer	Each	133.1	157.08	185.36	197.93
32	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Set	450.0	531.00	626.58	669.06
33	11 KV B&S type Disc Insulator (Porcelain Type) 45 KN with H/W	Set	618.6	729.89	861.27	919.66
34	11 KV B&S type Disc Insulator (Polymer Type) 45 KN with H/W fitting	Set	400.0	472.00	556.96	594.72
35	LT Pin insulator with Pin (Porcelain type)	Each	29.6	34.92	41.21	44.00
36	LT Pin insulator (Porcelain type)	Each	53.8	63.43	74.85	79.93
37	LT Pin	Each	53.4	62.98	74.31	79.35
38	LT Shackle insulator (Porcelain type)	Each	41.8	49.27	58.13	62.08
39	LT shackle strip with bolts and nut	Kg	42.4	50.00	59.00	63.00
40	33 KV Post Insulator 10 KN (Polymer)	Set	810.0	955.80	1127.84	1204.31
41	11 KV Post Insulator 5 KN (Polymer)	Set	193.0	227.74	268.73	286.95
42	33 KV Stay Insulator	Each	34.6	40.78	48.12	51.38



S. No.	Name of Materials/ Equipment	Unit	Proposed SOR Rate Jharkhand' 2024-25 Excl. GST	Proposed SOR Rate Jharkhand' 2024-25 Incl. GST	Turnkey Rates	
					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
43	11 KV Stay Insulator	Each	64.5	76.14	89.84	95.94
44	LT Stay Insulator	Each	11.0	12.98	15.32	16.35
45	Mid span compression Joints suitable for ACSR Panther conductor	Each	402.5	474.97	560.46	598.46
46	Repairing Sleeve suitable for ACSR Panther conductor	Each	511.0	602.98	711.52	759.75
	Isolator					
47	33 KV Post Insulator 10 KN (Polymer)	Set	42328.7	49947.92	58938.54	62934.38
48	33 KV Isolator 800 Amp ,3 Phase, with out Earth Switch	Set	39744.2	46898.13	55339.79	59091.64
49	33 KV Isolator 630 Amp, 3 Phase, without Earth Switch	Set	25197.0	29732.46	35084.30	37462.90
50	33 KV Isolator 630 Amp, 3 Phase, with Earth Switch	Set	27252.3	32157.72	37946.10	40518.72
51	33 KV Isolator 400 Amp, 3 Phase, with Earth Switch	Set	26053.1	30742.60	36276.27	38735.68
52	11 KV Isolator 630 Amp, 3 Phase, with Earth Switch	Set	21532.6	25408.47	29982.00	32014.68
53	11 KV Isolator 630 Amp, 3 Phase, without Earth Switch	Set	17545.0	20703.10	24429.66	26085.91
54	11 KV Isolator 400 Amp, 3 Phase, without Earth Switch	Set	13909.2	16412.80	19367.11	20680.13
55	11 KV Isolator 400 Amp, 3 Phase, with Earth Switch	Set	14295.6	16868.83	19905.22	21254.73
56	11 KV Isolator 200 Amp Single Phase	Set	10342.1	12203.68	14400.34	15376.63
	AB Switch					
57	33 KV 3 pin type, 3 Phase, AB switch 800 Amp (Porcelain Type)	Set	37963.0	44796.34	52859.68	56443.39
58	33 KV 3 pin type, 3 Phase, AB switch 630 Amp (Porcelain Type)	Set	36088.0	42583.84	50248.93	53655.64
59	33 KV 3 pin type, 3 Phase, AB switch 630 Amp (Polymer Type)	Set	22299.0	26312.82	31049.13	33154.15
60	11 KV 3 pin type, 3 Phase, AB switch 630 Amp (Porcelain Type)	Set	17725.0	20915.50	24680.29	26353.53



S. No.	Name of Materials/ Equipment	Unit	Proposed SOR Rate Jharkhand' 2024-25 Excl. GST	Proposed SOR Rate Jharkhand' 2024-25 Incl. GST	Turnkey Rates	
					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
61	11 KV 3 pin type, 3 Phase, AB switch 400 Amp (Polymer Type)	Set	15816.3	18663.20	22022.58	23515.64
62	11 KV 3 pin type, 3 Phase, AB switch 400 Amp (Porcelain Type)	Set	14100.0	16638.00	19632.84	20963.88
63	11KV 3 pin type, AB Switch 200 Amps (double break)	Set	13950.0	16461.00	19423.98	20740.86
64	12 kV, 3-ph, 200 A, 3 Pin type, Horizontal Mounting type, Gang Operated, AB Switch along with Support Insulators, Base Channel, down Pipe, Arcing Horns etc. complete as per technical specifications, scope of works and approved drawings	Set	13547.3	15985.76	18863.19	20142.05
65	11 KV 3 pin type, 3 Phase, AB switch 800 Amp (Porcelain Type)	Set	29153.9	34401.61	40593.90	43346.03
	Lightening Arrestor					
66	Lightening Arrestor (9kV 5KA) Line type	Set	939.9	1109.08	1308.72	1397.44
67	11 KV Lightening Arrestor (9 KV, 10 KA Class II, station type)(1set=3nos)	Set	5377.0	6344.86	7486.93	7994.52
68	33 KV Lightening Arrestor (30KV,10KA Class II, station type)(1set=3nos)	Set	16017.0	18900.00	22302.00	23814.00
	Earthing					
69	25mm dia MS rod 3 m long for earth mat	Each	867.5	1023.68	1207.94	1289.84
70	Spike Earthing made of 20mm GI solid Rod	Each	556.1	656.21	774.32	826.82
71	Transformer Oil BDV test Kit with automatic operation	Each	510000.0	601800.0	710124.00	758268.00
72	G.I Earthing Strip Size 35x3 mm	Kg	74.1	87.49	103.24	110.24
73	G.I Earthing Strip Size 35x4 mm	Kg	74.1	87.49	103.24	110.24
74	G.I Earthing Strip Size 40x4 mm	Kg	74.1	87.49	103.24	110.24
75	G.I Earthing Strip Size 40x5 mm	Kg	74.1	87.49	103.24	110.24
76	Insulated GI/Alum. Flexible wire 16 sq.mm	Kg	31.2	36.84	43.47	46.42
77	Earthing complete Conventional type having intermittent layer of charcoal and salt/ GI Earthing	Each	19341.6	22823.06	26931.21	28757.05



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
	Pipe 3.1meter long & 40 mm Dia and 50 Kg Bentonite powder					
	Stay set					
78	GI stay set complete for D/s/s (1900x 16mm) with staywire 7/12 SWG and Guy insulator	Set	950.0	1121.00	1322.78	1412.46
79	GI stay set complete for D/s/s (1900x 20mm) with staywire 7/10 SWG and Guy insulator	Set	1150.0	1357.00	1601.26	1709.82
80	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	989.0	1167.03	1377.09	1470.45
81	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	1091.4	1287.80	1519.61	1622.63
82	LT Stay set complete (1700x16 mm) with stay wire 7/12 SWG	Set	780.0	920.40	1086.07	1159.70
83	GI Stay Wire No. 7/8, 7/10, 7/12, 7/14, 7/16	Kg	69.5	82.00	96.76	103.32
	P.G.Clamps					
84	P G clamp for 200 sq mm conductor	Each	274.6	324.00	382.33	408.25
85	P G clamp for 150 sq mm conductor	Each	245.8	290.00	342.20	365.40
86	P G clamp for 100mm ²	Each	180.0	212.40	250.63	267.62
87	P G clamp for 80mm ²	Each	156.8	185.02	218.33	233.13
88	P G Clamps for 34/55mm ²	Each	37.8	44.60	52.63	56.20
89	Bimettalic clamps For Distribution Transformers HT side (25 to 200 KVA)	Each	74.0	87.32	103.04	110.02
90	Bimettalic clamps For Distribution Transformers HT side above (200 KVA)	Each	188.3	222.24	262.25	280.02
91	Bimettalic clamps For Distribution Transformers LT side (25 to 200 KVA)	Each	129.0	152.22	179.62	191.80
92	Bimettalic clamps For Distribution Transformers LT side above (200 KVA)	Each	243.0	286.74	338.35	361.29
93	Bimettalic clamps For Power Transformer 5 MVA	Each	541.0	638.38	753.29	804.36
94	Bimettalic clamps For Power Transformer 10 MVA	Each	541.0	638.38	753.29	804.36
95	Bimettalic clamps For VCBs for 33KV and 11 KV	Each	372.0	438.96	517.97	553.09



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96	Bimettalic clamps For CT PT Unit	Each	370.5	437.16	515.85	550.82
97	P G Clamp 3 bolt for ABT Meters	Each	458.6	541.17	638.58	681.87
Structures, Gantry Columns and Base Plates						
98	Structure for 33kV Lightning Arrestor [Non-Galvanized]	Set	28444.8	33564.84	39606.52	42291.70
99	Structure for 33kV Lightning Arrestor [Galvanized]	Set	34964.2	41257.74	48684.14	51984.76
100	Structure for 33 KV Isolator (MS)	Set	15339.9	18101.11	21359.31	22807.40
101	Structure for 11 KV Isolator (MS)	Set	15339.9	18101.11	21359.31	22807.40
102	Structure for 33 KV Isolator [Galvanized]	Set	16772.1	19791.09	23353.49	24936.78
103	Structure for 11 KV Isolator [Galvanized]	Set	16772.1	19791.09	23353.49	24936.78
104	Structure for 33 KV PT (Non-Galvanised)	Set	28444.8	33564.83	39606.50	42291.69
105	Structure for 33 KV PT [Galvanized]	Set	34964.3	41257.85	48684.27	51984.90
106	Structure for 11 KV PT (Non-Galvanised)	Set	28444.8	33564.83	39606.50	42291.69
107	Structure for 11 KV PT [Galvanized]	Set	41562.8	49044.16	57872.10	61795.64
108	Structure for Post Insulator for 11KV (Galvanised)	Set	4201.7	4958.01	5850.46	6247.10
109	Structure for Post Insulator for 33 KV [Galvanized]	Set	4201.7	4958.01	5850.46	6247.10
110	Structure for 33 KV HG fuse set (Non-Galvanised)	Set	14382.6	16971.42	20026.27	21383.98
111	Structure for 33 KV HG fuse set [Galvanized]	Set	19986.5	23584.08	27829.21	29715.94
112	A swing bus structure	Set	21801.1	25725.28	30355.83	32413.85
113	Gantry Column, Girder structures for 33/11 KV PSS for single Transformer [Galvanized]	Set	48390.3	57100.53	67378.63	71946.67
114	'A' structures for top mounted AB switch on 33 KV Bus [Galvanized]	Set	34964.3	41257.85	48684.27	51984.90
115	'A' structures for top mounted AB switch on 11 KV Bus [Galvanized]	Set	32535.5	38391.85	45302.38	48373.73
116	'A' Structures for 11 KV Take off with top mounted AB Switch and provision of Lightning Arrestor [Galvanized]	Set	34964.3	41257.85	48684.27	51984.90
117	GI Base Plate for 33KV (500x500x10 mm) Avg weight 19.6kg/plate	Each	1486.4	1753.90	2069.60	2209.91
118	Stone Base plate for 11 KV, DSS, LT	Each	210.7	248.65	293.40	313.29



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	Current and Potential Transformers					
119	3 KV CT Outdoor Oil immersed type, 3 Core, 200-100/5-5-1 Amp, Class 0.5 for differential protection	Each	16178.7	19090.86	22527.21	24054.48
120	33 KV CT Outdoor Oil immersed type, 3 Core, 300-150/5-5-1 Amp, Class 0.5 for differential protection	Each	23348.5	27551.18	32510.39	34714.48
121	33 KV CT 800-400/5-5A, 2 Core, 15VA , 5P10 for Protection, 10VA, 0.5 Accuracy for metering	Each	19816.6	23383.56	27592.60	29463.29
122	33 KV CT 400-200/5-5A, 2 Core, 15VA , 5P10 for Protection, 10VA, 0.5 Accuracy for metering	Each	20121.5	23743.40	28017.21	29916.69
123	33 KV CT 300-150/5-5A, 2 Core, 15VA , 5P10 for Protection, 10VA, 0.5 Accuracy for metering	Each	20860.2	24615.09	29045.80	31015.01
124	33 KV CT 200-100/5-5A, 2 Core, 15VA , 5P10 for Protection, 10VA, 0.5 Accuracy for metering	Each	18570.3	21913.00	25857.34	27610.38
125	11 KV CT Outdoor Oil immersed type, 3 Core, 600-300/5-5-1Amp, Class 0.5 for differential protection	Each	11855.4	13989.32	16507.40	17626.55
126	11 KV CT 800-400/5-5A, 2 Core, 15VA , 5P10 for Protection, 10VA, 0.5 Accuracy for metering	Each	17614.7	20785.38	24526.75	26189.58
127	11 KV CT 400-200/5-5A, 2 Core, 15VA , 5P10 for Protection, 10VA, 0.5 Accuracy for metering	Each	18944.9	22354.97	26378.87	28167.27
128	11 KV CT 300-150/5-5A, 2 Core, 15VA , 5P10 for Protection, 10VA, 0.5 Accuracy for metering	Each	17515.7	20668.47	24388.79	26042.27
129	11 KV CT 200-100/5-5A, 2 Core, 15VA , 5P10 for Protection, 10VA, 0.5 Accuracy for metering	Each	13218.6	15597.91	18405.53	19653.37
130	33/√3/110/√3/110/√3 PT (Core 1:0.5S, Core2:3P)	Set	11733.6	13845.64	16337.85	17445.50
131	11/√3/110/√3/110/√3 PT (Core 1:0.5S, Core2:3P)	Set	6645.9	7842.18	9253.77	9881.14
	Power Transformer					
132	33/11 KV Power Transformer 10 MVA Copper Wound, CRGO Core (off load tap changer)	Each	5310000.0	6265800.00	7393644.00	7894908.00
133	33/11 KV Power Transformer 10 MVA Copper Wound, CRGO Core (on load tap changer)	Each	6616138.0	7807042.83	9212310.54	9836873.96
134	33/11 KV Power Transformer 05 MVA Copper Wound, CRGO Core (off load tap changer)	Each	3532000.0	4167760.00	4917956.80	5251377.60



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135	33/11 KV Power Transformer 05 MVA Copper Wound, CRGO Core (on load tap changer)	Each	4268220.0	5036499.60	5943069.53	6345989.50
	Distribution Transformer					
136	11/0.433 KV Distribution Transformer 500 KVA, Copper wound, CRGO M4 Core ONAN; BIS Level 1	Each	728912.2	860116.36	1014937.30	1083746.61
137	11/0.433 KV Distribution Transformer 400 KVA, Copper wound, CRGO M4 Core ONAN; BIS Level 1	Each	542180.1	639772.52	754931.57	806113.37
138	11/0.433 KV Distribution Transformer 315 KVA, Copper wound, CRGO M4 Core ONAN; BIS Level 1	Each	504689.3	595533.34	702729.34	750372.01
139	11/0.433 KV Distribution Transformer 250 KVA, Aluminium wound, CRGO M4 Core ONAN; BIS Level 1	Each	402546.1	475004.38	560505.17	598505.52
140	11/0.433 KV Distribution Transformer 200 KVA, Aluminium Winding, Stack type CRGO Core fitted, Completely Self Protected; 4 star - BEE rating ; BIS Level 1	Each	250000.0	295000.00	348100.00	371700.00
141	BIS Energy Efficiency level-I, 11/0.433 kV 100 kVA, Al. wd., stack type CRGO core, distribution transformer fitted with completely self-protected (CSP)	Each	148005.0	174645.90	206082.16	220053.83
142	BIS Energy Efficiency level-I, 11/0.433 kV 63 kVA, Al. wd., stack type CRGO core, distribution transformer fitted completely self-protected (CSP)	Each	118000.0	139240.00	164303.20	175442.40
143	BIS Energy Efficiency level-1 type tested, 11/.433 kV 25 kVA, Al. wd., stack type CRGO core, distribution transformer fitted completely self -protected (CSP)	Each	60025.4	70830.00	83579.40	89245.80
144	11/0.433 KV, 500 KVA, Dry Type, two winding, 3 phase, Dyn11, 50 Hz, AN, off circuit tap changer with +/-5% in Steps of 2.5%on HV side for station transformer & 4% impedance with losses as per CBIP	Each	863313.6	1018709.99	1202077.79	1283574.59
145	Lighting transformer of 415/415V, 50 KVA, Dry type, two windin, 3 phase, Dyn11, 50 HZ with 4% impendence	Each	49880.9	58859.49	69454.20	74162.96



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146	Trolley Mounted DTR suitable with 250 kVA 11/0.433 kV, BIS Level-I, Distribution Transformers with all accessories	Each	1147881.0	1354499.58	1598309.5	1706669.47
147	11/0.433 kV, 800 kVA Cu. Wd. stack type CRGO core, BIS level –I, distribution transformer	Each	954191.7	1125946.21	1328616.52	1418692.22
	Distribution Box					
148	LT Distribution box suitable for 500 KVA transformer (800 A, isolator & 12 TP MCCB of 160 A)	Each	63058.6	74409.18	87802.83	93755.57
149	LT Distribution box suitable for 315 KVA transformer (600 A, isolator & 9 TP MCCB of 160 A)	Each	50551.5	59650.72	70387.84	75159.90
150	LT Distribution box suitable for 200 KVA transformer (400 A, isolator & 6 TP MCCB of 120 A)	Each	37913.8	44738.24	52791.12	56370.18
151	LT Distribution box suitable for 100 KVA transformer (300 A, isolator & 6 TP MCCB of 200 A)	Each	18956.9	22369.19	26395.64	28185.17
152	LTDB for 200KVA, Isolator 400A, incoming MCCB 4P,400A,50KA, Outgoing MCCB 3P 100A,36KA	Each	44013.5	51935.94	61284.41	65439.29
153	LTDB for 100KVA, Isolator 250A, incoming MCCB 4P,200A,36KA, Outgoing MCCB 3P 100A,36KA	Each	27863.9	32879.34	38797.62	41427.97
154	LTDB for 25KVA, Isolator 63A, incoming MCCB 4P,63A,20KA, Outgoing MCCB 3P 32A,20KA	Each	17911.8	21135.94	24940.41	26631.29
155	LT Distribution box suitable for 63 KVA transformer (200 A, isolator & 6 TP MCCB of 100 A)	Each	13297.5	15691.04	18515.43	19770.71
156	Spring loaded CP multi conn bus-bar in insulated box Single Phase 1 in 6 out (Dist. Box for fixing on pole suitable for AB XLPE Cable)	Each	947.8	1118.35	1319.65	1409.11
157	Spring loaded CP multi conn bus-bar in insulated box Single Phase 1 in 9 out (Dist. Box for fixing on pole suitable for AB XLPE Cable)	Each	1081.6	1276.23	1505.95	1608.05
158	Spring loaded CP multi conn bus-bar in insulated box Three Phase 1 in 3 out (Dist. Box for fixing on pole suitable for AB XLPE Cable)	Each	1176.3	1388.06	1637.91	1748.96



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159	Spring loaded CP multi conn bus-bar in insulated box Three Phase 1 in 5 out (Dist. Box for fixing on pole suitable for AB XLPE Cable)	Each	1753.9	2069.60	2442.12	2607.69
160	Spring loaded CP multi conn bus-bar in insulated box Three Phase 1 in 8 out (Dist. Box for fixing on pole suitable for AB XLPE Cable)	Each	2922.4	3448.45	4069.17	4345.05
161	Spring loaded distribution Bus Bar insulated Box for fixing on pole suitable for AB XLPE Cable and three phase connection 1 incoming and out going 3 phase connection as per field requirement	Each	1280.0	1510.40	1782.27	1903.10
	VCB, C&R Panel					
162	33 KV VCB, 1250 Amp., Outdoor Type, 26.3 KA for 1 sec rupturing capacity , with CR pannel, & C.T. Ratio 1200-600-300/1-1A, 2 Core, 15VA, 5P10 for protection, Accuracy 0.5, 10VA for metering. PT 33KV / 110V, Accuracy class 0.5, VA Burden 50VA, with metering system in Panel with numeric Relay annunciator	Set	755397.08	891368.46	1051814.78	1123124.26
163	33 KV VCB, 1250 Amp., Outdoor Type, 16 KA for 1 sec rupturing capacity , with CR pannel, & C.T. Ratio 600-300/1-1A or 400-200/1-1A, 2 Core, 15VA, 5P10 for protection, Accuracy 0.5, 10VA for metering. PT 33KV / 110V, Accuracy class 0.5, VA Burden 50VA,	Set	273123.0	322285.14	380296.47	4076079.28
164	11 KV VCB, Outdoor type, 1250 A, 25 KA for 3 sec. rupturing capacity wth C&R Panel. CT 1200-600-300/5-5A, 2 Core,15VA, 5P10 for protection, Accuracy 0.5, 10VA for metering. P.T. 11 KV/110V, Accuracy class 0.5, 30 VA with metering system in Panel	Set	565763.0	667600.34	787768.40	841176.43
165	11 KV VCB, Outdoor type, 630 A, 25 KA for 3 sec. rupturing capacity wth C&R Panel. CT 600-300/5-5A or 400-200/5-5A, 2 Core,15VA,	Set	413240.2	487623.20	575395.38	614405.23



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	5P10 for protection, Accuracy 0.5, 10VA for metering. P.T. 11 KV/110V, Accuracy class 0.5, 30 VA					
166	11 KV VCB, Outdoor type, 800 A,for Incoming, 18.4 KA for 1 sec. rupturing capacity with Panel (Indoor) 24 V DC operated with CT 600-300/5-5A or 400-200/5-5A, 2 Core,15VA, 5P10 for protection, Accuracy 0.5, 10VA for metering. P.T. 33KV/110V, Accuracy class 0.5, 30 VA	Set	254432.1	300229.91	354271.30	378289.69
167	11 KV VCB, Outdoor type, 400 A,for outgoing, 18.4 KA for 1 sec. rupturing capacity with Panel (Indoor) 24 V DC operated with CT 600-300/5-5A or 400-200/5-5A, 2 Core,15VA, 5P10 for protection, Accuracy 0.5, 10VA for metering. P.T. 33KV/110V, Accuracy class 0.5, 30 VA	Set	282777.4	333677.29	393739.20	420433.39
168	Indoor type control and relay panel for 33kV, VCB (Feeder Breaker) consisting of A-meter, volt-meter, Relays & accessories complete.	Set	61805.9	72931.02	86058.60	91893.08
169	Indoor type control and relay panel for 33kV, VCB (Transformer Breaker) consisting of A-meter, volt-meter, Relays & accessories complete.	Set	56691.0	66895.33	78936.49	84288.12
170	Indoor type control and relay panel for 11kV, VCB (Transformer Breaker) consisting of A-meter, volt-meter, Relays & accessories complete.	Set	56691.0	66895.33	78936.49	84288.12
171	Indoor type control and relay panel for 11kV, VCB (Feeder Breaker) consisting of A-meter, volt-meter, Relays & accessories complete.	Set	58253.9	68739.59	81112.71	86611.88
	Distribution Board					
172	415V AC Power Distribution Board	Set	89789.8	105952.01	125023.37	133499.53
173	30V DC Distribution Board	Set	41033.1	48419.08	57134.51	61008.04
	Pipe Connector					
174	Aluminium pipe connector	Each	250.0	295.00	348.10	371.70



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175	Connector Pipe to Panther	Each	250.0	295.00	348.10	371.70
176	Connector Panther to Panther	Each	250.0	295.00	348.10	371.70
177	Connector Panther to AB Switch	Each	250.0	295.00	348.10	371.70
178	Connector Pipe to Pipe	Each	250.0	295.00	348.10	371.70
179	Connector Pipe to Dog	Each	250.0	295.00	348.10	371.70
180	Connector Pipe to AB Switch	Each	250.0	295.00	348.10	371.70
181	Connector Dog to AB Switch	Each	250.0	295.00	348.10	371.70
182	Connector Wolf to Wolf	Each	250.0	295.00	348.10	371.70
183	Connector Wolf to AB Switch	Each	250.0	295.00	348.10	371.70
	Copper Control Cable					
184	2.5 mm2 copper 2 core control cable (Armoured)	Mtr	96.0	113.28	133.67	142.73
185	2.5 mm2 copper 2 core control cable (UnArmoured)	Mtr	46.9	55.29	65.25	69.67
186	2.5 mm2 copper 4 core control cable (Armoured)	Mtr	151.9	179.27	211.53	225.87
187	2.5 mm2 copper 4 core control cable (UnArmoured)	Mtr	83.9	98.99	116.81	124.73
188	2.5 mm2 copper 6 core control cable (Armoured)	Mtr	200.0	236.00	278.48	297.36
189	2.5 mm ² copper 6 core Un-armoured cable	Mtr	120.9	142.72	168.41	179.83
190	7 Core x 2.5 sq.mm. Armoured Control cable	Mtr	163.3	192.69	227.38	242.79
191	2.5 mm2 copper 8 core control cable (UnArmoured)	Mtr	160.1	188.92	222.92	238.04
192	2.5 mm2 copper 10 core control cable (Armoured)	Mtr	270.0	318.60	375.95	401.44
193	2.5 mm2 copper 10 core control cable (UnArmoured)	Mtr	147.3	173.76	205.03	218.93
194	2.5 mm2 copper 12 core control cable (Armoured)	Mtr	320.0	377.60	445.57	475.78
195	2.5 mm2 copper 12 core control cable (UnArmoured)	Mtr	159.3	188.02	221.87	236.91
196	19 Core x 2.5 sq.mm.Armoured Control cable	Mtr	419.9	495.47	584.66	624.30
	Capacitor Bank					
197	Fully automatic Capacitor bank with automatic control panel, isolator, indoor type suitable Vacuum Circuit Breaker, mounting structures etc as required as per technical specifications, drawings, scope of the works of following capacities: (Banks in	Set	1461247.1	1724271.58	2034640.46	2172582.19



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	Multiple of 600 KVAR as per Specification)-3600 KVAR					
198	1815 kVAR 12.1 kV 3-phase 50 Hz Outdoor type Capacitor bank having step as 363 kvar+726 kvar+726 Kvar 12.1 kv Bank shall be complete with capacitor units of 121 kVAR at 6.98 kV including allied materials such as suitable size of aluminium busbars, pin/pos	Set	191404.2	225857.00	266511.26	284579.82
199	Fully automatic Capacitor bank with automatic control panel, isolator, indoor type suitable Vacuum Circuit Breaker, mounting structures etc as required as per technical specifications, drawings, scope of the works of following capacities: (Banks in Multiple of 600 KVAR as per Specification)-1200 KVAR	Set	835094.9	985411.93	1162786.08	1241619.04
200	1089 kVAR 12.1 kV 3-phase 50 Hz Outdoor type Capacitor bank having step as 363	Set	144748.9	170803.73	201548.40	215212.70
	Metering Equipment					
201	33 KV Metering Cubicle with PT & CT ,0.5s accuracy class for CT and 0.5S accuracy class for PT of different capacity	Set	256561.5	302742.57	357236.23	381455.64
202	33 kV outdoor type oil immersed CT-PT combined metering Unit 0.5s accuracy class for CT and 0.5S accuracy class for PT of different capacity	Set	62700.0	73986.00	87303.48	93222.36
203	33 KV, Three phase three wire/Three Phase Four Wire, Accuracy class 0.2s, DLMS Compliant ABT Meter (Modular rack-mounted) of different capacity	Each	155881.5	183940.12	217049.34	231764.55
204	33 KV, Three phase three wire/Three Phase Four Wire, Accuracy class 0.2s, DLMS Compliant ABT Meter (projection type) of different capacity	Each	155881.8	183940.56	217049.86	231765.10



S. No.	Name of Materials/ Equipment	Unit	Proposed SOR Rate Jharkhand' 2024-25 Excl. GST	Proposed SOR Rate Jharkhand' 2024-25 Incl. GST	Turnkey Rates	
					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
205	33 kV/ 110 V, Three Phase Four Wire,(0.2s accuracy class for CT and 0.2 accuracy class for PT), ratio-1600/1A or 1200/1A CT-PT combined Metering Unit for Feeder	Each	310449.5	366330.35	432269.81	461576.24
206	Metering Panel, Data Concentrator Unit (DCU) with Modem	Set	577912.3	681936.52	804685.09	859240.02
207	Structure for 33 kV Metering Unit	Set	23900.0	28202.03	33278.39	35534.56
208	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.2S (-/110V & -/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	Set	13938.6	16447.57	19408.13	20723.93
209	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.5S (-/110V & -/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	Nos.	14237.3	16800.00	19824.00	21168.00
210	Trivector Energy Meter of 800/5 Amp	Each	10483.2	12370.21	14596.85	15586.47
211	Trivector Energy Meter of 400/5 Amp	Each	10483.2	12370.21	14596.85	15586.47
212	11 KV, Outdoor type oil immersed CT-PT combined metering unit, 3 phase 4 wire (11kV/110V) [12 KV PT 50VA Burden 0.5S Accuracy class; CT 20/5A, 30/5A, 60/5A, 100/5A, 200/5A, 400/5A, 15 VA, 0.5S accuracy class]	Set	31600.0	37288.00	43999.84	46982.88
213	11 KV Metering Cubicle with PT ratio 11KV/√3/110V and CT ratio 20/5A, 30/5A, 60/5A, 100/5A, 200/5A, 400/5A, 0.5 accuracy class for both	Set	67748.9	79943.75	94333.62	100729.12
214	LTCT Electronic Meter (200/150/100/5) 3 Phase 4 Wire with meter box, Class 0.5s accuracy	Each	15032.4	17738.27	20931.16	22350.22
215	AC 3 Phase, 4 Wire, 40-200Amp LT Electronic Trivector accuracy class 1.0 DLMS Compliant Category A Meter with inbuilt CT's and inbuilt GSM/GPRS modem for DI rating upto 100 KVA	Each	10932.2	12900.00	15222.00	16253.99



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
216	Structure for D.T Meter	Set	2816.5	3323.46	3921.68	4187.56
217	AC 3 Phase DTR Meter complete set above 100KVA 400/5A	Each	10483.2	12370.21	14596.85	15586.47
218	LT electronic Trivector Meter 40-200 Amp.	Each	7470.5	8815.19	10401.92	11107.14
219	11 KV/110, 3 phase 4 wire accuracy class DLMS compliant trivector energy meter ratio 200/5A	Each	13938.6	16447.57	19408.13	20723.93
220	11 KV/110, 3 phase 4 wire accuracy class DLMS compliant trivector energy meter ratio 400/5A	Each	13938.6	16447.57	19408.13	20723.93
221	11 KV/110, 3 phase 4 wire accuracy class DLMS compliant trivector energy meter ratio 600/5A	Each	13938.6	16447.57	19408.13	20723.93
222	33 KV/110, 3 phase 4 wire accuracy class DLMS compliant trivector energy meter ratio 400/1A	Each	13938.6	16447.57	19408.13	20723.93
223	33 KV/110, 3 phase 4 wire accuracy class DLMS compliant trivector energy meter ratio 600/1A	Each	13938.6	16447.57	19408.13	20723.93
224	33KV/110V , 3 phase, 4 wire , accuracy class 0.5 CT- PT, combined metering unit for feeder, ratio 400/1A	Each	215195.0	253930.10	299637.52	319951.93
225	11KV/110, 3 phase, 4 wire , accuracy class 0.5 CT- PT, combined metering unit for feeder, ratio 400/5A	Each	121535.0	143411.30	169225.33	180698.24
226	11 KV/110 V 3 phase 4 wire Accuracy Class 0.5 CT- PT combined metering unit for feeder, Ratio 200/5A	Each	121535.0	143411.30	169225.33	180698.24
227	33KV/110V , 3 phase, 4 wire , accuracy class 0.5 CT- PT, combined metering unit for feeder, ratio 600/1A	Each	215195.0	253930.10	299637.52	319951.93
228	11 KV /110, 3 phase 4 wire Accuracy class 0.5 CT- PT combined metering unit for feeder, Ratio 600/5 A	Each	121535.0	143411.30	169225.33	180698.24
229	LT Static Energy Meter, 3 Phase 4 Wire, direct connected, 100 Amp. with Meter Box, Class 1.0 accuracy	Each	7470.5	8815.19	10401.92	11107.14
230	Three Phase 4 - wire AC static whole current meter, Electronic energy meter with box(10-60)Amp	Each	5507.0	6498.24	7667.93	8187.79
231	Three Phase 4 - wire AC static whole current meter, Electronic energy meter with box(20-100)Amp	Each	3220.3	3800.00	4484.00	4788.00



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
232	Single Phase Electronic Meter,two wire, 5-30 Amp. class 1.0 accuracy with Box	Set	1472.0	1736.96	2049.61	2188.57
233	Single Phase RF Meter with Box as per IS 13779 standards, DLMS compliant	Each	1031.7	1217.36	1436.48	1533.87
234	Three Phase RF meter with Box as per IS 13779 standards, DLMS compliant	Each	7211.6	8509.68	10041.42	10722.20
235	Single phase RS 232/ 485 Prepaid energy meter	Each	7642.3	9017.90	10641.12	11362.55
236	Three phase RS 232/ 485 Prepaid energy meter	Each	11941.2	14090.61	16626.92	17754.17
237	Single phase RF Prepaid energy meter	Each	10508.9	12400.49	14632.58	15624.62
238	Three phase RF Prepaid energy meter	Each	13852.3	16345.68	19287.90	20595.55
239	Single phase GPRS/GSM Prepaid energy meter	Each	13254.3	15640.08	18455.30	19706.50
240	Three phase GPRS/GSM Prepaid energy meter	Each	16358.3	19302.79	22777.29	24321.52
241	PVC Cable gland sizes 20 mm,	Each	66.9	78.94	93.15	99.47
242	PVC Cable gland sizes 25 mm,	Each	72.5	85.52	100.91	107.76
243	PVC Cable gland sizes 32 mm	Each	78.1	92.10	108.68	116.04
244	PVC Cable gland sizes 40 mm	Each	83.6	98.68	116.44	124.33
245	PVC Cable gland sizes 50 mm	Each	94.8	111.83	131.96	140.91
246	PVC Cable gland sizes 63 mm	Each	100.4	118.41	139.73	149.20
247	PVC Cable gland sizes 75 mm	Each	111.5	131.57	155.25	165.78
248	Single Phase Whole Current Smart Meter (5-30 Amp) with RF communication Module (Excl. NIC Card) incl. Polycarbonate Meter Box	Each	2849.8	3362.71	3967.99	4237.01
249	Three Phase Whole Current Smart Meter (10-50 Amp) with RF communication Module (Excl. NIC Card) incl. Polycarbonate Meter Box	Each	5307.2	6262.48	7389.73	7890.73
250	Three Phase Whole Current Smart Meter (20-100 Amp) with RF communication Module (Excl. NIC Card) incl. Polycarbonate Meter Box	Each	6576.3	7760.08	9156.89	9777.70
251	LT Three Phase CT Operated Smart Tri Vector Meter with RF communication Module (Excl. NIC Card) for	Each	10022.2	11826.21	13954.93	14901.02



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
	consumer incl. SMC Double Chambered Meter Box with embeded CT (CT Ratio 100/5 Amp)					
252	LT Three Phase CT Operated Smart Tri Vector Meter with RF communication Module (Excl. NIC Card) for consumer incl. SMC Double Chambered Meter Box with embeded CT (CT Ratio 200/5 Amp)	Each	10022.2	11826.21	13954.93	14901.02
253	LT Three Phase CT Operated Smart Tri Vector Meter with RF communication Module (Excl. NIC Card) for consumer incl. SMC Double Chambered Meter Box with embeded CT (CT Ratio -/5 Amp)	Each	8654.9	10212.83	12051.14	12868.17
254	HT Three Phase CT Operated Smart Tri Vector Meter with RF communication Module (Excl. NIC Card) for Feeder (CT Raio -/5Amp)	Each	5369.2	6335.62	7476.03	7982.88
255	HT Three Phase CT Operated Smart Tri Vector Meter with RF communication Module (Excl. NIC Card) for consumer incl. meter Box (CT Raio -/5Amp)	Each	5369.2	6335.62	7476.03	7982.88
256	Field Routers/Collectors/DCU along with installation Clamp and Accessories- Complete	Each	43827.6	51716.56	61025.54	65162.87
257	Network Interface Card (NIC) for Smart Meter	Each	1229.9	1451.23	1712.45	1828.55
258	Centralized management Console with single 24" LED Monitor	Each	147472.0	174016.98	205340.04	219261.40
259	Work Station Consoles with dual 24" LED Monitor along with Operating System, antivirus & License	Each	171364.9	202210.56	238608.47	254785.31
260	Network Laserjet (B/W) Photocopy, scanning and Printing	Each	44467.3	52471.37	61916.21	66113.92
261	A4 Size inkjet/ Bubble jet printer	Each	13273.8	15663.09	18482.45	19735.50
262	A3 Size inkjet Color printer/ All in One Color laserjet Printer	Each	1007567.1	1188929.17	1402936.42	1498050.76
263	L.T. CT ratio 50/5A, 5VA, 0.5 Accuracy for metering, Epoxy casted	Each	299.5	353.35	416.96	445.23



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
264	L.T. CT ratio 100/5A, 5VA, 0.5 Accuracy for metering, Epoxy casted	Each	336.5	397.03	468.49	500.26
265	L.T. CT ratio 200/5A, 5VA, 0.5 Accuracy for metering, Epoxy casted	Each	356.8	421.02	496.81	530.49
266	L.T. CT ratio 300/5A, 5VA, 0.5 Accuracy for metering, Epoxy casted	Each	238.5	281.39	332.03	354.55
267	L.T. CT ratio 400/5A, 5VA, 0.5 Accuracy for metering, Epoxy casted	Each	269.4	317.88	375.09	400.52
268	L.T. CT ratio 500/5A, 5VA, 0.5 Accuracy for metering, Epoxy casted	Each	614.2	724.75	855.21	913.19
269	L.T. CT ratio 600/5A, 5VA, 0.5 Accuracy for metering, Epoxy casted	Each	614.2	724.75	855.21	913.19
270	L.T. CT ratio 800/5A, 5VA, 0.5 Accuracy for metering, Epoxy casted	Each	614.2	724.75	855.21	913.19
	GI Service Pipe					
271	GI service pipe 25 mm diameter 3 mtr length	Each	376.4	444.14	524.09	559.62
272	GI service pipe 40 mm diameter 3 mtr length	Each	444.4	524.35	618.73	660.68
273	GI Service pipe 60mm diameter 3 mtr length	Each	539.2	636.28	750.81	801.71
274	G.I. Pipe 3" dia	Mtr	682.4	805.20	950.14	1014.55
	Ring Main units					
275	11 KV 3 Way RMU, 2OD + 1VL, One Incomer + One Breaker + One Outgoing	Set	778649.7	918806.63	1084191.82	1157696.35
276	11 KV 4 Way RMU, 2OD + 2VL, (One Incomer + Two Breakers + One Outgoing	Set	1106047.7	1305136.25	1540060.77	1644471.67
277	11 KV 5 Way RMU, 2OD + 3VL, (One Incomer + Three Breakers + One Outgoing)	Set	1427614.1	1684584.63	1987809.87	2122576.64
278	11 KV 6 Way RMU, 2OD + 4VL, (One Incomer + Four Breakers + One Outgoing	Set	1749180.5	2064033.02	2435558.97	2600681.61
	XLPE insulated Cables					
279	33 KV HT XLPE Cable Single Core 630mm2 (Armoured)	Mtr	1364.9	1610.53	1900.43	2029.27



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
280	1C x 400mm ² cable (33 KV power cable)	Mtr	1032.2	1218.01	1437.25	1534.69
281	33 KV HT XLPE Cable 3 core 400 sq mm (Armoured)	Mtr	2411.4	2845.39	3357.56	3585.20
282	33 KV HT XLPE Cable 3 Core 300mm ² (Armoured)	Mtr	2080.2	2454.60	2896.43	3092.80
283	33 KV HT XLPE Cable 3 Core 240mm ² (Armoured)	Mtr	1721.0	2030.75	2396.28	2558.74
284	33 KV HT XLPE Cable 3 Core 185mm ² (Armoured)	Mtr	1970.5	2325.19	2743.72	2929.74
285	33 KV HT XLPE Cable 3 Core 150mm ² (Armoured)	Mtr	1682.0	1984.71	2341.96	2500.74
286	33 KV HT XLPE Cable 3 Core 120mm ² (Armoured)	Mtr	1529.2	1804.47	2129.27	2273.63
287	33 KV HT XLPE Cable 3 Core 95mm ² (Armoured)	Mtr	1388.4	1638.31	1933.21	2064.27
288	33 KV HT XLPE Cable 3 Core 70mm ² (Armoured)	Mtr	1215.9	1434.75	1693.01	1807.79
289	33 KV HT XLPE Cable 3 Core 50mm ² (Armoured)	Mtr	1083.2	1278.16	1508.23	1610.49
290	11 kV 3 Core x 35 sq. mm cable (Armoured)	Mtr	1129.1	1332.30	1572.11	1678.70
291	11 KV XLPE Cable single core 630mm ² (Armoured)	Mtr	1079.2	1273.49	1502.72	1604.60
292	3Core x 630sq mm (11 KV power cable)	Mtr	3590.6	4236.92	4999.57	5338.52
293	11 KV XLPE Cable 3 core 400mm ² (Armoured)	Mtr	1630.7	1924.25	2270.61	2424.55
294	11 KV XLPE Cable 3 Core 300mm ² (Armoured)	Mtr	1470.0	1734.60	2046.83	2185.60
295	11 KV XLPE Cable 3 Core 240 mm ² (Armoured)	Mtr	1257.1	1483.41	1750.43	1869.10
296	11 KV XLPE Cable 3 Core 185mm ² (Armoured)	Mtr	1002.3	1182.66	1395.54	1490.15
297	11 KV XLPE Cable 3 Core 150mm ² (Armoured)	Mtr	928.6	1095.80	1293.04	1380.70
298	11 KV XLPE Cable 3 Core 120mm ² (Armoured)	Mtr	873.5	1030.78	1216.32	1298.79
299	11 KV XLPE Cable 3 Core 95mm ² (Armoured)	Mtr	751.1	886.31	1045.85	1116.75
300	11 KV XLPE Cable 3 Core 70mm ² (Armoured)	Mtr	696.0	821.22	969.04	1034.74
301	11 KV XLPE Cable 3 Core 50mm ² (Armoured)	Mtr	526.7	621.51	733.38	783.10
302	11 KV XLPE Cable 3 Core 25mm ² (Armoured)	Mtr	340.3	401.52	473.79	505.91
303	Power Cable for DT Meter 120 sq.mm unarmoured	Mtr	279.9	330.23	389.67	416.09
304	Power Cable for DT Meter 240 sq.mm unarmoured	Mtr	279.9	330.23	389.67	416.09
305	LT XLPE cable 4 Core 16 mm ² (Armoured)	Mtr	234.3	276.47	326.23	348.35
306	LT XLPE Cable 4 Core 16mm ² (UnArmoured)	Mtr	68.5	80.79	95.34	101.80
307	LT XLPE Cable 4 Core 25mm ² (Armoured)	Mtr	50.9	60.00	70.80	75.60
308	LT XLPE Cable 3.5 Core 300mm ² (Armoured)	Mtr	1256.1	1482.19	1748.98	1867.55
309	LT XLPE Cable 3.5 Core 185mm ² (Armoured)	Mtr	1121.8	1323.72	1561.99	1667.89
310	LT XLPE Cable 3.5 Core 120mm ² (Armoured)	Mtr	617.8	728.99	860.21	918.53



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
311	LT XLPE Cable 3.5 core 95 mm2 (Armoured)	Mtr	507.0	598.22	705.91	753.76
312	LT XLPE cable 3.5 core 70 Sq. mm. (Armoured)	Mtr	426.0	502.64	593.12	633.33
313	LT XLPE Cable 3.5 Core 50mm2 (Armoured)	Mtr	346.7	409.13	482.77	515.50
314	LT XLPE cable 3.5 core 35 Sq. mm. (Armoured)	Mtr	298.5	352.27	415.67	443.85
315	LT XLPE Cable 3.5 Core 25mm2 (Armoured)	Mtr	271.2	320.00	377.60	403.21
316	LT XLPE Cable 2 Core 16 mm2 (Armoured)	Mtr	104.0	122.70	144.79	154.60
317	LT XLPE Cable 2 Core 10mm2 (Armoured)	Mtr	50.5	59.56	70.28	75.05
318	LT XLPE Cable 2 Core 6mm2 (Armoured)	Mtr	41.1	48.46	57.18	61.06
319	LT XLPE Cable 1Cx120 sqmm (Armoured)	Mtr	88.6	104.53	123.34	131.70
320	LT XLPE Single Core Cable 95 mm2 (Armoured)	Mtr	80.5	95.00	112.10	119.70
321	LT XLPE Single Core Cable 50 mm2 (Armoured)	Mtr	76.2	89.93	106.12	113.32
322	LT XLPE Single Core Cable 25 mm2 (Armoured)	Mtr	51.9	61.21	72.22	77.12
323	LT XLPE single core unarmoured 1 x 400 sqmm	Mtr	314.8	371.41	438.26	467.97
	PVC insulated Cables					
324	3.5 Core 300 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	Mtr	891.6	1052.12	1241.51	1325.68
325	3.5 Core 240 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	Mtr	835.8	986.21	1163.73	1242.63
326	3.5 Core 185 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	Mtr	821.7	969.55	1144.07	1221.63
327	3.5 Core 150 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	Mtr	468.5	552.85	652.37	696.60
328	3.5 Core 70 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	Mtr	242.8	286.47	338.03	360.95
329	3.5 Core 35 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	Mtr	142.1	167.68	197.86	211.27
330	2 Core 16 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	Mtr	42.2	49.75	58.70	62.68
331	1 Core 120 Sq. mm Unarmoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	Mtr	67.9	80.16	94.59	101.00



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
332	LT PVC Cable 3.5 core 95 mm2 (Armoured)	Mtr	223.9	264.21	311.77	332.90
333	LT PVC Cable 3.5 Core 10 mm2 (armoured)	Mtr	57.9	68.32	80.62	86.08
334	LT PVC Cable 3.5 Core 6 mm2 (armoured)	Mtr	46.7	55.11	65.03	69.44
335	LT PVC Cable 2 Core 16 mm2 (armoured)	Mtr	34.4	40.59	47.90	51.15
336	LT PVC Cable 2 Core 10 mm2 (armoured)	Mtr	40.0	47.20	55.70	59.47
337	LT PVC Cable 2 Core 6 mm2 (armoured)	Mtr	37.9	44.75	52.80	56.38
338	LT PVC Cable 2 Core 4 mm2 (armoured)	Mtr	29.5	34.83	41.10	43.89
339	LT PVC Cable 1 Core 16 mm2 (armoured)	Mtr	12.0	14.20	16.75	17.89
340	LT PVC Cable 1 Core 50 mm2 (armoured)	Mtr	31.5	37.16	43.85	46.82
341	LT PVC Cable 1 Core 70 mm2 (armoured)	Mtr	65.6	77.43	91.37	97.56
342	LT PVC Cable 1 Core 150 mm2 (armoured)	Mtr	160.4	189.27	223.34	238.48
343	LT PVC Cable 1 Core 300 mm2 (armoured)	Mtr	293.0	345.79	408.03	435.69
344	PVC Single Phase service cable 3.5 core 25 mm2 (Amoured)	Mtr	85.0	100.24	118.28	126.30
345	2.5 sq mm twin core PVC service cable (Armoured)	Mtr	26.0	30.63	36.15	38.60
346	4 sq mm twin core PVC service cable (UnArmoured)	Mtr	31.1	36.75	43.36	46.30
347	PVC Single Phase service cable 2 core 2.5 mm2 (UnArmoured)	Mtr	8.0	9.46	11.17	11.92
348	PVC Single Phase service cable 2 core 6 mm2 (UnArmoured)	Mtr	17.1	20.14	23.77	25.38
349	PVC Three Phase service cable 4 core 6 mm2 (Armoured)	Mtr	51.7	60.95	71.92	76.80
350	PVC Three Phase service cable 4 core 8 mm2 (Armoured)	Mtr	62.7	74.03	87.35	93.27
351	PVC Three Phase service cable 4 core 10 mm2 (Armoured)	Mtr	75.0	88.55	104.49	111.57
352	PVC Three Phase service cable 4 core 16 mm2 (Armoured)	Mtr	97.3	114.76	135.41	144.59
353	PVC Three Phase service cable 4 core 25 mm2 (Armoured)	Mtr	125.5	148.06	174.71	186.56



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
354	PVC Three Phase service cable 4 core 10 mm2 (UnArmoured)	Mtr	28.7	33.84	39.93	42.64
	Aerial Bunched Cables					
355	11 KV XLPE HT AB Cable 3Cx185mm2+240mm2 bare messenger	Mtr	956.0	1128.09	1331.15	1421.39
356	11 KV XLPE HT AB Cable 3Cx185mm2+150mm2 bare messenger	Mtr	645.6	761.78	898.91	959.85
357	11 KV XLPE HT AB Cable 3Cx150mm2+120mm2 bare messenger	Mtr	556.0	656.03	774.12	826.60
358	11kV XLPE HT AB Cable 3cx120 mm2 + 1x95mm2 bare messenger	Mtr	555.1	654.98	772.87	825.27
359	11 KV XLPE HT AB Cable 3Cx95mm2+1x80mm2 bare messenger	Mtr	501.9	592.27	698.87	746.25
360	11 KV XLPE HT AB Cable 3Cx70mm2+1x70mm2 bare messenger	Mtr	401.1	473.29	558.48	596.34
361	11 KV XLPE HT AB Cable 3Cx50mm2+1x70mm2 bare messenger	Mtr	395.7	466.88	550.92	588.27
362	11 KV XLPE HT AB Cable 3Cx35mm2+1x70mm2 bare messenger	Mtr	303.1	357.60	421.97	450.57
363	11 KV XLPE HT AB Cable 3Cx35mm2+1x35mm2 bare messenger	Mtr	398.8	470.57	555.27	592.92
364	LT XLPE AB cable 3Cx120+1Cx70+1Cx16 mm2	Mtr	332.2	392.02	462.58	493.94
365	LT XLPE AB Cable 3Cx95 sqmm + 1x70 sqmm+1x70 sq mm	Mtr	236.4	278.97	329.19	351.51
366	LT XLPE AB cable 3Cx95+1Cx70+1Cx16 mm2	Mtr	268.4	316.69	373.69	399.03
367	LT XLPE AB cable 3x70+1x50+1x16 (Street Light) mm2	Mtr	205.3	242.28	285.90	305.28
368	LT XLPE AB Cable 3Cx50 sqmm + 1x35 sqmm+1x16 sq mm	Mtr	177.0	208.82	246.41	263.12
369	LT XLPE AB Cable 3x50+1x25+1x35 mm2	Mtr	120.7	142.42	168.06	179.45
370	LT XLPE AB Cables 1x16(ph) + 1x25 (Bare conductor + 1x16 (Insulated Street Lighting) mm2	Mtr	53.9	63.61	75.06	80.15



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
371	LT XLPE AB Cable 3Cx120+70mm2	Mtr	233.6	275.61	325.22	347.27
372	LT XLPE AB Cable 3Cx95+70mm2	Mtr	192.8	227.52	268.48	286.68
373	LT XLPE AB Cable 3Cx50+35mm2	Mtr	165.2	194.98	230.08	245.68
374	LT XLPE AB Cable 3Cx35+25mm2	Mtr	111.3	131.36	155.01	165.52
375	LT XLPE AB Cable 3Cx25+25mm2	Mtr	94.8	111.89	132.03	140.98
376	LT XLPE AB Cable 3Cx16+25mm2	Mtr	70.7	83.41	98.42	105.09
377	LT XLPE AB Cable 1Cx16+25mm2 Single phase	Mtr	28.3	33.42	39.44	42.11
	AB Cable accessories					
378	11 kV AB Cable Straight thru' joint kit suitable for 35-70 sqmm	Set	4231.1	4992.65	5891.32	6290.73
379	11 kV AB Cable Straight thru' joint kit suitable for 95-120 sqmm	Set	4452.5	5253.97	6199.68	6620.00
380	11 kV ABC Termination kit 35-70 sqmm	Set	2678.6	3160.79	3729.73	3982.60
381	11 kV ABC Termination kit 95-120 sqmm	Set	2950.0	3481.00	4107.58	4386.06
382	LT Pre insulated mid span joint suitable 25 mm2 phases	Each	111.5	131.57	155.25	165.78
383	LT Pre insulated mid span joint suitable 35 mm2 phases	Each	123.7	146.01	172.29	183.97
384	LT Pre insulated mid span joint suitable 50 mm2 phases	Each	116.2	137.15	161.83	172.80
385	LT Pre insulated mid span joint suitable 70 mm2 Phases	Each	152.8	180.36	212.83	227.26
386	LT Pre insulated mid span joint suitable 95 mm2 Phases	Each	166.0	195.88	231.14	246.81
387	LT Pre insulated mid span joint suitable 120 mm2 Phases	Each	200.5	236.61	279.20	298.13
388	Pre insulated mid span joint suitable for 25 mm2 Neutral messenger	Each	153.1	180.69	213.21	227.66
389	Pre insulated mid span joint suitable for 35 mm2 Neutral messenger	Each	275.6	325.25	383.79	409.81



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
390	Pre insulated mid span joint suitable for 50 mm ² Neutral messenger	Each	177.6	209.60	247.33	264.09
391	Insulation Piercing Connector for DB charging	Each	78.0	91.98	108.54	115.90
392	Insulation piercing connector branching suitable for T Joints	Each	206.3	243.40	287.22	306.69
393	Piercing Connector for LT AB Cable	Each	118.4	139.70	164.84	176.02
394	Insulation piercing connector-Type-I (main 16-95 mm ² & tap 4-35 mm ²)	Each	85.0	100.30	118.35	126.38
395	Insulation piercing connector-Type-II (main 16-95 mm ² & tap 16-95 sq mm)	Each	78.2	92.30	108.91	116.30
396	Insulation piercing connector-Type-III (main 25-150 mm ² & tap 25-150 sq mm)	Each	80.0	94.40	111.39	118.94
397	Satellite Connector	Each	481.6	568.29	670.59	716.05
398	LT AB Cable accessory, 1.1Mtr. Stainless steel strap IF207(20x0.7)	Mtr	36.7	43.36	51.17	54.64
399	Buckle for strap	Each	7.8	9.20	10.86	11.60
400	Suspension clamp with eyehook	Set	360.2	425.00	501.50	535.50
401	Suspension Clamp Assembly Suitable Upto 35 Sqmm bare messenger (Including 1 No. Suspension Clamp with Bracket, 2 Mtr Stainless Steel Strap & 2 Nos. SS buckles)	Set	290.0	342.20	403.80	431.17
402	Suspension Clamp Assembly Suitable Upto 70-95 Sqmm bare messenger (Including 1 No. Suspension Clamp with Bracket, 2 Mtr Stainless Steel Strap & 2 Nos. SS buckles)	Set	320.3	377.93	445.96	476.19
403	Suspension Clamp Assembly Suitable above 95 Sqmm bare messenger (Including 1 No. Suspension Clamp with Bracket, 2 Mtr Stainless Steel Strap & 2 Nos. SS buckles)	Set	350.7	413.80	488.29	521.39
404	Dead end clamp with eyehook	Set	456.0	538.08	634.93	677.98
405	Dead End Clamp Suitable Upto 35 Sqmm bare messenger (Including 1 No. Dead End Bracket + 1	Set	326.0	384.68	453.92	484.70



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
	No. Dead End + 2 Mtr SS Strap + 2 Nos. SS buckle) [Minimum breaking load-15 KN]					
406	Dead End Clamp Suitable 50-70 Sqmm bare messenger (Including 1 No. Dead End Bracket + 1 No. Dead End + 2 Mtr SS Strap + 2 Nos. SS buckle) [Minimum breaking load-15 KN]	Set	360.0	424.80	501.26	535.25
407	Dead End Clamp Suitable above 70 Sqmm bare messenger (Including 1 No. Dead End Bracket + 1 No. Dead End + 2 Mtr SS Strap + 2 Nos. SS buckle) [Minimum breaking load-15 KN]	Set	346.0	408.28	481.77	514.43
408	Service main anchor clamp for proper support of service cable	Each	73.5	86.72	102.34	109.27
409	Eye Hook	Each	95.0	112.10	132.28	141.25
410	Stainless Steel Strip of 20mmX1mmx1000mm with Buckle Clip	Each	49.1	57.89	68.31	72.94
	Fabricated Items					
411	Hot Dip Galvanized Fabricated Iron Material For 33 kV Line, LT Line & DSS	MT	73800.0	87084.00	102759.12	109725.84
412	Non-Galvanized Fabricated Iron Materials for 33 Kv Line, LT Line & DSS	MT	66909.1	78952.73	93164.22	99480.44
413	33 kv Pole Top Bracket 50x10 mm flat[GALVANIZED] (2.5 Kgs.)	Each	184.5	217.71	256.90	274.31
414	33 kv Pole Top Bracket 100x50x6 mm [GALVANIZED] (2.9 Kgs.)	Each	251.7	296.98	350.43	374.19
415	33 KV Pole top bracket [NON-GALVANIZED] (2.9 Kgs.)	Each	60.2	71.05	83.84	89.52
416	11kv Pole Top Bracket 75x40X6 mm [GALVANIZED] (2.1 Kgs.)	Each	168.0	198.24	233.92	249.78
417	11 KV Pole top bracket 50x8 mm (F- type)[NON GALVANIZED] (2.2 Kgs.)	Each	147.2	173.67	204.93	218.83
418	11 kV F clamp/Bracket (2.1 Kgs.)	Pair	155.0	182.88	215.79	230.42
419	11 kV Fish Plate (1.6 Kgs.)	Each	118.1	139.33	164.41	175.56



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
420	33 kV Fish Plate (for ST Pole 13 Mtr.) (3 Kgs.)	Each	221.4	261.25	308.28	329.18
421	33kv V Cross Arm for (100x50x6 mm)[GALVANIZED] (19.7 Kgs.)	Each	1453.9	1715.55	2024.35	2161.60
422	33 KV V cross arm (100x 50x 6 mm)[NON GALVANIZED] (19.7 Kgs.)	Each	1317.9	1555.16	1835.09	1959.50
423	33 kV DP Special type V cross Arm [Galvanised] (21 Kgs.)	Each	1549.8	1828.76	2157.94	2304.24
424	11kv V Cross Arm (100x50x6 mm), [GALVANIZED] (16 Kgs.)	Each	1180.8	1393.34	1644.15	1755.61
425	11kv V Cross Arm (75x40x6 mm), [GALVANIZED] (14.6 Kgs.)	Each	1077.5	1271.43	1500.28	1602.00
426	11 KV "V" cross arm (75 x 40 x6 mm)[NON GALVANIZED] (10.93 Kgs.)	Each	976.7	1152.55	1360.01	1452.22
427	MS Angle (65x65x6 mm) for guarding of 33 KV[GALVANIZED] (16 Kgs.)	Each	1180.8	1393.34	1644.15	1755.61
428	MS Angle (65x65x6 mm) for guarding of 11 KV [GALVANIZED] (13.6 Kgs.)	Each	1003.7	1184.34	1397.52	1492.27
429	MS Angle (65x65x6 mm) for guarding of 33 KV, 11 KV, L.T line[NON GALVANIZED] (13.6 Kgs.)	Each	909.8	1073.61	1266.86	1352.75
430	Top Channel Set (100x50x6 mm) 3200 mm Length [GALVANIZED] (66.2 Kgs.)	Each	4885.6	5764.96	6802.65	7263.85
431	Top Channel Set (100x50x6 mm) [NON GALVANIZED] (66.2 Kgs.)	Each	4431.5	5229.12	6170.36	6588.69
432	MS Channel for AB Switch (100x50x6 mm) [GALVANIZED] (28.16 Kgs.)	Each	2078.2	2452.29	2893.70	3089.88
433	MS Channel AB switch(100x50x6 mm) [NON GALVANIZED] (28.16 Kgs.)	Each	2078.2	2452.29	2893.70	3089.88
434	33kv D P Channel (100x50x6 mm) 3150 mm Long [GALVANIZED] (65.2 Kgs.)	Each	4811.8	5677.88	6699.89	7154.12
435	33kv D P Channel (100x50x6 mm) 2200 mm Long [GALVANIZED] (45.5 Kgs.)	Each	3357.9	3962.32	4675.54	4992.53



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
436	33kv D P Channel (100x50x6 mm) 2800mm Long [GALVANIZED] (53.44 Kgs.)	Each	3943.9	4653.77	5491.45	5863.75
437	33 KV D.P Channel (100x50x6 mm)2800mm [NON GALVANIZED] (53.44 Kgs.)	Each	1995.6	2354.76	2778.62	2967.00
438	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Each	3047.9	3596.57	4243.95	4531.68
439	11KV D.P Channel (75x40x6mm)[NON GALVANIZED] (41.3 Kgs.)	Each	2763.0	3260.30	3847.16	4107.98
440	Transformer base Channel (100x50x6 mm)[GALVANIZED] (52.63 Kgs.)	Each	3884.1	4583.23	5408.21	5774.87
441	Transformer base Channel (100x50x6 mm) [NON GALVANIZED] (52.63 Kgs.)	Each	3629.6	4282.92	5053.84	5396.47
442	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm)[GALVANIZED] (52.3 Kgs.)	Set	3859.7	4554.49	5374.30	5738.66
443	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm) [NON GALVANIZED] (52.3 Kgs.)	Set	3498.9	4128.67	4871.83	5202.12
444	Belting Angle-A (65x65x6 mm) [GALVANIZED] (31 Kgs.)	Each	2287.8	2699.60	3185.53	3401.50
445	Belting Angle-B (65x65x6 mm) [GALVANIZED] (28 Kgs.)	Each	2066.4	2438.35	2877.26	3072.32
446	Back clamp (50x6 mm) for V-XRM & Top Bracket for 13 Mtr. STP [GALVANIZED] (3.2 Kgs.)	Each	236.2	278.67	328.83	351.12
447	Back clamp (50x8 mm) for Guarding Angle for 13 Mtr. STP [GALVANIZED] (3.2 Kgs.)	Each	236.2	278.67	328.83	351.12
448	Back clamp (50x8 mm) for Guarding Angle for 9 Mtr. PSC Pole [GALVANIZED] (3 Kgs.)	Each	221.4	261.25	308.28	329.18
449	Back clamp (50x6 mm) for 60kg Rail Pole[GALVANIZED] (3.2 Kgs.)	Each	236.2	278.67	328.83	351.12
450	Back clamp (50x6 mm) for 60kg Rail Pole[NON GALVANIZED] (3.2 Kgs.)	Each	214.1	252.61	298.08	318.29



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
451	Back clamp (50x8 mm) for V-XRM & Top Bracket for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Each	221.4	261.25	308.28	329.18
452	Back clamp (50x6 mm) for V-ARM & Top Bracket 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Each	221.4	261.25	308.28	329.18
453	Back clamp (50x6 mm) for 9mtr 400kg PSC Pole[NON GALVANIZED] (3 Kgs.)	Each	210.9	248.86	293.66	313.57
454	Back Clamp (50x6 mm) for 8 mtr 200kg PSC pole[GALVANIZED] (2.8 Kgs.)	Each	206.6	243.84	287.73	307.23
455	Back Clamp (50x6 mm) for 8 mtr 200kg PSC pole[NON GALVANIZED] (2.8 Kgs.)	Each	187.3	221.04	260.82	278.51
456	Back clamp(50x6 mm) for Tublar Pole[GALVANIZED] (2 Kgs.)	Each	147.6	174.17	205.52	219.45
457	Back clamp(50x6 mm) for Tublar Pole[NON GALVANIZED] (2 Kgs.)	Each	133.8	157.88	186.30	198.93
458	Support Clamp for V Cross Arm for 60kg Rail Pole[GALVANIZED] (1.6 Kgs. each)	Pair	236.2	278.67	328.83	351.12
459	Support Clamp for V Cross Arm for 60kg Rail Pole[NON GALVANIZED] (1.6 Kgs. each)	Pair	214.1	252.61	298.08	318.29
460	Support Clamp for V Cross Arm for 9 mtr 400kg PSC pole[GALVANIZED] (1.2 Kgs. each)	Pair	177.1	209.00	246.62	263.34
461	Support Clamp for V Cross Arm for 9 mtr 400kg PSC pole[NON GALVANIZED] (1.2 Kgs. each)	Pair	160.6	189.46	223.56	238.72
462	Support Clamp for V Cross Arm for 8 mtr 200kg PSC pole[GALVANIZED] (1.08 Kgs. each)	Pair	159.4	188.10	221.96	237.01
463	Support Clamp for V Cross Arm for 8 mtr 200kg PSC pole[NON GALVANIZED] (1.08 Kgs. each)	Pair	144.5	170.51	201.21	214.85
464	Support Clamp for V Cross Arm for Tublar Pole[GALVANIZED] (1.4 Kgs. each)	Pair	206.6	243.84	287.73	307.23
465	Support Clamp for V Cross Arm for Tublar Pole[NON GALVANIZED] (1.4 Kgs. each)	Pair	187.3	221.04	260.82	278.51
466	Back Clamp-A for Belting Angle (50x8) (1.872 Kgs. each)	Pair	277.6	327.62	386.59	412.80



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467	Back Clamp-B for Belting Angle (50x8) (1.872 Kgs. each)	Pair	250.5	295.56	348.76	372.40
468	Back clamp for 33 kV DP Special type V cross Arm [Galvanised] (3 Kgs. each)	Pair	221.4	261.25	308.28	329.18
469	Back Clamp (50x6 mm)Jointing/ Packing piece for 60kg Rail Pole [GALVANIZED] (3.7 Kgs.)	Pair	273.1	322.21	380.21	405.99
470	Back Clamp (50x6 mm)Jointing/ Packing piece for 60kg Rail Pole[NON GALVANIZED] (3.7 Kgs.)	Pair	260.1	306.93	362.18	386.73
471	Clamp for Top Channel 50x6 mm flat for 60kg Rail Pole[GALVANIZED] (2.8 Kgs.)	Each	206.6	243.84	287.73	307.23
472	Clamp for Top Channel 50x6 mm flat for 60kg Rail Pole[NON GALVANIZED] (2.8 Kgs.)	Each	187.3	221.04	260.82	278.51
473	Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Each	221.4	261.25	308.28	329.18
474	Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[NON GALVANIZED] (3 Kgs.)	Each	200.7	236.83	279.45	298.40
475	Clamp for Top Channel 50x6 mm flat for 8 mtr 200kg PSC Pole[GALVANIZED] (2.8 Kgs.)	Each	206.6	243.84	287.73	307.23
476	Clamp for Top Channel 50x6 mm flat for 8 mtr 200kg PSC Pole[NON GALVANIZED] (2.8 Kgs.)	Each	187.3	221.04	260.82	278.51
477	Clamp for Top Channel 50x6 mm flat for Tublar Pole[GALVANIZED] (2 Kgs.)	Each	147.6	174.17	205.52	219.45
478	Clamp for Top Channel 50x6 mm flat for Tublar Pole[NON GALVANIZED] (2 Kgs.)	Each	133.8	157.88	186.30	198.93
479	Clamp for AB Switch Base Channel(50x6 mm) for 60kg Rail Pole[GALVANIZED] (2.4 Kgs.)	Each	177.1	209.00	246.62	263.34
480	Clamp for AB Switch Base Channel(50x6 mm) for 60kg Rail Pole[NON GALVANIZED] (2.4 Kgs.)	Each	160.6	189.46	223.56	238.72
481	Clamp for AB Switch Base Channel (50x6 mm) for 9 mtr 400kg PSC Pole[GALVANIZED]	Each	207.6	245.01	289.12	308.72
482	Clamp for AB Switch Base Channel (50x6 mm) for 9 mtr 400kg PSC Pole[NON GALVANIZED]	Each	187.3	221.04	260.82	278.51



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483	Clamp for AB Switch Base Channel (50x6 mm) for 8 mtr 200kg PSC Pole[GALVANIZED]	Each	192.8	227.51	268.47	286.67
484	Clamp for AB Switch Base Channel (50x6 mm) for 8 mtr 200kg PSC Pole[NON GALVANIZED]	Each	173.9	205.25	242.19	258.61
485	Clamp for AB Switch Base Channel (50x6 mm) for tublar Pole [GALVANIZED]	Each	155.7	183.76	216.84	231.54
486	Clamp for AB Switch Base Channel (50x6 mm) for tublar Pole [NON GALVANIZED]	Each	140.5	165.78	195.62	208.88
487	MS Channel (75x40x6 mm)for supporting H.G fuse & L.A [GALVANIZED] (19.3 Kgs.)	Each	1424.3	1680.72	1983.25	2117.71
488	MS Channel (75x40x6 mm)for supporting H.G fuse & L.A [NON GALVANIZED] (19.3 Kgs.)	Each	1291.2	1523.58	1797.83	1919.71
489	Clamp (50 x 6 mm) for Transformer base channel [GALVANIZED] (3.2 Kgs.)	Each	236.2	278.67	328.83	351.12
490	Clamp (50 x 6 mm) for Transformer base channel [NON GALVANIZED] (3.2 Kgs.)	Each	225.0	265.45	313.23	334.47
491	Clamp (50 x 6 mm) for Transformer belting [GALVANIZED] (1.872 Kgs.)	Each	138.2	163.02	192.37	205.41
492	Clamp (50 x 6 mm) for Transformer belting [NON GALVANIZED] (1.872 Kgs.)	Each	125.2	147.78	174.38	186.20
493	Clamp (50 x 6 mm) for LT bus & H.G fuse set [GALVANIZED] (1.872 Kgs.)	Each	138.2	163.02	192.37	205.41
494	Clamp (50 x 6 mm) for LT bus & H.G fuse set [NON GALVANIZED] (1.872 Kgs.)	Each	125.2	147.78	174.38	186.20
495	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Pair	332.1	391.88	462.42	493.77
496	D.P Channel support clamp (50x6 mm)) for 60kg Rail Pole [NON GALVANIZED] (2.25 Kgs. each)	Pair	301.1	355.24	419.18	447.60
497	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.5 Kgs. each)	Pair	221.4	261.25	308.28	329.18



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498	D.P Channel support clamp (50x6 mm)for 9 mtr 400kg PSC Pole[NON GALVANIZED] (1.5 Kgs. each)	Pair	200.7	236.83	279.45	298.40
499	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 8 mtr 200kg PSC Pole[GALVANIZED] (1.1 Kgs. each)	Pair	162.4	191.58	226.07	241.40
500	D.P Channel support clamp (50x6 mm)for 8 mtr 200kg PSC Pole [NONGALVANIZED] (1.1 Kgs. each)	Pair	147.2	173.67	204.93	218.83
501	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for Tublar Pole[GALVANIZED] (4.5 Kgs. each)	Pair	664.2	783.76	924.83	987.53
502	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for Tublar Pole [NON GALVANIZED] (4.5 Kgs. each)	Pair	301.1	355.24	419.18	447.60
503	D P Channel Clamp (40x6 mm) flat for 60 kg Rail Pole[GALVANIZED] (1.92 Kgs.)	Each	141.7	167.20	197.30	210.67
504	D P Channel Clamp (40x6 mm) flat for 60 kg Rail Pole[NON GALVANIZED] (1.92 Kgs.)	Each	128.4	151.57	178.85	190.98
505	D P Channel Clamp (40x6 mm) flat 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Each	141.7	167.20	197.30	210.67
506	D P Channel Clamp (40x6 mm) flat 9 mtr 400kg PSC Pole[NON GALVANIZED] (1.92 Kgs.)	Each	128.4	151.57	178.85	190.98
507	D P Channel Clamp (40x6 mm) flat 8 mtr 200kg PSC Pole[GALVANIZED] (1.08 Kgs.)	Each	79.7	94.05	110.98	118.50
508	D P Channel Clamp (40x6 mm) flat 8 mtr 200kg PSC Pole[NON GALVANIZED] (1.08 Kgs.)	Each	72.3	85.26	100.60	107.42
509	D P Channel Clamp (40x6 mm) flat for Tublar Pole[GALVANIZED] (1.8 Kgs.)	Each	132.8	156.75	184.97	197.51
510	D P Channel Clamp (40x6 mm) flat for Tublar Pole[NON GALVANIZED] (1.8 Kgs.)	Each	120.4	142.10	167.67	179.04
511	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	Each	4745.3	5599.50	6607.41	7055.37



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
512	33 KV Cross bracing for DP Channel[NON GALVANIZED] (64.3 Kgs.)	Each	4301.7	5075.97	5989.65	6395.72
513	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	Each	3815.5	4502.24	5312.65	5672.83
514	11 KV Cross bracing for D P Structure[NON GALVANIZED] (51.7 Kgs.)	Each	3458.7	4081.30	4815.94	5142.44
515	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	276.3	326.04	384.73	410.81
516	Clamp for cross bracing Set of 1 pair for 60kg Rail Pole[NON GALVANIZED] (1.872 Kgs. each)	Set	250.5	295.56	348.76	372.40
517	Clamp for Cross Bracing Set of 1 pair for 9 mtr 400kg PSC Pole[GALVANIZED] (1.3 Kgs.)	Set	191.9	226.42	267.17	285.29
518	Clamp for Cross Bracing Set of 1 pair for 9 mtr 400kg PSC Pole[NON GALVANIZED] (1.3 Kgs.)	Set	173.9	205.25	242.19	258.61
519	Clamp for Cross bracing Set of 1 Pair for 8 mtr 200kg PSC pole[GALVANIZED] (1.2 Kgs.)	Set	178.0	210.01	247.81	264.62
520	Clamp for Cross bracing Set of 1 Pair for 8 mtr 200kg PSC pole NON [GALVANIZED] (1.2 Kgs.)	Set	160.6	189.46	223.56	238.72
521	Clamp for Cross Bracing Set of 1 pair for Tublar Pole[GALVANIZED] (1.75 Kgs.)	Set	258.3	304.79	359.66	384.04
522	Clamp for Cross Bracing Set of 1 pair for Tublar Pole[NON GALVANIZED] (1.75 Kgs.)	Set	234.2	276.30	326.03	348.13
523	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	370.8	437.53	516.28	551.28
524	Support clamp for Cross Bracing for 60kg Rail Pole[NON GALVANIZED] (2.5 Kgs. each)	Pair	334.5	394.71	465.76	497.33
525	Support clamp for Cross Bracing for 9 mtr 400kg PSC Pole[GALVANIZED] (2.33 Kgs. each)	Pair	345.6	407.77	481.17	513.80
526	Support clamp for Cross Bracing for 9 mtr 400kg PSC Pole[NON GALVANIZED] (2.33 Kgs. Each)	Pair	311.8	367.87	434.09	463.52
527	Support clamp for Cross Bracing for 8 mtr 200kg PSC Pole[GALVANIZED] (1.68 Kgs. each)	Pair	249.2	294.02	346.94	370.46



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528	Support clamp for Cross Bracing for 8 mtr 200kg PSC Pole[NON GALVANIZED] (1.68 Kgs. each)	Pair	224.8	265.25	312.99	334.21
529	Support clamp for Cross Bracing for Tublar Pole[GALVANIZED] (2.1 Kgs. each)	Pair	311.5	367.52	433.68	463.08
530	Support clamp for Cross Bracing for Tublar Pole[NON GALVANIZED] (2.1 Kgs. each)	Pair	281.0	331.56	391.24	417.76
531	Angle/side Stay Clamp (50x8 mm) for 13 Mtr. STP Pole [GALVANIZED] (2.1 Kgs.)	Pair	310.0	365.75	431.59	460.85
532	Angle/side Stay Clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (1.92 Kgs.)	Each	141.7	167.20	197.30	210.67
533	Angle /Side Stay clamp (50x6 mm) for 60kg Rail Pole [NON GALVANIZED] (1.92 Kgs.)	Each	128.4	151.57	178.85	190.98
534	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Each	141.7	167.20	197.30	210.67
535	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[NON GALVANIZED] (1.92 Kgs.)	Each	128.4	151.57	178.85	190.98
536	Angle/side Stay Clamp (50x6 mm) for 8 mtr 200kg PSC Pole[GALVANIZED] (1.08 Kgs.)	Each	79.7	94.05	110.98	118.50
537	Angle/side Stay Clamp (50x6 mm) for 8 mtr 200kg PSC Pole[NON GALVANIZED] (1.08 Kgs.)	Each	72.3	85.26	100.60	107.42
538	Angle/side Stay Clamp (50x6 mm) for Tublar Pole[GALVANIZED] (1.92 Kgs.)	Each	141.7	167.20	197.30	210.67
539	Angle/side stay clamp (50 x 6 mm)for Tublar Pole[NON GALVANIZED] (1.92 Kgs.)	Each	128.4	151.57	178.85	190.98
540	clamp for G.I. Pipe (2.02 Kgs.)	Each	149.1	175.91	207.57	221.65
541	GI Flat (75x6 mm)[GALVANIZED] (1.1 Kgs.)	Kg	81.2	95.79	113.04	120.70
542	MS Flat (75x6 mm)[NON GALVANIZED] (1.1 Kgs.)	Kg	73.6	86.84	102.47	109.41
543	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Set	132.8	156.75	184.97	197.51
544	Earth clamp for earthwire (50 x 6 mm)[NON GALVANIZED] (1.8 Kgs.)	Set	120.4	142.10	167.67	179.04



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
545	MS Angle for LT Distribution bus (50x50x6 mm) [GALVANIZED]	Each	499.0	588.82	694.81	741.91
546	MS Angle for L T distribution bus (50x50x6 mm)[NON GALVANIZED]	Each	501.8	592.07	698.64	746.00
547	LT Bracket Vertical formation	Each	482.0	568.78	671.16	716.67
548	LT Bracket for tapping point	Each	519.1	612.54	722.79	771.80
549	LT Angle Bracket (50x50x6 mm)[GALVANIZED]	Each	407.9	481.28	567.91	606.41
550	LT Angle bracket (50x50x6 mm)[NON GALVANIZED]	Each	368.0	434.18	512.33	547.07
551	Pole clamp for I hook B type (0.8 Kgs. each)	Pair	118.7	140.01	165.21	176.41
552	LT Back clamp (50 x 6 mm) for LT angle[GALVANIZED] (0.55 Kgs. each)	Pair	81.6	96.26	113.58	121.28
553	LT Back clamp (50 x 6 mm) for LT angle[NON GALVANIZED] (0.55 Kgs. each)	Pair	73.6	86.84	102.47	109.41
554	"U" clamp (40 x 6 mm)[GALVANIZED] (1.46 Kgs.)	Pair	54.1	63.88	75.38	80.49
555	"U" clamp (40 x 6 mm)[NON GALVANIZED] (1.46 Kgs.)	Pair	48.8	57.63	68.00	72.61
556	50 x 6 mm Galvanized GI flat (risers)	Kg	74.1	87.49	103.24	110.24
557	25 x 3 mm Galvanized GI flat (risers)	Kg	74.1	87.49	103.24	110.24
	Fuse					
558	11 KV D.O. Fuse unit (polymer type)	Set	1621.3	1913.14	2257.50	2410.56
559	33 KV D.O. Fuse unit (polymer type)	Set	2320.3	2737.99	3230.83	3449.87
560	33 KV H.G. Fuse unit (polymer type)	Set	5417.8	6393.00	7543.74	8055.19
561	11 KV H.G. Fuse unit (polymer type)	Set	2688.1	3172.01	3742.97	3996.73
	Electrical Conduit (Pipes)					
561	GI Pipe 4" Medium duty (B Class)	Mtr	835.0	985.26	1162.61	1241.43
562	GI Pipe 6" Medium duty (B Class)	Mtr	1314.6	1551.24	1830.47	1954.57
563	GI Pipe 8" Medium duty (B Class)	Mtr	1721.4	2031.21	2396.82	2559.32
564	Hume Pipe - RCC Pipe 100 mm (NP2 Class)	Mtr	286.2	337.71	398.50	425.52
565	Hume Pipe - RCC Pipe 150 mm (NP2 Class)	Mtr	438.2	517.07	610.14	651.51
566	Hume Pipe - RCC Pipe 200 mm (NP3 Class)	Mtr	332.9	392.78	463.48	494.90



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567	HDPE Pipe - 110 mm /4" PE 63 grade	Mtr	323.4	381.55	450.23	480.76
568	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	624.6	737.02	869.68	928.64
569	HDPE Pipe - 200 mm /8" PE 63 grade	Mtr	918.8	1084.14	1279.28	1366.01
570	HDPE Pipe - 160 mm /6" PE 80 grade	Mtr	427.0	503.91	594.62	634.93
	Heat Shrinkable Kit					
571	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 400 mm2	Set	15254.2	18000.00	21240.00	22680.00
572	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 300 mm2	Set	12155.0	14342.90	16924.62	18072.05
573	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 240mm2	Set	12021.4	14185.26	16738.61	17873.43
574	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 185 mm2	Set	12021.4	14185.26	16738.61	17873.43
575	33 KV 3-core heat shrinkable straight through Cable jointing kit for 150-95 mm2	Set	12021.4	14185.26	16738.61	17873.43
576	33 KV 3-core heat shrinkable straight through Cable jointing kit for 70-35 mm2	Set	7288.1	8600.00	10147.99	10835.99
577	33 kV termination kit for 1Core x 400mm2	Set	3532.0	4167.76	4917.96	5251.38
578	33 KV 3-core heat shrinkable Out door type Cable termination kit for 400mm2	Set	6369.5	7516.00	8868.88	9470.16
579	33 KV 3-core heat shrinkable Out door type Cable termination kit for 300 mm2	Set	4493.2	5302.00	6256.36	6680.52
580	33 KV 3-core heat shrinkable Out door type Cable termination kit for 240 mm2	Set	4448.5	5249.23	6194.09	6614.03
581	33 KV 3-core heat shrinkable Out door type Cable termination kit for 185 mm2	Set	4448.5	5249.23	6194.09	6614.03
582	33 KV 3-core heat shrinkable Out door type Cable termination kit for 120 mm2	Set	4448.5	5249.23	6194.09	6614.03
583	33 KV 3-core heat shrinkable Out door Cable termination kit for 95-70 mm2	Set	4448.5	5249.23	6194.09	6614.03
584	33 KV 3-core heat shrinkable Indoor Cable termination kit for 400mm2	Set	6369.5	7516.00	8868.88	9470.16



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
585	33 KV 3-core heat shrinkable Indoor Cable termination kit for 300 mm2	Set	4493.2	5301.98	6256.33	6680.49
586	33 KV 3-core heat shrinkable Indoor Cable termination kit for 240 mm2	Set	4448.5	5249.23	6194.09	6614.03
587	33 KV 3-core heat shrinkable Indoor Cable termination kit for 185 mm2	Set	4448.5	5249.23	6194.09	6614.03
588	33 KV 3-core heat shrinkable Indoor Cable termination kit for 120 mm2	Set	4448.5	5249.23	6194.09	6614.03
589	33 KV 3-core heat shrinkable Indoor Cable termination kit for 95-70 mm2	Set	4448.5	5249.23	6194.09	6614.03
590	33 KV 3-core heat shrinkable Indoor Cable termination kit for 50-25 mm2	Set	3902.5	4604.95	5433.84	5802.24
591	In door Heat Shrink type Cable Termination kit 11kV HT XLPECable-1Cx 630 sqmm (armoured)	Set	2256.0	2662.08	3141.25	3354.22
592	Out door Heat Shrink type Cable termination kit 11kV HT XLPECable-1Cx 630 sqmm (armoured)	Set	2256.0	2662.08	3141.25	3354.22
593	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 400 mm2	Set	4100.0	4838.00	5708.84	6095.88
594	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 300 mm2	Set	4069.8	4802.31	5666.72	6050.90
595	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 240 mm2	Set	3996.6	4716.04	5564.92	5942.20
596	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 185 mm2	Set	2319.5	2737.00	3229.66	3448.62
597	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 95-150 mm2	Set	2319.5	2737.00	3229.66	3448.62
598	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 70-35 mm2	Set	903.2	1065.72	1257.55	1342.80
599	11 KV 3-core heat shrinkable Indoor Cable Jointing/termination kit 400 mm2	Set	4500.0	5310.00	6265.80	6690.60
600	11 KV 3-core heat shrinkable Indoor Cable Jointing/termination kit 300 mm2	Set	3900.0	4602.00	5430.36	5798.52



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
601	11 KV 3-core heat shrinkable Indoor Cable Jointing/termination kit 240 mm ²	Set	1652.1	1949.47	2300.37	2456.33
602	11 KV 3-core heat shrinkable Indoor Cable Jointing/termination kit 120-185 mm ²	Set	1652.1	1949.47	2300.37	2456.33
603	11 KV 3-core heat shrinkable Indoor Cable Jointing/termination kit 95-50 mm ²	Set	1652.1	1949.47	2300.37	2456.33
604	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 400 mm ²	Set	4500.0	5310.00	6265.80	6690.60
605	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 300 mm ²	Set	3900.0	4602.00	5430.36	5798.52
606	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 240 mm ²	Set	1656.5	1954.71	2306.56	2462.94
607	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 120-185 mm ²	Set	1656.5	1954.71	2306.56	2462.94
608	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 95-50 mm ²	Set	1656.5	1954.71	2306.56	2462.94
	UG Cables related material					
609	Pillar Box Cum Consumer service distribution box-one time lock system (1 no. 3 ph 4 wire incoming a	Each	70855.7	83609.78	98659.54	105348.32
610	Cable Marker (Metal)	Each	115.7	136.55	161.13	172.05
	AB Switch Contact					
611	Male female contact of 33 KV AB Switch 600-630 Amp	Each	1373.0	1620.20	1911.83	2041.45
612	Male female contact of 33 KV AB Switch 400 Amp	Each	1141.5	1346.95	1589.41	1697.16
613	Male female contact of 33 KV AB Switch 200 Amp	Each	1065.4	1257.15	1483.44	1584.01
614	Male female contact of 11 KV AB Switch 800 Amp	Each	1032.8	1218.67	1438.03	1535.53
615	Male female contact of 11 KV AB Switch 600 Amp	Each	869.7	1026.25	1210.97	1293.07
616	Male female contact of 11 KV AB Switch 400 Amp	Each	765.3	903.11	1065.66	1137.91
617	Male female contact of 11 KV AB Switch 200 Amp	Each	761.0	897.98	1059.61	1131.45
	Testing Equipment					



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
619	Accucheck meter High accuracy (0.2% in director mode / 0.5% in clamp on mode) for kWh, kVAh and kVAh Maximum current up to 6A in direct mode and up to 500A in clamp on mode. LT+ : To test LT whole current single phase meters up to 60A	Set	64414.3	76008.89	89690.49	95771.20
620	Accucheck meter High accuracy (0.2% in director mode / 0.5% in clamp on mode) for kWh, kVAh and kVAh Maximum current up to 6A in direct mode and up to 500A in clamp on mode. LT+ : To test LT 3 phase & CT operated energy meters	Set	107357.2	126681.48	149484.15	159618.67
621	Accucheck meter High accuracy (0.2% in director mode / 0.5% in clamp on mode) for kWh for HT+ : To test meters suitable for HT, 3 phase, 3 wire and 4 wire systems	Set	118092.9	139349.63	164432.57	175580.54
622	EH-II Chain Electric Hoist (Capacity - 1 Ton, Standard Lift - 3 Mtr) with 1.5 HP motor	Set	81404.7	96057.51	113347.86	121032.46
623	Electronic weighing Machine with 1.2x1.2 mtr. Platform, suitable for weighing limit upto 2 tons	Set	69080.4	81514.85	96187.52	102708.71
624	Electronic weighing Machine with 2x2 mtr. Platform, suitable for weighing limit upto 4 tons	Set	128828.6	152017.78	179380.99	191542.41
625	Earth tester 200 Amp. 2000 Ohm (Digital)	Each	3658.7	4317.26	5094.36	5439.74
626	500 V Megger	Each	3728.5	4399.68	5191.63	5543.60
627	2.5 / 5 KV Megger (Manual)	Each	5619.5	6631.00	7824.58	8355.06
628	Digital Clamp meter (Meco 3150)	Each	2633.5	3107.49	3666.84	3915.44
629	Digital Tong tester (1000 Amp., 500 V) With associated accessories.	Set	3240.2	3823.42	4511.64	4817.51
630	Digital Multi meter (10 Amp along with mA range)	Each	2709.5	3197.15	3772.64	4028.41
631	2.5 kV motorized with range up to 20000 mega ohms	Each	18787.5	22169.26	26159.72	27933.26



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
632	2.5 kV motorised cum manual with range up to 20000 mega ohms	Each	22008.2	25969.70	30644.24	32721.82
633	5 kV motorised with range up to 100000 mega ohms	Each	28986.4	34204.00	40360.72	43097.04
634	5 kV motorised cum manual with range up to 100000 mega ohms	Each	32207.2	38004.44	44845.24	47885.60
	Tool Kit					
635	Adhesive Insulation Tape	Each	267.0	315.11	371.83	397.04
636	High Temperature Tape	Each	749.3	884.20	1043.35	1114.09
637	Discharge rod for 33 KV / 11KV	Set	465.7	549.53	648.44	692.41
638	Screw Driver set-840	Set	740.4	873.62	1030.88	1100.77
639	Screw Driver set-935	Set	46.8	55.28	65.23	69.65
640	Neon Tester 813	Each	54.7	64.51	76.12	81.28
641	Hammer 200 gm	Each	170.6	201.30	237.54	253.64
642	Hack Saw frame	Each	138.1	162.90	192.22	205.25
643	Hack saw blades	Each	36.0	42.53	50.18	53.58
644	Adjustable spanner	Each	515.4	608.13	717.60	766.25
645	wire Stripper	Each	52.9	62.37	73.60	78.59
646	Combinational Plier	Each	273.8	323.12	381.28	407.13
647	Side Cutting Plier	Each	193.4	228.24	269.32	287.58
648	Measuring tape	Each	384.4	453.64	535.29	571.58
649	Hand Drill Machine	Each	3231.8	3813.56	4500.00	4805.08
650	Punch	Each	50.5	59.54	70.26	75.02
651	Knife	Each	97.3	114.82	135.49	144.68
652	Spanner Set	Each	945.4	1115.56	1316.36	1405.60
653	Tool Bag	Each	865.0	1020.70	1204.43	1286.09
654	Nose Plier	Each	224.7	265.09	312.81	334.01
655	Drill Bit 3/10 Concrete (JK)	Each	102.1	120.50	142.19	151.83
656	Chain Pulley 5Ton with 15 meter Chain	Each	8976.7	10592.50	12499.15	13346.55
657	Max pulley 10 Ton	Each	22205.5	26202.49	30918.94	33015.14
	Civil Works					
658	OPC Cement	Bag	326.3	385.00	454.30	485.10



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659	Earth work in excavation in foundation trenches (along with disposal of excavated earth upto 50M, removing tree roots and shrubs) (For Normail soil)	mtrs3	151.8	179.15	211.39	225.73
660	Earth work in excavation in foundation trenches (along with disposal of excavated earth upto 50M, removing tree roots and shrubs) (For Rocky soil)	mtrs3	167.3	197.45	232.99	248.79
661	Filling in foundation trenches and Plenth in layers not exceeding 150 mm thick well watered, rammed fully compacted and fine dressed with earth obtained from excavation of foundation trenches within a lead of 50 M and lift of 1.5 M all complete as per building specification and direction of E/I	mtrs3	55.3	65.23	76.97	82.19
662	Providing coarse clean sand in filling in foundation trenches or in plinth including ramming and watering in layers not exceeding 150 mm thick with all leads and lifts including cost of all material labor, royalty and taxes all complete as per building specification and direction of E/I"	mtrs3	589.5	695.62	820.83	876.48
663	Brick Flat Soling	mtrs3	356.5	420.69	496.42	530.07
664	Providing P.C.C.M -150 in nominal mix(1:2:4) in foundation with quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening shuttering mixing cement concrete in mixer and placing in position vibrating,striking,curing,taxes and royalty all complete as perbuilding specification and direction of engineer in charge	mtrs3	4598.2	5425.91	6402.58	6836.65
665	Providing P.C.C.M -100 in nominal mix(1:3:6) in foundation with quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening shuttering mixing cement concrete in mixer and placing in position	mtrs3	4125.4	4867.98	5744.22	6133.66



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
	vibrating,striking,curing,taxes and royalty all complete as perbuilding specification and direction of engineer in charge					
666	Providing P.C.C.M -75 in nominal mix(1:4:8) in foundation with quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening shuttering mixing cement concrete in mixer and placing in position vibrating,striking,curing,taxes and royalty all complete as perbuilding specification and direction of engineer in charge	mtrs3	3751.6	4426.94	5223.78	5577.94
667	Providing R.C.C.M-150 with nominal mix(1:2:4) in foundation and plinth and with quality stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, shuttering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement, taxed and royalty all complete, as per building specification and direction of E/I.)	mtrs3	6082.5	7177.29	8469.20	9043.39
	SCADA Related Materials					
669	SCADA Server	Each	1324706.6	1563153.75	1844521.43	1969573.73
670	FEP Server with interface switches for RTUs and FRTUs	Each	1324706.6	1563153.75	1844521.43	1969573.73
671	ISR Server {Data Server}	Each	1336981.4	1577638.11	1861612.97	1987824.02
672	NMS Server {DMS Server}	Each	1324706.6	1563153.75	1844521.43	1969573.73
673	DTS Server (only at Ranchi)	Each	1324706.6	1563153.75	1844521.43	1969573.73
674	Developmental Server	Each	1324706.6	1563153.75	1844521.43	1969573.73
675	Communication Server	Each	1324706.6	1563153.75	1844521.43	1969573.73
676	Web/Directory Server	Each	1324706.6	1563153.75	1844521.43	1969573.73
677	Workstation with dual TFT Monitors	Each	351915.9	415260.73	490007.67	523228.52



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678	LED based Video Projection system with 2X3 Module configuration with each module at least 67" diagonal with common projector	Set	10028918.4	11834123.70	13964265.96	14910995.86
679	33 kV OR 11 kV control and relay panel, SCADA compatable for feeder protection (1F)	Each	163328.7	192727.91	227418.93	242837.16
680	33 kV or 11 kV control and relay panel, SCADA compatable for transformer protection (IT) with o/c +e/f + Diff relay	Each	152913.3	180437.73	212916.52	227351.54
681	33 kV OR 11 kV control and relay panel, SCADA compatable for feeder protection (2F)	Each	319952.9	377544.40	445502.39	475705.94
682	Buchholz Relay contact	Each	8806.5	10391.68	12262.18	13093.51
683	Minimum Oil Gauge	Each	3220.7	3800.44	4484.52	4788.56
684	SCADA compatible winding temp. indicator	Each	11275.0	13304.50	15699.31	16763.67
685	SCADA compatible oil temp. indicator	Each	9920.2	11705.78	13812.82	14749.29
686	RTU Base equipment comprising panels, racks, sub racks, powe supply modules, CPU, Analog and Digital input Control output Modules, interfacing MFT using RS - 485 MODBUS protocol and 2 ethernet ports + 4 serial ports (RS232/485), required A-D converters and all other accessories required	Each	628218.9	741298.27	874731.96	934035.82
687	DC Voltage transducer	Each	1436.0	1694.48	1999.49	2135.04
688	RTU Base and foundation (base should be capable of withstanding 200 kg. load)	Each	5144.6	6070.64	7163.35	7649.01
689	Multi function transducers (5 amps, 110 V with RS 485 modbus communication protocol)	Each	10300.4	12154.44	14342.24	15314.59
690	Type A FRTU for 5- way RMUs	Each	47178.8	55671.04	65691.82	70145.50
691	Type A FRTU for 4- way RMUs	Each	43698.2	51563.93	60845.44	64970.56
692	Type B FRTU for 3- way RMUs	Each	43698.2	51563.93	60845.44	64970.56
693	Type C FRTU for 2- way RMUs	Each	124880.0	147358.40	173882.91	185671.58
694	Routers 230 V AC, 2 GE Ports, 48xFE, WAN Speed 200 MBPS	Each	75685.1	89308.40	105383.91	112528.58
695	Ethernet Switch	Each	3087.4	3643.17	4298.94	4590.40



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696	2 MBPS VPN link for connectivity for s/s with SCADA control center	Each	75288.1	88840.01	104831.21	111938.41
697	LDMS	Each	135080.0	159394.42	188085.42	200836.97
698	2 KVA ups (for LDMS) with 160 AH battery, 72 V battery set	Each	134719.9	158969.45	187583.95	200301.51
699	GSM/GPRS Modem along with Accessories	Each	4182.9	4935.77	5824.21	6219.07
700	B/W Laser printer for LDMS	Each	18758.8	22135.34	26119.70	27890.52
701	48 V DC Power supply system based on SMPS for RTU & Comm. Equipment with 80 AH Battery	Each	103262.4	121849.61	143782.54	153530.51
702	Cat 6 cable	Mtr	51.3	60.52	71.42	76.26
703	LDMS Software	Each	15434.9	18213.24	21491.62	22948.68
704	Numerical relay SCADA Compatible for power transformer protection	Each	41675.4	49176.92	58028.76	61962.92
705	Numerical relay SCADA Compatible for 33kV and 11 kV feeder protection	Each	41675.4	49176.92	58028.76	61962.92
706	MCU module card	Each	64210.6	75768.53	89406.87	95468.35
707	Power Module card	Each	8041.4	9488.83	11196.82	11955.92
708	DI Card	Each	16083.9	18978.97	22395.19	23913.51
709	DO Card	Each	16083.9	18978.97	22395.19	23913.51
710	AI Card	Each	16083.9	18978.97	22395.19	23913.51
711	COM 6 Card	Each	16083.9	18978.97	22395.19	23913.51
712	RMU - 3 way (1 incomer, 1 outgoing and 1 breaker) SCADA Compatible	Each	502833.3	593343.35	700145.15	747612.62
713	RMU - 5 way (1 incomer, 1 outgoing and 3 breakers) SCADA Compatible	Each	888728.7	1048699.87	1237465.85	1321361.84
714	11 kV Sectionalizer	Each	348642.5	411398.12	485449.78	518361.63
715	11 kV Auto reclosure	Each	742025.8	875590.46	1033196.74	1103243.97
716	GPRS/CDMA/EDGE/3G Modem	Each	4641.0	5476.43	6462.19	6900.31
717	Heavy Duty Relay for CB Trip / Close (48 V DC, 2 no, 1 NC)	Each	493.8	582.73	687.62	734.24



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718	11 kV Stand alone fault passage indicator complete with GPRS enabled modem(SCADA Compatible)	Each	93198.4	109974.10	129769.44	138567.37
719	33 kV Stand alone fault passage indicator complete with GPRS enabled modem(SCADA Compatible)	Each	123831.2	146120.76	172422.50	184112.16
	Storage & Backup Devices					
720	External RAID Mass storage device (for 2 months online backup)	Each	1022132.5	1206116.29	1423217.23	1519706.53
721	External DAT drive	Each	506616.0	597806.85	705412.08	753236.63
	Switches					
722	Layer II Switch (SCADA/DMS LAN) (48 Ports)	Each	272527.8	321582.79	379467.69	447771.88
723	Layer Switch (Planning & Development system LAN) (24 Ports)	Each	244277.3	288247.16	340131.65	363191.42
	Other Active Devices					
724	GPS Time synchronization system	Set	233525.2	275559.76	325160.52	347205.30
725	Time, day & date digital displays	Set	164529.8	194145.14	229091.26	244622.88
	Printers					
726	A3 Color Inkjet Printer	Set	133787.4	157869.16	186285.61	198915.14
727	B/W Laser printer	Set	154849.1	182721.92	215611.86	230229.61
728	Color Laser printer	Set	709923.1	837709.30	988496.97	1055513.71
	Security system (DMZ)					
729	Web Server with load balancing	Each	1324706.6	1563153.75	1844521.43	1969573.73
730	Firewall & Network IDS/IPS in pair (2 Nos.)	Each	294290.0	347262.23	409769.43	437550.41
	Cabling System					
731	Cable, Jacks, Hubs, etc.	Lot	206781.6	244002.30	287922.72	307442.90
732	ACDB for Control Centre	Set	206781.6	244002.30	287922.72	307442.90
733	KVM Switch	Each	186860.7	220495.58	260184.79	277824.44
734	Panels	Each	78436.2	92554.68	109214.52	116618.90
	Software for Control Centre					
735	SCADA software	Lot	2877369.0	3395295.42	4006448.60	4278072.23
736	ISR Software	Lot	2158026.8	2546471.57	3004836.45	3208554.17
737	DMS software	Lot	4316053.5	5092943.13	6009672.89	6417108.34



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738	DTS software	Lot	719342.3	848823.86	1001612.15	1069518.06
739	Developmental software	Lot	719342.3	848823.86	1001612.15	1069518.06
740	Network Management Software	Lot	719342.3	848823.86	1001612.15	1069518.06
741	GIS Adaptor/Engine for importing data from GIS system under IT system	Lot	719342.3	848823.86	1001612.15	1069518.06
RTU:RTU-Type B 33/11 kV Sub Stations						
742	RTU base equipment comprising panels, racks, sub-racks, Power Supply modules, CPU, Analog and Digital input Control output Modules, interfacing equipments for interfacing MFTs using RS-485 MODBUS Protocol and 2 Eathernet Ports, required A-D Converters & all other required items/accessories including complete wiring for all modules for locations mentioned for Type B RTUs	Set	673917.4	795222.47	938362.52	1001980.32
743	Multifunction Transducers (MFTs)	Each	4423.0	5219.09	6158.53	6576.06
744	Contact Multiplying Relays (CMRs)	Each	252.5	297.93	351.55	375.39
745	Heavy Duty Relays (HDRs) for CB Trip/Close and rise and lower of OLTC	Each	316.2	373.08	440.23	470.08
746	Weather transducer - Wind speed	Each	25273.1	29822.24	35190.24	37576.02
747	Weather transducer - Rainfall	Each	25273.1	29822.24	35190.24	37576.02
748	Weather transducer - Humidity	Each	25273.1	29822.24	35190.24	37576.02
749	Weather transducer -Temperature	Each	25273.1	29822.24	35190.24	37576.02
750	Weather transducer -Wind Direction	Each	25273.1	29822.24	35190.24	37576.02
751	Router for RTUs at DC power Supply	Each	179843.5	212215.36	250414.12	267391.35
752	OLTC Transducers	Each	5054.2	5963.91	7037.41	7514.53
753	DC Current Transducer	Each	2148.4	2535.06	2991.38	3194.18
754	DC Voltage Transducer	Each	2148.4	2535.06	2991.38	3194.18
755	ACDB with sufficient MCCBs	Each	6318.8	7456.23	8798.35	9394.85
TEST EQUIPMENTS for RTU						
756	RTU Database Configuration & Maintenance Software tool	Each	43596.1	51443.36	60703.16	64818.63



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
757	Master Station cum RTU Simulator & Protocol analyzer software tool	Each	72661.4	85740.47	101173.75	108032.99
758	Laptop PC for above software tools along with interfacing hardware including Hub	Each	126366.5	149112.52	175952.77	187881.77
	FRTU/FRTUs					
759	Type-A FRTU for 5-Way RMUs	Each	117737.8	138930.66	163938.18	175052.63
760	Type-A1 FRTU for 4-Way RMUs	Each	102659.5	121138.24	142943.12	152634.18
761	Type-B FRTU for 3-Way RMUs	Each	102659.5	121138.24	142943.12	152634.18
762	Type-C FRTU for Sectionalizers	Each	80003.4	94403.97	111396.69	118949.01
763	MFTs	Each	4423.0	5219.09	6158.53	6576.06
764	Contact Multiplying Relays (CMRs)	Each	252.5	297.93	351.55	375.39
765	Heavy duty relays for CB trip/Close	Each	316.2	373.08	440.23	470.08
	Test Equipments for FRTU					
766	FRTU Database Configuration & Maintenance Software tool	Each	43596.1	51443.36	60703.16	64818.63
767	Master Station cum FRTU Simulator & Protocol analyzer software tool	Each	72661.4	85740.47	101173.75	108032.99
768	Laptop PC for above software tools along with interfacing hardware including Hub	Each	126366.5	149112.52	175952.77	187881.77
	GPRS/CDMA/EDGE/3GModems					
769	GPRS	Each	4423.0	5219.09	6158.53	6576.06
	Auxiliary Power Supply System(APS)					
770	20 kVA UPS (1+1) with VRLA Batteries to give 4 hrs back up	Set	4549200.0	5368056.00	6334306.08	6763750.56
771	DC Power Supply (DCPS) system based on SMPS (for 20 A load plus charging current@10% capacity) with VRLA Batteries to give 4 hrs back up.	Set	125103.0	147621.54	174193.42	186003.14
772	2 kVA UPS for RTU Locations/LDMS	Set	107737.6	127130.33	150013.79	160184.21
773	48 V DCPS at RTU Locations along with VRLA Batteries	Set	125103.0	147621.54	174193.42	186003.14



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774	24/48 V DCPS for FRTU Locations along with VRLA Batteries	Set	22367.3	26393.39	31144.20	33255.67
	Safety Equipment					
775	Rechargeable LED hand torch	Each	622.2	734.16	866.31	925.04
776	Safety Helmet – PVC	Each	131.5	155.23	183.17	195.58
777	Safety Shoes (Electrical Safety)	Pair	614.3	724.89	855.37	913.36
778	Rubber hand Gloves(1.1KV) Commander	Pair	589.4	695.49	820.68	876.32
779	Safety double adjustable belts(Karam)	Each	564.7	666.31	786.24	839.55
780	Safety Items as per the requirement of electrical inspector as under First Aid Box, Shock treatment chart, Rubber matts 8 mm thick, 4 Fire buckets with sand & M.S. Hooks / stand, Helmet, Hand gloves and, Fire extinguisher (2 Nos)	LS	10383.5	12252.55	14458.00	15438.21
	Fire extinguishers					
781	1 kg Dry Chemical Powder (MAP 50%); Fire rating : 1A, 8B	Each	1555.4	1835.42	2165.80	2312.63
782	2 kg Dry Chemical Powder (MAP 50%); Fire rating: 2A, 8B	Each	2022.1	2386.06	2815.55	3006.43
783	4 kg Dry Chemical Powder (MAP 50%); Fire Rating : 2A, 21B	Each	2540.6	2997.87	3537.48	3777.31
784	6 kg Dry Chemical Powder (MAP 50%); Fire Rating: 3A, 34B	Each	3318.3	3915.58	4620.38	4933.63
785	9 kg Dry Chemical Powder (MAP 50%) Fire Rating: 4A, 55B	Each	4748.7	5603.52	6612.15	7060.44
786	6 ltr Water type; Fire Rating : 2A	Each	2592.4	3059.05	3609.68	3854.40
787	9 ltr Water type, Fire Rating: 3A	Each	3110.9	3670.86	4331.61	4625.28
788	6 ltr Mechanical Foam type, Fire Rating: 2A, 21B	Each	2696.1	3181.41	3754.06	4008.57
789	9 ltr Mechanical Foam type, Fire Rating: 4A, 34B	Each	3318.3	3915.58	4620.38	4933.63
790	2 kg Carbon Dioxide Type, Fire Rating: 8B	Each	5310.2	6266.03	7393.92	7895.20
791	3 kg Carbon Dioxide Type, Fire Rating: 13B	Each	5444.1	6424.01	7580.33	8094.25
792	4.5 kg Carbon Dioxide Type, Fire Rating: 21B	Each	6169.9	7280.54	8591.03	9173.48



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793	6.5 kg Carbon Dioxide Type, Fire Rating: 55B	Each	8264.6	9752.26	11507.66	12287.85
794	9 kg Carbon Dioxide Type, Fire Rating: 70B	Each	14575.3	17198.88	20294.67	21670.58
795	22.5 kg Carbon Dioxide Type, Fire Rating: 70B	Each	20013.5	23615.88	27866.74	29756.01
796	Gas Pressure CTC fire extinguisher	Each	1503.0	1773.53	2092.77	2234.65
797	Fire Buckets (Capacity 10 Ltrs.)	Each	61.0	72.00	84.96	90.72
Feeder Pillar / SMDB / Distribution Board						
798	LT Mini Feeder Pillar (simple with fuse arrangement) (aluminium Bus)	Each	4666.4	5506.29	6497.43	6937.93
799	SMDB(1 in, 3 out) with housing 5 nos 20 Amp SPN MCB,	Each	2108.7	2488.30	2936.20	3135.26
800	TPN Distribution Board 12 way, 50 Amp TPN MCB,	Each	13947.2	16457.70	19420.09	20736.70
801	TPN Distribution Board 12 way, 100 Amp TPN MCB,	Each	25417.1	29992.17	35390.76	37790.14
802	TPN Distribution Board 12 way, 150 Amp TPN MCB,	Each	40200.1	47436.11	55974.61	59769.50
803	LT Feeder Piller box for 1 phase 8 connection made of M.S.Sheet.	Each	5579.8	6584.17	7769.32	8296.05
804	LT Feeder Piller box for 1 phase 12 connection made of M.S.Sheet.	Each	7040.4	8307.62	9802.99	10467.60
805	LT Feeder Piller box for 3 phase 4 connection made of M.S.Sheet.	Each	15967.5	18841.67	22233.17	23740.50
806	LT Feeder Piller box for 3 phase 8 connection made of M.S.Sheet.	Each	16727.9	19738.89	23291.89	24871.01
807	LT Feeder Pillar (simple with fuse arrangement) (aluminium Bus)	Each	25924.2	30590.53	36096.82	38544.06
	Aluminium End Terminal Lugs		0.0		0.00	0.00
809	10 Sq mm	Each	2.4	2.84	3.36	3.58
809	16 Sq mm	Each	2.4	2.84	3.36	3.58
810	25 Sq mm	Each	4.8	5.70	6.73	7.18
811	32 Sq mm	Each	6.0	7.12	8.40	8.97
812	50 Sq mm	Each	9.7	11.41	13.46	14.38
813	70 Sq mm	Each	14.5	17.11	20.19	21.56
814	95 Sq mm	Each	18.1	21.39	25.24	26.96



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815	120 sq mm	Each	25.4	29.95	35.34	37.73
816	150 Sq mm	Each	29.0	34.22	40.38	43.12
817	185 Sq mm	Each	45.9	54.19	63.94	68.27
818	225 Sq mm	Each	52.0	61.30	72.34	77.24
819	240 Sq mm	Each	74.9	88.41	104.32	111.39
820	300 sqmm	Each	88.2	104.10	122.84	131.17
821	400 Sq mm	Each	113.6	134.06	158.19	168.92
	Other Misc. Equipment					
822	Earthing G.I.Strip (65x6)mm2	Kg	84.0	99.12	116.96	124.89
823	Rain Coat	Each	830.8	980.35	1156.81	1235.24
824	Rubber mat along length of pannel	Each	3087.0	3642.66	4298.34	4589.75
825	Aluminium pipe 40 mm dia	Mtr	387.2	456.84	539.07	575.61
826	400 watt/250 V HPSV Lamp fitting complete for 33/11 KV PSS Yard lightining	Set	5453.6	6435.27	7593.62	8108.44
827	30 V 80 AH Battery Charging unit complete with battery and stand	Set	64014.8	75537.42	89134.15	95177.15
828	30 Volts 100 AH lead Acid Battery with Battery Charger and Stand	Each	146280.1	172610.48	203680.37	217489.20
829	30V, 40 Amp. Float-cum-Boost Battery Charger with full wave rectification for 230 V, 1 phase, 50	Set	43986.8	51904.37	61247.15	65399.50
830	Polycarbonate seal bit	Each	4.9	5.74	6.78	7.24
831	Sticker seal with Hologram	Each	2.8	3.27	3.86	4.12
832	Earth knob	Each	27.5	32.50	38.35	40.95
833	MS Earth Mat for switch yard	MT	75338.1	88898.95	104900.76	112012.68
834	Rail piece 44.64Kg/m 6.92 meter long for power transformer	Mtr	3924.9	4631.33	5464.97	5835.48
835	Aluminium binding wire	Kg	285.4	336.82	397.45	424.39
836	GI Wire No. 6/8/10	Kg	79.4	93.66	110.52	118.01
837	T/C Fuse wire 12/ 14/ 16/ 18/ 22/ 28/ 32 SWG	Kg	910.0	1073.82	1267.10	1353.01
838	M S Nuts & Bolts of different size	MT	76000.0	89680.00	105822.40	112996.80
839	Galvanised Nuts & Bolts(Assorted size)	MT	90678.0	107000.00	126260.00	134820.00



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840	Jointing sleeves (Alumnium) suitable for 34/55 sq.mm	Each	107.0	126.31	149.04	159.15
841	Jointing sleeves (Alumnium) suitable for 70-100 sq.mm	Each	155.0	182.86	215.77	230.40
842	Jointing sleeves (Alumnium) suitable for 150-232 sq.mm	Each	220.0	259.60	306.33	327.10
843	Anticlimbing Device(Barbed wire) 2x12 SWG	Kg	68.6	81.00	95.58	102.06
844	Al paint	Litre	302.1	356.44	420.59	449.11
845	Red oxide paint	Litre	287.8	339.59	400.72	427.89
846	LT Phase Seperator	Set	29.2	34.43	40.63	43.38
847	3 mm Thick MS plate with weight of 0.36 kg Asset Tag	Each	22.0	26.00	30.68	32.76
848	Transformer oil (EHV Grade)	KL	127200.0	150096.00	177113.28	189120.96
849	Natural Ester Oil	KL	189550.0	223669.00	263929.42	281822.94
850	C-wedge Connector for 0.2sq Panther Conductor (Nominal Aluminum Area 200mm2)	Each	971.4	1146.22	1352.55	1444.24
851	Fault Locator Machine for UG cables (FLC) without vehicle	Each	3435430.2	4053807.65	4783493.03	5107797.64
852	Transformer Oil Testing Kit (220/230 AC)	Each	49384.3	58273.48	68762.71	73424.58
853	Transformer Oil Filter Machine (500 GPH)	Each	518475.0	611800.50	721924.59	770868.63
	Furniture					
854	Thrive Mid Back Revolving Chair - Size:75cm(W) x 75cm(D) x 100cm-109cm(H) x 45cm-54cm (Seat Height).	Each	11016.2	12999.12	15338.96	16378.89
856	Thrive Non-Revolving Visitor Chair - Size:63.5cm(W) x 59.5cm(D) x 97.5cm(H) x 42.5cm (Seat Height).	Each	9232.2	10894.00	12854.92	13726.43
857	Regency Non-Revolving Visitor Chair with armrest - Size:59cm(W) x 63cm(D) x 81.5cm(H) x 45cm (Seat Height).	Each	9847.7	11620.26	13711.91	14641.53



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858	Regency Mid Back Revolving Chair - Size:76.3cm(W) x 76.3cm(D) x 78.5cm-90.5cm(H) x 44.2cm-54.2cm (Seat Height).	Each	16890.0	19930.22	23517.66	25112.08
859	Bravo Mid Back Revolving Chair - Size:76.3cm(W) x 76.3cm(D) x 85.5cm-97.5cm(H) x 42.5cm-54.5cm (Seat Height).	Each	8116.1	9576.98	11300.84	12067.00
860	High Back Revolving Chair - Size:76.1cm(W) x 76.1cm(D) x 114.5cm-131.5cm(H) x 44.5cm-54.5cm (Seat Height).	Each	33104.4	39063.13	46094.50	49219.55
861	Non-Revolving Visitor Chair - Size:60.9cm(W) x 64.7cm(D) x 98.2cm(H) x 46.2cm (Seat Height).	Each	23576.7	27820.48	32828.16	35053.80
862	Very High Back Revolving Chair - Size:77cm(W) x 77cm(D) x 134.9cm-143.9cm(H) x 49.9cm-58.9cm (Seat Height).	Each	58646.8	69203.19	81659.76	87196.02
863	Non-Revolving Visitor Chair - Size:59cm(W) x 68.5cm(D) x 89.5cm(H) x 46.5cm (Seat Height).	Each	32242.5	38046.10	44894.39	47938.08
864	Unlearn Single Seater CPU / Laptop Table for Computer Training Hall -Size: 90cm(W) x 60cm(D) x 68cm	Each	19405.5	22898.44	27020.16	28852.04
865	Unlearn 2 Seater Laptop Table for Meeting Hall - Size:135cm(W) x 60cm(D) x 68cm(H)	Each	21854.0	25787.72	30429.51	32492.53
866	Unlearn 4 Seater Laptop Table for Meeting Hall - Size:270cm(W) x 60cm(D) x 68cm(H)	Each	42717.9	50407.10	59480.38	63512.94
867	Talk Unitised 4-Seater Round Table - Size:120cm dia x 75cm(H)	Each	35176.0	41507.70	48979.09	52299.71
868	Talk Modular Conference Table - Size:67.5cm(W) x 60cm(D) x 75cm(H)	Each	10456.5	12338.63	14559.59	15546.68
869	Enterprise Table with CPU hanger - Size:165cm(W) x 90cm(D) x 72.8cm(H)	Each	26533.7	31309.71	36945.46	39450.24
870	Insight Table for Library - Size:180cm(W) X 90cm(D) X 74cm(H)	Each	11672.9	13774.06	16253.39	17355.32



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871	Versatila V2 Table for Faculty Sitting Area - Size:150cm(W) x 89.4cm(D) x 75cm(H)	Each	19386.5	22876.08	26993.77	28823.86
872	Executive Table with Right-Unit and Pedestal - Size:180cm(W) x 210cm(D) x 75cm(H)	Each	66496.4	78465.72	92589.55	98866.80
873	Main Desk Table - Size: 180cm(W) x 90cm(D) x 75cm(H)	Each	69062.0	81493.14	96161.91	102681.36
874	Back Unit for Impress Desk Table - Size: 221.5cm(W) x 41cm(D) x 200cm(H)	Each	75415.3	88990.00	105008.20	112127.40
875	Display Unit TV Cabinet Walnut Color - Size: 140cm(W) x 40cm(D) x 75.4cm(H)	Each	20458.0	24140.46	28485.75	30416.98
876	Time Out 4-Seater PU Coated Dining Table -Size: 113.5cm(W) x 117.5cm(D) x 75cm(H)	Each	16760.7	19777.60	23337.57	24919.78
877	Café Chair without Armrest - Size: 52.5cm(W) x 55.8cm(D) x 84.5cm(H) x 45cm (Seat Height)	Each	2790.8	3293.20	3885.97	4149.43
878	Apple Dining Table 6 Seater Glass Top - Size: 160cm(W) x 90cm(D) x 75cm(H)	Each	49824.9	58793.37	69376.18	74079.65
879	Silver Dining Chair - Size: 44.5cm(W) x 41.5cm(D) x 96cm(H)	Each	5726.6	6757.44	7973.77	8514.37
880	Dark Walnut Dining Chair - Size: 45cm(W) x 45cm(D) x 95cm(H)	Each	5887.2	6946.90	8197.34	8753.09
881	Coffee Table Walnut Color - Size: 100cm(W) x 65cm(D) x 45cm(H)	Each	14800.5	17464.60	20608.23	22005.40
882	3-Seater Leatherite Sofa - Size: 205.5cm(W) x 92cm(D) x 82cm(H)	Each	33227.0	39207.86	46265.27	49401.90
883	2-Seater Leatherite Sofa - Size: 100cm(W) x 92cm(D) x 82cm(H)	Each	27139.1	32024.14	37788.48	40350.41
884	Single Seater Leatherite Sofa - Size: 86cm(W) x 92cm(D) x 82cm(H)	Each	20817.1	24564.12	28985.66	30950.79
885	Plain Almirah - Size: 91.6cm(W) x 48.6cm(D) x 198cm(H)	Each	20836.0	24586.49	29012.05	30978.97
886	Glass Door Storwel Almirah - Size: 91.6cm(W) x 48.6cm(D) x 198cm(H)	Each	26389.8	31139.99	36745.19	39236.38



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887	Single Sided Wood & Steel Book Rack Base Unit - Size:90cm(W) x 30cm(D) x 189cm(H)	Each	20483.7	24170.72	28521.46	30455.11
888	All Steel Periodical Display Rack - Size:90cm(W) X 45cm(D) x 183cm(H)	Each	19189.2	22643.20	26718.97	28530.43
889	4 Door Bookcase (Without Top) - Size:91.4cmW x 32cm(D) x 174.2cm(H)	Each	26170.2	30880.79	36439.34	38909.80
890	White Board 4ft. X 3ft. With Stand	Each	4437.7	5236.49	6179.05	6597.97
891	L-Shaped Workstation made of 19mm thk white MDF board with pvc edges.Size:1800mm(L) + 1200mm(L)X 600mm(D)X 1200mm(H)	Each	45915.7	54180.53	63933.02	68267.46
892	Danger Board 33 kV/ 11 kV/ LT	Each	137.1	161.83	190.96	203.91
893	Route and Joint Indicator	Each	148.0	174.64	206.08	220.05
	Meter Box					
894	Poly carbonate weather proof outdoor type Meter cover boxes for single phase meter size 315mm x 265mm x 130mm along with zinc plated clamps	Each	283.4	334.44	394.64	421.39
895	Poly carbonate weather proof outdoor type Meter cover boxes for three phase meters 445mm x 345mm x 170mm along with zinc plated clamps	Each	463.0	546.34	644.68	688.39
896	Deep drawn M.S. sheet weather proof outdoor type Meter cover box for single phase Meter size 300mm x 250mm x 160mm along with Zinc plated clamps	Each	357.9	422.34	498.36	532.15
897	Deep drawn M.S. sheet weather proof outdoor type Meter cover box for three phase Meter size 500mm x 300mm x 160mm along with Zinc plated clamps	Each	1211.0	1428.97	1686.18	1800.50
898	Metal Box of CT 800/5 Amp	Each	9120.9	10762.69	12699.98	13560.99
899	Meter Box made of m/s sheet etc. CRCA Metal sheet each fitted with 4no. Racing cost CT ratio 400/5A	Each	2438.2	2877.11	3394.99	3625.16
900	Meter Box	Each	473.4	558.62	659.17	703.85
901	Meter Box made of m/s sheet etc. CRCA Metal sheet each fitted with 4no. Racing cost CT ratio 800/5A	Each	2470.2	2914.80	3439.46	3672.65
902	Metal Box of CT 400/5 Amp	Each	9120.9	10762.69	12699.98	13560.99



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	Gas insulated Switchgear S/S					
903	30kV, 10kA, Metal Oxide, station class, Surge Arrester (SCADA Compliant)(for 33kV Incoming Line, HT side of 2nos. Power Transformers and 33/0.433kV Station Transformer) - Outdoor Type with Surge Counter.	Set	14929.5	17616.82	20787.85	22197.20
904	33kV Indoor Gas Insulated Switchgear Panel (SCADA compliants) with: Breaker: 36KV, 1250 A, (25KA S.C. rating), 3-Ph, indoor type Breaker (with 30V DC tripping/closing coil and associated control) along with marshalling box, terminal connectors and required accessories complete as per applicable TS CT:36KV, 1-PH, 25KA (800^00-200/ 1-1 -1 A) indoor type Current Transformer, having three secondary cores (protection & metering & current differential protection) along with terminal connectors, junction box and required accessories etc. complete as per applicable TS (1 set = 3 nos.) PTs: 36KV, 1-PH, 33KV/110 V, single core outdoor type Potential Transformer along with terminal connectors, junction box and required accessories etc. complete as per applicable TS (1 set= 3 nos.) and digital Ammeter/voltmeter/Energy meter, O/C and E/F relay etc. The cable chamber shall have 3 nos., 20kV, 10 kA distribution class valve type lightning arresters and isolators of capacity given in TS. for Feeder Protection	Set	1908838.0	2252428.84	2657866.03	2838060.34
905	33kV Indoor Gas Insulated Switchgear Panel (SCADA compliants) consisting of 36 KV Breaker- 630A,25 KA for 3 sec,3 phase Single Busbar- 1250A(Copper) , 36 KV single phase, (800-400-200/1-1 A) 3 Nos of Indoor type CT's,33	Set	1908838.0	2252428.84	2657866.03	2838060.34



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
	KV/110Volts Potential transformers, indoor mounting type control panel, Control cabelling between GIS and indoor control panel and required accessories,bi-metalic clamps,ammeter ,voltmeter,modem compatible DLMS compliant class 1 meter static tri-vector energy meter,relays and accessories complete for Bus Coupler protection.					
906	33kV Indoor Gas Insulated Switchgear Panel (SCADA compliants) consisting of 36 KV Breaker-630A,25 KA for 3 sec,3 phase Single Busbar-1250A(Copper) , 36 KV single phase, (800-400-200/1-1-1A) 3 Nos of Indoor type CT's,33 KV/110Volts Potential transformers, indoor mounting type control panel, Control cabelling between Breaker's and indoor control panel and required accessories,bi-metalic clamps,ammeter ,voltmeter,modem compatible DLMS compliant class 1 meter static tri-vector energy meter,relays and accessories complete for power transformer protection.	Set	1684269.0	1987437.42	2345176.16	2504171.15
907	11 KV indoor gas insulated switch gear panel (SCADA compliants) consisting of 1250 A, 25kA for 3 seconds, 3-ph, indoor type Breaker along with 12 kV, 1-Phase, 600-300/1-1-1-1 Amp 3 Nos indoor type Current Transformer, 11 kV/110 Volts Potential Transformers, indoor mounting type control panel for Transformer breaker, control cabling between Breaker and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, Modem compatible DLMS Complaint Class A Static Tri-Vector Energy Meter,	Set	1414786.0	1669447.48	1969948.03	2103503.82



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
	Relay & accessories complete for transformer protection					
908	12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor gas insulated switch gear panel (SCADA compliants) along with 12 kV, 1-Phase, 600-300/1-1-1-1 Amp 3 Nos indoor type Current Transformer, 11 kV/110 Volts Potential Transformers, indoor mounting type control panel for Transformer breaker, control cabling between Breaker and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, Modem compatible DLMS Complaint Class A Static Tri-Vector Energy Meter, Relay & accessories complete for bus coupler protection	Set	1414786.0	1669447.48	1969948.03	2103503.82
909	12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor gas insulated switch gear panel (SCADA compliants) along with 12 kV, 1-Phase, 600-300/1-1-1-1 Amp 3 Nos indoor type Current Transformer, 11 kV/110 Volts Potential Transformers, indoor mounting type control panel for Transformer breaker, control cabling between Breaker and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, Modem compatible DLMS Complaint Class A Static Tri-Vector Energy Meter, Relay & accessories complete for feeder protection	Set	1366129.0	1612032.22	1902198.02	2031160.60
910	Remote Terminal Unit (RTU) & Accessories with PC & connections with 30 nos. analog points for voltage, frequency, MW, MVAR ; 3 positional analog points for OLTC and 28 digital points for breaker and isolator status.	Set	713989.0	842507.02	994158.28	1061558.85
911	Flexible Cu. Earth bond 1cm dia & 500mm long, both end provision of socket suitable for M-16 bolts.	Set	627.4	740.29	873.55	932.77



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912	G-3 GI Beam(5.05mtr long, consisting of 2 Nos 150X75 X5.7mm) for 33kV incoming line - (2 nos. Beam- one for Surge Arrester and other for Isolator, Nominal Unit Wt - 0.2 MT)	Set	17483.4	20630.39	24343.86	25994.29
913	GI Spikes with cone and GI (2 nos) base plate 10mm (50x2500 mm GI pipe) (Unit Wt=0.04 MT)	Set	3656.4	4314.58	5091.21	5436.37
914	12 kV, 630 A, 25kA for 3 seconds, 3-ph double break centre rotating type (DBCR), Gang Operated Isolator along with earth switch and Support Insulators, Operating Mechanism, Base Channel, down Pipe and all required accessories complete as per technical specifications, without earth switch for substation transformers.	Set	18961.0	22373.98	26401.30	28191.21
915	60 KG/mtr Rail pole pieces 5.4 mts (2.7x2) 44.62 kg per mtr/ Transformer (Unit Wt=0.240 MT)	Set	20224.7	23865.15	28160.87	30070.09
916	2 tier 2 rows cable trench (internal width 1500 mm,depth 680 mm, width 75X75X6 mm support angles fixed RCC column of 250 X 250 mm & with ladder type cable tray (45X45X5mm two angles at both side having welded flats of 25X5 mm at a gap of 150mm) for Power & control Cable	Set	4239.0	5001.99	5902.35	6302.51
917	Chequerred plate 1000X300X5.6mm thick for Cable Trench in side Control Room 12 Mtr	Mtr	73475.6	86701.20	102307.41	109243.51
918	Overhead hoist beam mounted remote opertated for lifting of equipment of control room,capacity 5 tonnes	MT	1127250.5	1330155.63	1569583.64	1675996.09
919	36kV, 800 A, 25kA for 3 seconds, 3-ph double break centre rotating type (DBCR), motorised indoor floor mounted off load Isolator along with all required accessories complete as per technical specifications, scope of works and approved	Each	64461.0	76063.95	89755.46	95840.58



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920	External Electrification in switch yard area including power receptacles, station yard lighting with 6 Nos lighting pole (fitted with 2x100 watts LED flood light) made of 11 meters high Steel Tubular Poles (IS 2713 part I, II III) of designation 410 – SP - 60 and 6 nos light (1 X 250 W LED) on structure & control room complete as per technical specifications, approved drawings and scope of the work.	Set	566949.2	669000.00	789420.00	842940.00
921	Internal Electrification works of control room comprising of Main Distribution Board, Sub-distribution Boards, copper flexible multi conductor 2.5 sqmm wiring (for light & fan)/4 sqmm wiring(for power points), power and light points, conduits, fan/LED lamps/tube fittings, exhaust fans, switches, sockets, 2mm thick, PVC 25mm dia conduits pipes in recess, plugs, miniature circuit breakers, seperate independent earthing (2 Nos of 40mm GI Pipe/3-m long) etc as required including DC emergency lighting and auto-change-over switch as per technical specifications, approved drawings and scope of work.	Lumpsum	239772.7	282931.77	333859.49	356494.04
922	Overhead Distance to Fault Locator (Offline) with signature analyser. A)Accessories & Laptop as per latest technical specifications	Set	2843250.0	3355035.00	3958941.30	4227344.10
	Tower line for river crossings					
923	D Type Tower for 33kV, 11kV (Double Circuit line) (13.56MT each) with all related nuts and bolts including foundation nuts and bolts (G I type)	MT	84744.1	99998.06	117997.71	125997.56
924	D Type Tower for 33kV, 11kV (four Circuit line) (15.14MT)(Double circuit tower +3meter extension	MT	84744.1	99998.06	117997.71	125997.56



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	each) with all related nuts and bolts including foundation nuts and bolts (G I type)					
925	Compression type tension hardware fitting for earth wire	Each	520.7	614.43	725.03	774.18
926	Vibration damper suitable for 7/3.15 mm GI Earth wire	Each	769.9	908.53	1072.07	1144.75
927	25x500 mm flexible Cu. Earth bond.	Each	510.2	602.01	710.37	758.53
	Covered Conductor & accessories					
928	ACSR covered Panther Conductor (200 sq. mm)	Mtr	1526.7	1801.45	2125.71	2269.83
929	ACSR covered Wolf Conductor (150 sq. mm)	Mtr	1083.5	1278.51	1508.65	1610.93
930	ACSR covered Dog conductor (100 sq. mm)	Mtr	770.4	909.08	1072.72	1145.44
931	ACSR covered Rabbit conductor (50 sq. mm)	Mtr	267.2	315.30	372.05	397.27
932	Mid Span Joint(150 sq mm & 200 sq mm)	Each	1866.5	2202.52	2598.98	2775.18
933	Suspension ties((150 sq mm & 200 sq mm))	Each	2203.6	2600.19	3068.23	3276.24
934	Tension Clamp(Wedge type)((150 sq mm & 200 sq mm))	Each	2527.6	2982.57	3519.43	3758.04
935	Insulation piercing connector(Bare to Covered)((150 sq mm & 200 sq mm))	Each	3499.8	4129.71	4873.06	5203.44
936	Insulation piercing connector(Covered to covered)((150 sq mm & 200 sq mm))	Each	3240.5	3823.81	4512.10	4818.01
937	Insulation piercing connector with aluminium bail for Earthing((150 sq mm & 200 sq mm))	Each	5573.7	6576.96	7760.81	8286.97
938	Mid Span Joint(100 sq mm & 50 sq mm)	Each	2146.5	2532.89	2988.81	3191.44
939	Suspension ties((100 sq mm & 50 sq mm))	Each	2534.1	2990.22	3528.46	3767.67
940	Tension Clamp(Wedge type)((100 sq mm & 50 sq mm)	Each	2906.7	3429.96	4047.36	4321.75
941	Insulation piercing connector(Bare to Covered)(100 sq mm & 50 sq mm)	Each	4024.7	4749.18	5604.03	5983.96
942	Insulation piercing connector(Covered to covered)(100 sq mm & 50 sq mm)	Each	3726.6	4397.38	5188.91	5540.70
	LED Lights and related Items					



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944	LED light-190W	Each	To be adopted from Energy Department SoR			
945	LED light-120W	Each				
946	LED light-75W	Each				
947	LED light-40W	Each				
948	18 Watt LED Panel Bulb with outer 205x205x25 mm sq. and 180x180 mm inner	Each				
	Diesel Generator sets(Three Phase) with AMF Panel					
949	10KVA	Each	To be adopted from Energy Department SoR			
950	20KVA	Each				
951	30KVA	Each				
952	40KVA	Each				
953	50KVA	Each				
954	62.5KVA	Each				
955	82.5KVA	Each				
956	100KVA	Each				
957	160KVA	Each				
	TRW Related Items					
958	1/2 " L.T. Brass Studs	Each	322.0	380.00	448.40	478.80
959	1/2 " H.T. Brass Studs	Each	245.9	290.14	342.36	365.57
960	L.T Bushing 3347 250 AmP	Each	15.9	18.73	22.10	23.60
961	L.T. Bushing 250 Amp	Each	34.9	41.14	48.55	51.84
962	Kraft Paper 4 Mile	Kg	237.3	280.00	330.40	352.80
963	Insulating Paper Tap 2.0 mm	Kg	302.7	357.17	421.47	450.04
964	Press Board 1 mm	Kg	190.9	225.30	265.85	283.87
965	Bakelite Tube 3/8X1/2"	Mtr	18.6	21.98	25.94	27.70
966	Empire Sleeving size 4 mm	Mtr	6.5	7.67	9.05	9.66
967	R.C. Sheet 3 X2X1/2 mm	Kg	283.5	334.50	394.71	421.47
968	Inline Connector 6 mm	Each	7.6	9.00	10.62	11.34
969	Cotton Tap 1"	Roll	89.0	105.00	123.90	132.30
970	R.C. Strip	Mtr	56.7	66.90	78.94	84.29



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971	R.C. Washer 50X28X2	Each	6.5	7.69	9.08	9.69
972	Silicagel Breather 200 KVA	Each	279.4	329.70	389.05	415.43
973	M.Seal	Kg	395.8	467.08	551.15	588.52
974	C.I.Cap 1" 8 1/2"	Each	7.6	8.92	10.53	11.24
975	Insulating Paper top 2.5 mil 20 mm	Kg	226.8	267.60	315.77	337.18
976	Crap Paper	Kg	521.6	615.44	726.22	775.46
977	G.P. Thinner	Litre	123.9	146.17	172.48	184.17
978	D.A. Gray Paint	Litre	298.0	351.68	414.98	443.11
979	White Paint	Litre	365.1	430.81	508.35	542.82
980	Nylon Washer 3/4"	Each	2.8	3.35	3.95	4.21
981	M.S. Plug	Kg	55.1	65.00	76.70	81.90
982	L.T. AL.Strip 6.50X4.50 mm	Kg	183.9	217.00	256.06	273.42
983	DPC Aluminum Winding wire	Kg	266.5	314.47	371.07	396.23
984	DPC Aluminum Winding Strip	Kg	266.5	314.47		
985	Transformer testing bench panel for 10 kVA to 500 kVA distribution transformer with its Installatio	Nos.	1058553.1	1249092.69	1473929.37	1573856.79
	Transformer Repairing Items					
986	L.T Bushing Rod assembly of 750 KVA Transformer.	Set	7247.5	8552.05	10091.42	10775.58
987	H.T Bushing Rod assembly of 750 KVA Transformer.	Set	2230.0	2631.40	3105.05	3315.56
988	L.T Bushing insulator of 750 KVA Transformer.	Each	557.5	657.85	776.26	828.89
989	H.T Bushing insulator of 750 KVA Transformer.	Each	1672.5	1973.55	2328.79	2486.67
990	L.T Bushing gasket set of 750 KVA Transformer.	Each	1115.0	1315.70	1552.53	1657.78
991	H.T Bushing gasket set of 750 KVA Transformer.	Each	1003.5	1184.13	1397.27	1492.00
992	Tank gasket set of 750 KVA Transformer.	Each	9477.5	11183.45	13196.47	14091.15
993	Silica gel breather of 750 KVA Transformer.	Each	2787.5	3289.25	3881.32	4144.46
994	Arching Horn of 750 KVA Transformer,	Each	278.8	328.93	388.13	414.45
995	L.T Bushing Rod assembly of 500 KVA Transformer	Set	4683.0	5525.94	6520.61	6962.68
996	H.T Bushing Rod assembly of 500 KVA Transformer	Set	1839.8	2170.91	2561.67	2735.34
997	L.T Bushing insulator of 500 KVA Transformer	Each	412.6	486.81	574.43	613.38
998	H.T Bushing insulator of 500 KVA Transformer	Each	1338.0	1578.84	1863.03	1989.34
999	L.T Bushing gasket set of 500 KVA Transformer	Each	724.8	855.21	1009.14	1077.56



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1000	H.T Bushing gasket set of 500 KVA Transformer	Each	613.3	723.64	853.89	911.78
1001	Tank gasket set of 500 KVA Transformer	Each	6132.5	7236.35	8538.89	9117.80
1002	Silica gel Breather of 500 KVA Transformer	Each	2007.0	2368.26	2794.55	2984.01
1003	Arching Horn of 500 KVA Transformer	Each	223.0	263.14	310.51	331.56
1004	L.T Bushing Rod assembly of 400 KVA Transformer	Set	3791.0	4473.38	5278.59	5636.46
1005	H.T Bushing Rod assembly of 400 KVA Transformer	Set	1728.3	2039.34	2406.42	2569.56
1006	L.T Bushing insulator of 400 KVA Transformer	Each	390.3	460.50	543.38	580.22
1007	H.T Bushing insulator of 400 KVA Transformer	Each	1226.5	1447.27	1707.78	1823.56
1008	L.T Bushing gasket set of 400 KVA Transformer	Each	613.3	723.64	853.89	911.78
1009	H.T Bushing gasket set of 400 KVA Transformer	Each	535.2	631.54	745.21	795.74
1010	Tank gasket set of 400 KVA Transformer	Each	5352.0	6315.36	7452.12	7957.35
1011	Silica gel Breather of 400 KVA Transformer	Each	2007.0	2368.26	2794.55	2984.01
1012	Arching Horn of 400 KVA Transformer	Each	223.0	263.14	310.51	331.56
1013	L.T Bushing Rod assembly of 315 KVA Transformer	Set	3456.5	4078.67	4812.83	5139.12
1014	H.T Bushing Rod assembly of 315 KVA Transformer	Set	1616.8	1907.77	2251.16	2403.78
1015	L.T Bushing insulator of 315 KVA Transformer	Each	390.3	460.50	543.38	580.22
1016	H.T Bushing insulator of 315 KVA Transformer	Each	1226.5	1447.27	1707.78	1823.56
1017	L.T Bushing gasket set of 315 KVA Transformer	Each	557.5	657.85	776.26	828.89
1018	H.T Bushing gasket set of 315 KVA Transformer	Each	501.8	592.07	698.64	746.00
1019	Tank gasket set of 315 KVA Transformer	Each	5017.5	5920.65	6986.37	7460.02
1020	Silica gel Breather of 315 KVA Transformer	Each	2007.0	2368.26	2794.55	2984.01
1021	Arching Horn of 315 KVA Transformer	Each	223.0	263.14	310.51	331.56
1022	L.T Bushing Rod assembly of 250 KVA Transformer	Set	3233.5	3815.53	4502.33	4807.57
1023	H.T Bushing Rod assembly of 250 KVA Transformer	Set	1059.3	1249.92	1474.90	1574.89
1024	L.T Bushing insulator of 250 KVA Transformer	Each	262.0	309.19	364.84	389.58
1025	H.T Bushing insulator of 250 KVA Transformer	Each	724.8	855.21	1009.14	1077.56
1026	L.T Bushing gasket set of 250 KVA Transformer	Each	362.4	427.60	504.57	538.78
1027	H.T Bushing gasket set of 250 KVA Transformer	Each	390.3	460.50	543.38	580.22
1028	Tank gasket set of 250 KVA Transformer	Each	3623.8	4276.03	5045.71	5387.79
1029	Silica gel Breather of 250 KVA Transformer	Each	1672.5	1973.55	2328.79	2486.67
1030	Arching Horn of 250 KVA Transformer	Each	223.0	263.14	310.51	331.56



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1031	L.T Bushing Rod assembly of 200 KVA Transformer	Set	2787.5	3289.25	3881.32	4144.46
1032	H.T Bushing Rod assembly of 200 KVA Transformer	Set	947.8	1118.35	1319.65	1409.11
1033	L.T Bushing insulator of 200 KVA Transformer	Each	223.0	263.14	310.51	331.56
1034	H.T Bushing insulator of 200 KVA Transformer	Each	724.8	855.21	1009.14	1077.56
1035	L.T Bushing gasket set of 200 KVA Transformer	Each	351.2	414.45	489.05	522.20
1036	H.T Bushing gasket set of 200 KVA Transformer	Each	390.3	460.50	543.38	580.22
1037	Tank gasket set of 200 KVA Transformer	Each	3345.0	3947.10	4657.58	4973.35
1038	Silica gel Breather of 200 KVA Transformer	Each	1672.5	1973.55	2328.79	2486.67
1039	Arching Horn of 200 KVA Transformer	Each	223.0	263.14	310.51	331.56
1040	L.T Bushing Rod assembly of 100 KVA Transformer	Set	992.4	1170.97	1381.75	1475.43
1041	H.T Bushing Rod assembly of 100 KVA Transformer	Set	947.8	1118.35	1319.65	1409.11
1042	L.T Bushing insulator of 100 KVA Transformer	Each	133.8	157.88	186.30	198.93
1043	H.T Bushing insulator of 100 KVA Transformer	Each	724.8	855.21	1009.14	1077.56
1044	L.T Bushing gasket set of 100 KVA Transformer	Each	323.4	381.55	450.23	480.76
1045	H.T Bushing gasket set of 100 KVA Transformer	Each	345.7	407.87	481.28	513.91
1046	Tank gasket set of 100 KVA Transformer	Each	1338.0	1578.84	1863.03	1989.34
1047	Silica gel Breather of 100 KVA Transformer	Each	1672.5	1973.55	2328.79	2486.67
1048	Arching Horn of 100 KVA Transformer	Each	223.0	263.14	310.51	331.56
1049	L.T Bushing Rod assembly of 63 KVA Transformer	Set	836.3	986.78	1164.39	1243.34
1050	H.T Bushing Rod assembly of 63 KVA Transformer	Set	836.3	986.78	1164.39	1243.34
1051	L.T Bushing insulator of 63 KVA Transformer	Each	100.4	118.41	139.73	149.20
1052	H.T Bushing insulator of 63 KVA Transformer	Each	724.8	855.21	1009.14	1077.56
1053	L.T Bushing gasket set of 63 KVA Transformer	Each	323.4	381.55	450.23	480.76
1054	H.T Bushing gasket set of 63 KVA Transformer	Each	345.7	407.87	481.28	513.91
1055	Tank gasket set of 63 KVA Transformer	Each	1170.8	1381.49	1630.15	1740.67
1056	Silica gel Breather of 63 KVA Transformer	Each	1338.0	1578.84	1863.03	1989.34
1057	Arching Horn of 63 KVA Transformer	Each	178.4	210.51	248.40	265.25
1058	L.T Bushing Rod assembly of 25 KVA Transformer	Set	669.0	789.42	931.52	994.67
1059	H.T Bushing Rod assembly of 25 KVA Transformer	Set	836.3	986.78	1164.39	1243.34
1060	L.T Bushing insulator of 25 KVA Transformer	Each	100.4	118.41	139.73	149.20
1061	H.T Bushing insulator of 25 KVA Transformer	Each	724.8	855.21	1009.14	1077.56



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					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
1062	L.T Bushing gasket set of 25 KVA Transformer	Each	323.4	381.55	450.23	480.76
1063	H.T Bushing gasket set of 25 KVA Transformer	Each	345.7	407.87	481.28	513.91
1064	Tank gasket set of 25 KVA Transformer	Each	1003.5	1184.13	1397.27	1492.00
1065	Silica gel Breather of 25 KVA Transformer	Each	1338.0	1578.84	1863.03	1989.34
1066	Arching Horn of 25 KVA Transformer	Each	178.4	210.51	248.40	265.25
	AB Switch Repairing Item					
1067	Jaw of Air Break Switch 600A	Each	1561.0	1841.98	2173.54	2320.89
1068	Blade of of Air Break Switch 600A	Each	1338.0	1578.84	1863.03	1989.34
1069	Post insulator of Air Break Switch 600A	Each	446.0	526.28	621.01	663.11
1070	Bearing of Air Break Switch 600A	Each	390.3	460.50	543.38	580.22
1071	Phase coupling pipe of Air Break Switch 600 A	Each	446.0	526.28	621.01	663.11
1072	Down Pipe of Air Break Switch 600 A	Each	1003.5	1184.13	1397.27	1492.00
1073	Operating Handle of Air Break Switch 600 A	Each	669.0	789.42	931.52	994.67
1074	Operating leaver of Air Break Switch 600 A	Each	223.0	263.14	310.51	331.56
1075	Connector of Air Break Switch 600 A	Each	356.8	421.02	496.81	530.49
1076	Arching horn of Air Break Switch 600 A	Each	61.3	72.36	85.39	91.18
1077	Jaw of Air Break Switch 400A	Each	1449.5	1710.41	2018.28	2155.12
1078	Blade of of Air Break Switch 400A	Each	1226.5	1447.27	1707.78	1823.56
1079	Post insulator of Air Break Switch 400A	Each	446.0	526.28	621.01	663.11
1080	Bearing of Air Break Switch 400A	Each	390.3	460.50	543.38	580.22
1081	Phase coupling pipe of Air Break Switch 400 A	Each	446.0	526.28	621.01	663.11
1082	Down Pipe of Air Break Switch 400 A	Each	1003.5	1184.13	1397.27	1492.00
1083	Operating Handle of Air Break Switch 400 A	Each	669.0	789.42	931.52	994.67
1084	Operating leaver of Air Break Switch 400 A	Each	223.0	263.14	310.51	331.56
1085	Connector of Air Break Switch 400 A	Each	356.8	421.02	496.81	530.49
1086	Arching horn of Air Break Switch 400 A	Each	61.3	72.36	85.39	91.18
1087	Jaw of Air Break Switch 200A	Each	1338.0	1578.84	1863.03	1989.34
1088	Blade of of Air Break Switch 200A	Each	1115.0	1315.70	1552.53	1657.78
1089	Post insulator of Air Break Switch 200A	Each	446.0	526.28	621.01	663.11
1090	Bearing of Air Break Switch 200A	Each	390.3	460.50	543.38	580.22
1091	Phase coupling pipe of Air Break Switch 200 A	Each	446.0	526.28	621.01	663.11



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1092	Down Pipe of Air Break Switch 200 A	Each	1003.5	1184.13	1397.27	1492.00
1093	Operating Handle of Air Break Switch 200 A	Each	669.0	789.42	931.52	994.67
1094	Operating lever of Air Break Switch 200 A	Each	223.0	263.14	310.51	331.56
1095	Connector of Air Break Switch 200 A	Each	356.8	421.02	496.81	530.49
1096	Arching horn of Air Break Switch 200 A	Each	61.3	72.36	85.39	91.18
	VCB Repairing Item					
1097	Trip Coil of 33KV VCB	Each	1393.8	1644.63	1940.66	2072.23
1098	Trip Coil of 11KV VCB	Each	1338.0	1578.84	1863.03	1989.34
1099	Closing Coil of 33KV VCB	Each	1393.8	1644.63	1940.66	2072.23
1100	Closing Coil of 11KV VCB	Each	1338.0	1578.84	1863.03	1989.34
1101	Push Button Switch 5A	Each	27.9	32.89	38.81	41.44
1102	Test Terminal Block 5A	Each	23.4	27.63	32.60	34.81
1103	33 KV Indoor current transformers of ratio as required suitable for metering and protection.	Each	9756.3	11512.38	13584.60	14505.59
1104	33 KV outdoor current transformers of ratio as required suitable for metering and protection.	Each	20571.8	24274.67	28644.10	30586.08
1105	11 KV Indoor current transformers of ratio as required suitable for metering and protection.	Each	4337.4	5118.07	6039.33	6448.77
1106	11 KV outdoor current transformers of ratio as required suitable for metering and protection.	Each	11027.4	13012.27	15354.48	16395.46
1107	33000/110 volts single phase voltage Transformer Indoor.	Each	9477.5	11183.45	13196.47	14091.15
1108	33000/110 volts single phase voltage Transformer outdoor.	Each	20516.0	24208.88	28566.48	30503.19
1109	11000/110 volts single phase voltage Transformer Indoor.	Each	18397.5	21709.05	25616.68	27353.40
1110	11000/110 volts single phase voltage Transformer outdoor.	Each	11027.4	13012.27	15354.48	16395.46
1111	Flush type switchboard mounting pattern 96x96 sq.mm M.I. Voltmeter	Each	2899.0	3420.82	4036.57	4310.23
1112	Voltmeter phase selector switch.	Each	167.3	197.36	232.88	248.67



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1113	Indicating lamps coloured red, amber and blue, white, green, etc.	Each	217.4	256.56	302.74	323.27
1114	Auxiliary switch having minimum of 8 contacts, 4 normally open and 4 normally closed	Each	1048.1	1236.76	1459.37	1558.32
1115	Flush mounting pattern 96x96 sq.mm M.I. Ammeter	Each	2899.0	3420.82	4036.57	4310.23
1116	Ammeter selector switch to indicate phase current	Each	167.3	197.36	232.88	248.67
1117	Over current and Earth fault numerical relay	Each	34509.3	40720.92	48050.68	51308.35
1118	Automatic door illuminating lamps with Switch	Each	50.2	59.21	69.86	74.60
1119	240 V, 100 W, AC single phase anti / condensation heaters, with thermostat (0-60 deg. C) and switch	Each	551.9	651.27	768.50	820.60
1120	Operation counter for VCB	Each	133.8	157.88	186.30	198.93
1121	Bus Bar Spout Epoxy casted R Phase of 33KV indoor VCB	Each	2146.4	2532.72	2988.61	3191.23
1122	Bus Bar Spout Epoxy casted Y Phase of 33KV indoor VCB	Each	2146.4	2532.72	2988.61	3191.23
1123	Bus Bar Spout Epoxy casted B Phase of 33KV indoor VCB	Each	2146.4	2532.72	2988.61	3191.23
1124	Circuit Spout Epoxy casted of 33KV indoor VCB	Each	2146.4	2532.72	2988.61	3191.23
1125	Housing for vacuum interrupter of 33KV indoor VCB	Each	2224.4	2624.82	3097.29	3307.28
1126	Drive Insulator 33KV VCB	Each	1505.3	1776.20	2095.91	2238.01
1127	Release Coil of 33KV indoor VCB	Each	540.8	638.11	752.98	804.02
1128	Bus Bar Spout Epoxy casted R Phase of 11KV indoor VCB	Each	919.9	1085.45	1280.83	1367.67
1129	Bus Bar Spout Epoxy casted Y Phase of 11KV indoor VCB	Each	919.9	1085.45	1280.83	1367.67
1130	Bus Bar Spout Epoxy casted B Phase of 11KV indoor VCB	Each	919.9	1085.45	1280.83	1367.67
1131	Circuit Spout Epoxy casted of 11KV indoor VCB	Each	919.9	1085.45	1280.83	1367.67
1132	Housing for vacuum interrupter of 11KV indoor VCB	Each	1087.1	1282.81	1513.71	1616.34
1133	Drive Insulator of 11KV VCB	Each	512.9	605.22	714.16	762.58
1134	Release Coil of 11KV indoor VCB	Each	540.8	638.11	752.98	804.02



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1135	Vacuum Interrupter of 33KV Outdoor Type	Each	43206.3	50983.38	60160.38	64239.05
1136	Vacuum Interrupter of 33KV Indoor Type	Each	43206.3	50983.38	60160.38	64239.05
1137	Vacuum Interrupter of 11KV Outdoor Type	Each	23693.8	27958.63	32991.18	35227.87
1138	Vacuum Interrupter of 11KV Indoor Type	Each	23693.8	27958.63	32991.18	35227.87
1139	Buzzer/ Hooter	Each	544.1	642.06	757.63	809.00
1140	T N C Switch	Each	540.8	638.11	752.98	804.02
	MRT Related Items					
1137	Fully Automatic energy meter test bench with 0.02 Class, 10 Position, for testing of 1 Ph & 3 Ph Energy meters with 5 Years maintenance, accreditation from NABL and Software Updation.	Set	16825350.0	19853913.00	23427617.34	25015930.38
1142	Instrument Transformer (CT-PT) test system	Set	8100475.0	9558560.50	11279101.39	12043786.23
1143	Transformer turn ratio meter and measurement test kit	Set	400842.5	472994.15	558133.10	595972.63
1144	Transformer Oil filtering machine- 500 GPH	Set	518475.0	611800.50	721924.59	770868.63
1145	Circuit Breaker Operational Analyzer	Set	667885.0	788104.30	929963.07	993011.42
1146	3 Ph Relay Test kit with all necessary accessories	Set	2438505.0	2877435.90	3395374.36	3625569.23
1147	Primary Injection Kit-1000 A with relay testing facility	Set	384675.0	453916.50	535621.47	571934.79
1148	HT Coil winding Machine its installation, testing & commissioning	Set	105925.0	124991.50	147489.97	157489.29
1149	LT Coil winding Machine its installation, testing & commissioning	Set	125437.5	148016.25	174659.18	186500.48
1150	03 (Three) Phase Transformer winding resistance meter	Set	434292.5	512465.15	604708.88	645706.09
1151	Digital Multimeter, 750V	Set	10927.0	12893.86	15214.75	16246.26
1152	Capacitance Tan Delta Test Set for Transformer, motor and Switchgear	Set	2769660.0	3268198.80	3856474.58	4117930.49
1153	Capacitance Tan Delta Test Set for cables	Set	2724502.5	3214912.95	3793597.28	4050790.32
1154	Vacuum Interrupter Tester	Set	975625.0	1151237.50	1358460.25	1450559.25
1155	Secondary Injection kit	Set	1951250.0	2302475.00	2716920.50	2901118.50



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1156	Digital HT Earth Tester	Set	99792.5	117755.15	138951.08	148371.49
1157	3 Ph Power Quality Analyser	Set	311085.0	367080.30	433154.75	462521.18
1158	05 KV insulation tester (Manual)	Set	99792.5	117755.15	138951.08	148371.49
1159	10 KV insulation tester (Motarized)	Set	262025.0	309189.50	364843.61	389578.77
1160	Digital Clamp meter; 20-1000A, 200 V DC	Each	21185.0	24998.30	29497.99	31497.86
1161	Digital Clamp meter; 20A (1mA-20A)	Each	8529.8	10065.11	11876.82	12682.03
1162	Discharge Rod (Make fibre)	Set	7693.5	9078.33	10712.43	11438.70
1163	Thermal Imaging Camera	Each	547465.0	646008.70		
1164	Single Phase & Three Phase Meter Automatic Testing Bench for 20 positions (0.02S Class RSM)	Each	16825350.0	19853913.00	23427617.34	25015930.38
	FRP FENCING					
1165	Fiber Reinforced Plastic (FRP) Fencing for 11/0.433KV, 63/100/200/500 KVA Substation	Each	89200.0	105256.00	124202.08	132622.56
	HTLS conductors					
1166	HTLS conductor equivalent to Panther	KM	1027447.0	1212387.46	1430617.20	1527608.20
1167	HTLS conductor equivalent to Wolf	KM	764269.0	901837.38	1064168.11	1136315.10
1168	HTLS conductor equivalent to Dog	KM	414768.6	489426.90	577523.74	616677.90
	AAAC Covered Conductors					
1169	33 kV AAAC covered Dog conductor (100 sq. mm)	KM	330508.5	390000.00	460200.00	491400.00
1170	33 kV AAAC covered Wolf Conductor (150 sq. mm)	KM	635593.2	750000.00	885000.00	945000.00
1171	11 kV AAAC covered Rabbit conductor (50 sq. mm)	KM	229500.0	270810.00	319555.80	341220.60
1172	11 kV AAAC covered Dog conductor (100 sq. mm)	KM	269319.2	317796.61	375000.00	400423.73
1173	End termination for covered conductor (33 KV/11KV)	Nos.	1144.1	1350.00	1593.00	1701.00
	Other Items					
1174	Non metallic tie	Each	482.6	569.47	671.97	717.53
1175	Earthing G.I.Strip (25x3)mm2	Nos.	898.3	1060.00	1250.80	1335.60
1176	33 KV CT (Ratio-800-400-200-100/1-1 A) 0.5 Accuracy for metering	Nos.	66694.9	78700.00	92866.00	99162.00
1177	11 KV CT (Ratio-800-400-200-100/1-1 A) 0.5 Accuracy for metering	Nos.	63135.6	74500.00	87910.00	93870.00



S. No.	Name of Materials/ Equipment	Unit	Proposed SOR Rate Jharkhand' 2024-25 Excl. GST	Proposed SOR Rate Jharkhand' 2024-25 Incl. GST	Turnkey Rates	
					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
1178	33 KV Tripping coil, Double cavity 30 v DC	Set	4250.0	5015.00	5917.70	6318.90
1179	33 KV Closing coil, 30 V DC	Nos.	2891.5	3412.00	4026.16	4299.12
1180	11 KV Tripping coil, Double cavity 30 v DC	Set	3950.0	4661.00	5499.98	5872.86
1181	11 KV Closing coil, 30 V DC	Nos.	2313.6	2730.00	3221.40	3439.80
1182	Numeric Relay (SLR 140 C)	Nos.	9703.4	11450.00	13511.00	14427.00
1183	11 KV interrupter	Nos.	24000.0	28320.00	33417.60	35683.20
1184	33 KV interrupter	Nos.	40576.3	47880.00	56498.40	60328.80
1185	IDMT relay (SLR 140C)	Nos.	22500.0	26550.00	31329.00	33453.00
1186	Master relay with Hand reset	Nos.	1098.6	1296.32	1529.66	1633.37
1187	TNC Switches	Nos.	932.2	1100.00	1298.00	1386.00
1188	Limit Switch for 11 KV	Nos.	1560.0	1840.80	2172.14	2319.41
1189	Limit Switch for 33 KV	Nos.	3813.6	4500.00	5310.00	5670.00
1190	11 KV Spring charge motor, 230 V AC	Nos.	10169.5	12000.00	14160.00	15120.00
1191	33 KV Spring charge motor, 230 V AC	Nos.	15254.2	18000.00	21240.00	22680.00
1192	DOG to DOG (C- wedge connector)	Nos.	2300.0	2714.00	3202.52	3419.64
1193	WOLF TO DOG (C- wedge connector)	Nos.	7800.0	9204.00	10860.72	11597.04
1194	DOG TO RABBIT (C- wedge connector)	Nos.	2161.0	2550.00	3009.00	3213.00
1195	WOLF TO WOLF (C- wedge connector)	Nos.	7900.0	9322.00	10999.96	11745.72
1196	PANTHER TO PANTHER (C- wedge connector)	Nos.	7800.0	9204.00	10860.72	11597.04
1197	DOG TO PANTHER (C- wedge connector)	Nos.	7800.0	9204.00	10860.72	11597.04
1198	Super Enamel Al Wire 0.71 mm	Kg.	352.5	415.91	490.78	524.05
1199	Super Enamel Al Wire 0.80 mm	Kg.	352.5	415.91	490.78	524.05
1200	Super Enamel Al Wire 0.90 mm	Kg.	352.5	415.91	490.78	524.05
1201	Super Enamel Al Wire 1.02 mm	Kg.	352.5	415.91	490.78	524.05
1202	Super Enamel Al Strip 6X40 mm	Kg.	352.5	415.91	490.78	524.05
1203	Super Enamel Al Strip 7X40 mm	Kg.	352.5	415.91	490.78	524.05
1204	Super Enamel Al Strip 633X40 mm	Kg.	352.5	415.91	490.78	524.05
1205	Electronically controlled Heating Chamber (3000X3000X3000) mm	Nos.	432470.0	510314.60	602171.23	642996.40
1206	1000 KVA, 11/0.433 KV copper wound, oil type Transformer, CRGO M4 Core ONAN; BIS Level 1	Nos.	1508474.6	1780000.00	2100400.00	2242800.00



S. No.	Name of Materials/ Equipment	Unit	Proposed SOR Rate Jharkhand' 2024-25 Excl. GST	Proposed SOR Rate Jharkhand' 2024-25 Incl. GST	Turnkey Rates	
					<5 Crore project Value (118% of final rate) with GST	>5 Crore Project Value (126% of final rate) with GST
1207	Trolley mounted Transformer (500 KVA), Copper wound, CRGO M4 Core ONAN; BIS Level 1, LT Distribution box suitable for 500 KVA transformer (800 A, isolator & 12 TP MCCB of 160 A), Load Break Switch 800 Amp and with all accessories	Nos.	1271186.4	1500000.00	1770000.00	1890000.00
1208	1 MVA CCC Dry Type Compact Sub Station	Nos.	2911254.2	3435280.00	4053630.40	4328452.80
1209	Electric Hoist (2.5 ton)	Nos.	127118.6	150000.00	177000.00	189000.00
1210	Hydraulic trolley 6000 Kg.	Nos.	30508.5	36000.00	42480.00	45360.00
1211	Connector pipe to pipe (3 bolt)	Nos.	381.4	450.00	531.00	567.00
1212	Connector Dog to Panther (3 bolt)	Nos.	366.1	432.00	509.76	544.32
1213	Connector Rabbit to Rabbit (3 bolt)	Nos.	375.0	442.50	522.15	557.55
1214	Incoming MCCB 4P, 400A, 50 KA for 200 KVA	Each	12000.0	14160.00	16708.80	17841.60
1215	Outgoing MCCB 3P, 200A, 36 KA for 200 KVA	Each	5400.0	6372.00	7518.96	8028.72
1216	Incoming MCCB 4P, 200A, 36 KA for 100 KVA	Each	6300.0	7434.00	8772.12	9366.84
1217	Outgoing MCCB 3P, 150A, 36 KA for 100 KVA	Each	4500.0	5310.00	6265.80	6690.60
1218	Incoming MCCB 4P, 100, 20 KA for 63 KVA	Each	2400.0	2832.00	3341.76	3568.32
1219	Outgoing MCCB 3P, 32A, 20 KA for 63 KVA	Each	2300.0	2714.00	3202.52	3419.64
1220	Incoming MCCB 4P, 63A, 20 KA for 25 KVA	Each	2800.0	3304.00	3898.72	4163.04
1221	Outgoing MCCB 3P, 32A, 20 KA for 25 KVA	Each	2300.0	2714.00	3202.52	3419.64
1222	100 sqmm ACSR Conductor with XLPE insulation for 11 Kv	Mtrs	395.5	466.74	550.75	588.09
1223	Anchoring clamp for 33 & 11 Kv	Each	1203.3	1419.89	1675.47	1789.07
1224	Non metallic tie	Each	482.6	569.47	671.97	717.53



Unit Rate Summary Sheet for JBVNL Cost Data

A total of 62 cost data estimates have been prepared based on different voltage level and equipment used.

The estimates are indicative in nature and are likely to change if any item in an estimate is replaced / added / deleted.

UNIT RATE SUMMARY

2. Unit rate summary sheet (JBVNL COST DATA BOOK 2024-25)

S.No.	Work Particular	Per Unit Cost	
		in INR	in INR Lacs
1	1 no. 1 phase Service Connection (0 to 4 KW)	5,082	0.05
2	1 no. 3 phase Service Connection (5 to 10 KW)	11,798	0.12
3	1 no. 3 phase Service Connection (10 to 30 KW)	21,692	0.22
4	1 no. 3 phase Service Connection (30 to 50 KW)	39,805	0.40
5	1 no. 3 phase Service Connection (50 to 85 KW)	47,019	0.47
6	1 no. 3 phase HT Service Connection (85 to 200 KVA)	1,60,211	1.60
7	1 no. 1 phase U/G Service Connection (12 Flats Schemes)	73,595	0.74
8	1 no. 3 phase Service Connection u/g 5 to 10 KW	34,628	0.35
9	1 no. 3 phase Service Connection u/g 10 to 30 KW	45,667	0.46
10	1 no. 3 phase Service Connection u/g 30 to 50 KW	82,764	0.83
11	1 no. 3 phase Service Connection u/g 50 to 85 KW	1,12,842	1.13
12	1 no. 3 phase HT Service Connection u/g 85 to 200 KVA	1,84,284	1.84
13	New 33/11 KV PSS with 1x10 MVA Power T/F with two 33 KV incoming and Six 11 KV outgoing	in Normal Soil	2,57,76,013
		in Hard Soil	2,66,17,027
14	New 33/11 KV PSS with 2x5 MVA Power T/F with One 33 KV incoming, one 33 KV outgoing and four 11 KV outgoing	in Normal Soil	2,90,56,455
		in Hard Soil	2,99,40,472
15	1 KM 33KV Overhead DP suspension line with 232 sq. mm. Panther Conductor on 13-meter 60kg/mtr Rail pole	in Normal Soil	34,21,649
		in Hard Soil	34,62,581
16	1 KM 33KV Overhead Line on 13 mtr Rail Pole with porcelene insulator & Panther Conductor with 50 Mtr Average Span with 1 Cut Point DP	in Normal Soil	26,89,286
		in Hard Soil	27,05,183
17	1 KM 33KV Overhead Line on 13 mtr Rail Pole with porcelene insulator & Wolf Conductor with 50 Mtr Average Span with 1 Cut Point DP	in Normal Soil	25,76,222
		in Hard Soil	25,92,120
18	1 KM 33KV Overhead Line on 13 mtr Rail Pole with porcelene insulator & Dog Conductor With 50 Mtr Average Span with 1 Cut Point DP	in Normal Soil	22,97,794
		in Hard Soil	23,13,692
19	1 KM 33KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 100 sq mm Covered Conductor With 40 Mtr Average Span with 1 Cut Point DP (Center) and 2 Nos. DP (Starting & End)	in Normal Soil	6915934
		in Hard Soil	6936496
20	1 KM 33kv HT Trenchless Double circuit cable laying 3 core, Armoured 400 sq mm with HDPE pipe	in Normal Soil	1,38,41,110
		in Hard Soil	1,54,04,210
21	1 KM 33kv HT Trenchless Double circuit cable laying 3 core, Armoured 300 sq mm with HDPE pipe	in Normal Soil	1,27,20,081
		in Hard Soil	1,42,83,181
22	1 KM 33kv HT Trenchless Double circuit cable laying 3 core, Armoured 185 sq mm With HDPE pipe	in Normal Soil	1,08,94,044
		in Hard Soil	1,21,71,410
23	1 KM 33kv HT Trenchless Single circuit cable laying 3 core, Armoured 400 sq mm with HDPE pipe	in Normal Soil	75,56,201
		in Hard Soil	83,38,569
24		in Normal Soil	69,45,229



S.No.	Work Particular		Per Unit Cost	
			in INR	in INR Lacs
	1 KM 33kV HT Trenchless Single circuit cable laying 3 core, Armoured 300 sq mm with HDPE pipe	in Hard Soil	77,27,597	77.28
25	1 KM 33kV HT Trenchless Single circuit cable laying 3 core, Armoured 185 sq mm with HDPE pipe	in Normal Soil	60,15,655	60.15
		in Hard Soil	66,55,156	66.55
26	1 KM 33kV HT Double Circuit cable laying using Trench 3 core, Armoured 185 sq mm	in Normal Soil	80,72,997	80.73
		in Hard Soil	81,25,961	81.26
27	1 KM 33kV HT Double Circuit cable laying using Trench 3 core, Armoured 300 sq mm	in Normal Soil	84,35,875	84.36
		in Hard Soil	84,88,838	114.02
28	1 KM S&R of 33KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 150 sq mm (Wolf) Conductor	in Normal Soil	20,69,693	20.70
		in Hard Soil	20,87,046	20.87
29	1 KM S&R of 33KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 100 sq mm (Dog) Conductor	in Normal Soil	17,52,012	17.52
		in Hard Soil	17,69,365	17.69
30	1 KM 11KV Overhead Line on 9 mtr PSC Pole with Porcelene insulators & 100 sq mm (Dog) Conductor With 50 Mtr Average Span with 1 Cut Point DP	in Normal Soil	9,57,181	9.57
		in Hard Soil	9,69,894	9.69
31	1 KM 11KV Overhead Line on 9 mtr PSC Pole with Porcelene insulators & 80 sq mm (Racoon) Conductor with 50 Mtr Average Span with 1 Cut Point DP	in Normal Soil	7,63,824	7.64
		in Hard Soil	7,76,537	7.77
32	1 KM 11KV Overhead Line on 9 mtr PSC Pole with Porcelene insulators & 50 sq mm (Rabbit) Conductor with 50 Mtr Average Span with 1 Cut Point DP	in Normal Soil	7,15,285	7.15
		in Hard Soil	7,27,998	7.28
33	1 KM 11KV Overhead Line on 8 mtr PSC Pole with Porcelene insulators & 34 sq mm (weasel) Conductor with 50 Mtr Average Span with 1 Cut Point DP	in Normal Soil	5,41,856	5.42
		in Hard Soil	5,54,569	5.55
34	1 KM 11KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 50 sq mm Covered Conductor With 40 Mtr Average Span with 1 Cut Point DP (Center) and 2 Nos. DP (Starting & End)	in Normal Soil	45,25,657	45.26
		in Hard Soil	45,43,119	45.43
35	1 KM 11KV Overhead Line on 9 mtr PSC Pole 11 KV XLPE HT AB Cable 3Cx95mm ² +80mm ² bare messenger	in Normal Soil	11,50,453	11.50
		in Hard Soil	11,63,008	11.63
36	1 KM 11KV Overhead Line on 9 mtr PSC Pole 11 KV XLPE HT AB Cable 3Cx50mm ² +70mm ² bare messenger	in Normal Soil	9,74,157	9.74
		in Hard Soil	9,86,712	9.86
37	1 KM 11KV Overhead Line on 8 mtr PSC Pole 11 KV XLPE HT AB Cable 3Cx50mm ² +70mm ² bare messenger	in Normal Soil	9,17,559	9.17
		in Hard Soil	9,30,114	9.30
38	1 KM 11kV HT Trenchless Double circuit cable laying 3 core, Armoured 400 sq mm with HDPE pipe	in Normal Soil	1,11,60,221	111.60
		in Hard Soil	1,27,23,321	127.23
39		in Normal Soil	1,06,05,820	106.05



S.No.	Work Particular		Per Unit Cost	
			in INR	in INR Lacs
	1 KM 11kV HT Tenchless Double circuit cable laying 3 core, Armoured 300 sq mm with HDPE pipe	in Hard Soil	1,21,68,921	121.68
40	1 KM 11kV HT Tenchless Double circuit cable laying 3 core, Armoured 185 sq mm with HDPE pipe	in Normal Soil	84,48,938	84.48
		in Hard Soil	97,26,304	97.26
41	1 KM 11kV HT Tenchless single circuit cable laying 3 core, Armoured 400 sq mm with HDPE pipe	in Normal Soil	61,10,981	61.10
		in Hard Soil	68,93,349	68.93
42	1 KM 11kV HT Tenchless single circuit cable laying 3 core, Armoured 300 sq mm with HDPE pipe	in Normal Soil	58,08,842	58.08
		in Hard Soil	65,91,210	65.91
43	1 KM 11kV HT Tenchless single circuit cable laying 3 core, Armoured 185 sq mm with HDPE pipe	in Normal Soil	46,56,019	46.56
		in Hard Soil	52,95,520	52.95
44	1 KM 11kV HT Double Circuit cable laying using Trench 3 core, Armoured 300 sq mm	in Normal Soil	63,78,627	63.78
		in Hard Soil	64,31,590	64.32
45	1 KM 11kV HT Double Circuit cable laying using Trench 3 core, Armoured 185 sq mm	in Normal Soil	47,95,658	47.95
		in Hard Soil	48,48,621	48.48
46	1 KM S&R of 11KV Overhead Line on 9 mtr PSC Pole with Polymer insulators & 100 sq mm (Dog) Conductor	in Normal Soil	864885	8.64
		in Hard Soil	877362	8.77
47	1 KM S&R of 11KV Overhead Line on 9 mtr PSC Pole with Polymer insulators & 50 sq mm (Rabbit) Conductor	in Normal Soil	5,91,392	5.91
		in Hard Soil	6,03,869	6.03
48	1 KM LT Line of 55 sq mm (Rabbit) conductor with 50 Mtr Average span	in Normal Soil	5,92,646	5.93
		in Hard Soil	6,00,788	6.01
49	1 KM LT Line of 34 sq mm (Weasel) conductor with 50 Mtr Average span	in Normal Soil	4,38,666	4.39
		in Hard Soil	4,46,807	4.47
50	1 KM LT Overhead Line on 8 mtr PSC Pole XLPE AB Cable 3Cx120+1Cx70+1Cx16 mm ²	in Normal Soil	9,03,918	9.04
		in Hard Soil	9,16,953	9.17
51	1 KM LT Overhead Line on 8 mtr PSC Pole XLPE AB Cable 3Cx95+1Cx70+1Cx16	in Normal Soil	8,05,534	8.06
		in Hard Soil	8,18,569	8.19
52	1 KM LT Overhead Line on 8 mtr PSC Pole XLPE AB Cable 3Cx50 sqmm + 1x35 sqmm+1x16 sq mm	in Normal Soil	6,64,571	6.65
		in Hard Soil	6,77,606	6.78
53	11/.4 KV DSS With 25 KVA Distribution Transformer	in Normal Soil	3,16,930	3.17
		in Hard Soil	3,19,433	3.19
54	11/.4 KV DSS With 63 KVA Distribution Transformer	in Normal Soil	4,04,328	4.04
		in Hard Soil	4,06,831	4.06
55	11/.4 KV DSS With 100 KVA Distribution Transformer	in Normal Soil	4,65,833	4.66
		in Hard Soil	4,68,337	4.68
56	11/.4 KV DSS With 200 KVA Distribution Transformer	in Normal Soil	6,51,186	6.51
		in Hard Soil	6,53,690	6.53
57	11/.4 KV DSS With 315 KVA Distribution Transformer	in Normal Soil	10,34,353	10.34
		in Hard Soil	10,36,857	10.37
58	11/.4 KV DSS With 500 KVA Distribution Transformer	in Normal Soil	14,20,505	14.21
		in Hard Soil	14,40,160	14.40
59	Strengthening & Renovation 11/.433 KV DSS With 63 KVA Distribution Transformer	in Normal Soil	2,77,263	2.77
		in Hard Soil	2,77,782	2.78
60		in Normal Soil	3,21,520	3.21



S.No.	Work Particular		Per Unit Cost	
			in INR	in INR Lacs
	Strengthening & Renovation 11/.433 KV DSS With 100 KVA Distribution Transformer	in Hard Soil	3,22,039	3.22
61	Strengthening & Renovation 11/.433 KV DSS With 200 KVA Distribution Transformer	in Normal Soil	4,78,710	4.79
		in Hard Soil	4,79,229	4.79
62	Strengthening & Renovation 11/.433 KV DSS With 500 KVA Distribution Transformer	in Normal Soil	11,85,052	11.85
		in Hard Soil	11,85,571	11.85





SERVICE CONNECTIONS



3. Single phase Service connection for Load up to 4 kW

S. No	Description of material	Unit	Qty	Rate (in INR) (Incl. GST)	Amt. (Rs.)
1	GI service pipe 25 mm diameter 3 mtr length	Nos.	1	444	444
2	Service main anchor clamp for proper support of service cable	Pair	1	87	87
3	Hook Bolt	Nos.	2	20	40
4	G.I. wire SWG No. 8	Kg	4	94	375
5	Adhesive Insulation Tape	Nos.	1	315	315
6	Link clip	Pkt.	1	20	20
7	Teak wood Board	Nos.	1	30	30
8	Single Phase Electronic Meter, two wire, 5-30 Amp. class 1.0 accuracy with Box	Nos.	1	1,737	1,737
9	LT PVC Cable 2 Core 4 mm ² (armoured)	Mtr	35	35	1,219
(A) Total Material cost					4,267
(B) Contingency @ 3% of (A)					128
(C) Transportation Charge @ 4% of (A)					171
(D) Labour Charges (Excl. GST)					375
(E) Tools and Plants 2% of (A)					85
(F) Supervision Charge @ 15% of (D)					56
Grand total					5,082



4. Three phase Service connection for Load of 5 to 10 KW

Sl. No.	Description of material	Unit	Qty	Rate (in INR) (Incl. GST)	Amt. (Rs.)
1	GI service pipe 40 mm diameter 3 mtr length	Nos.	1	524	524
2	Service main anchor clamp for proper support of service cable	Pair	1	87	87
3	Hook Bolt	Nos.	2	20	40
4	G.I. wire SWG No. 8	Kg	4	94	375
5	Adhesive Insulation Tape	Roll	1	315	315
6	Link clip	Pkt	1	30	30
7	Teak wood Board	Nos.	1	40	40
8	Three Phase 4 - wire AC static whole current meter, Electronic energy meter with box (10-60)Amp	Nos.	1	6,498	6,498
9	PVC Three Phase service cable 4 core 6 mm2 (Armoured)	Mtr	35	61	2,133
(A) Total Material cost					10,042
(B) Contingency @ 3% of (A)					301
(C) Transportation Charge @ 4% of (A)					402
(D) Labour Charges (Excl. GST)					741
(E) Tools and Plants 2% of (A)					201
(F) Supervision Charge @ 15% of (D)					111
Grand Total					11,798



5. LT Three phase Service connection for Load of 10 to 30 KW

Sl. No.	Description of material	Unit	Qty	Rate (in INR) (Incl. GST)	Amt. (Rs.)
1	GI service pipe 40 mm diameter 3 mtr length	Nos.	1	524	524
2	Service main anchor clamp for proper support of service cable	Pair	1	87	87
3	Hook Bolt	Nos.	2	20	40
4	G.I. wire SWG No. 8	Kg	4	94	375
5	Adhesive Insulation Tape	Roll	1	315	315
6	Link clip	Pkt	1	40	40
7	Teak wood Board	Nos.	1	40	40
8	Three Phase 4 - wire AC static whole current meter, Electronic energy meter with box (10-60)Amp	Nos.	1	6,498	6,498
9	LT XLPE Cable 3.5 Core 25mm ² (Armoured)	Mtr	35	320	11,200
(A) Total Material cost					19,119
(B) Contingency @ 3% of (A)					574
(C) Transportation Charge @ 4% of (A)					765
(D) Labour Charges (Excl. GST)					741
(E) Tools and Plants 2% of (A)					382
(F) Supervision Charge @ 15% of (D)					111
Grand Total					21,692



6. LT Three phase Service connection for Load of 30 to 50 KW

Sl. No.	Description of material	Unit	Qty	Rate (in INR) (Incl. GST)	Amt. (Rs.)
1	GI Service pipe 60mm diameter 3 mtr length	Nos.	1	636	636
2	Service main anchor clamp for proper support of service cable	Pair	1	87	87
3	Hook Bolt	Nos.	2	20	40
4	G.I. wire SWG No. 8	Kg	4	94	375
5	Adhesive Insulation Tape	Roll	1	315	315
6	Link clip	Pkt	1	40	40
8	LTCT Electronic Meter (200/150/100/5) 3 Phase 4 Wire with meter box, Class 0.5s accuracy	Nos.	1	17,738	17,738
9	LT XLPE Cable 3.5 Core 50mm ² (Armoured)	Mtr	35	409	14,320
(A) Total Material cost					33,551
(B) Contingency @ 3% of (A)					1,007
(C) Transportation Charge @ 4% of (A)					1,342
(D) Labour Charges (Excl. GST)					2,813
(E) Tools and Plants 2% of (A)					671
(F) Supervision Charge @ 15% of (D)					422
Grand Total					39,805



7. LT Three phase Service connection for Load of 50 to 85 KW

Sl. No.	Description of material	Unit	Qty	Rate (in INR) (Incl. GST)	Amt. (Rs.)
1	GI Service pipe 60mm diameter 3 mtr length	Nos.	1	636	636
2	Service main anchor clamp for proper support of service cable	Pair	1	87	87
3	Hook Bolt	Nos.	2	20	40
4	G.I. wire SWG No. 8	Kg	4	94	375
5	Adhesive Insulation Tape	Roll	1	315	315
6	Link clip	Pkt	1	40	40
8	LTCT Electronic Meter (200/150/100/5) 3 Phase 4 Wire with meter box, Class 0.5s accuracy	Nos.	1	17,738	17,738
9	LT XLPE Cable 3.5 core 95 mm ² (Armoured)	Mtr	35	598	20,938
(A) Total Material cost					40,169
(B) Contingency @ 3% of (A)					1,205
(C) Transportation Charge @ 4% of (A)					1,607
(D) Labour Charges (Excl. GST)					2,813
(E) Tools and Plants 2% of (A)					803
(F) Supervision Charge @ 15% of (D)					422
Grand Total					47,019



8. HT Three phase Service connection for Load of 85 to 200 KVA

Sl. No.	Description of material	Unit	Qty	Rate (in INR) (Incl. GST)	Amt. (Rs.)
1	11 KV Metering Cubicle with PT ratio 11KV/ $\sqrt{3}$ /110V and CT ratio 20/5A, 30/5A, 60/5A, 100/5A, 200/5A, 400/5A, 0.5 accuracy class for both	Nos.	1	79,944	79,944
2	Angle 50 * 50 mm & Saddle for Cable support	Nos.	1	538	538
3	G.I. wire SWG No. 8	Kg	4	94	375
4	High Temperature Tape	Roll	2	884	1,768
5	Link clip	Pkt	1	40	40
6	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.5S (-/110V & -/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	Nos.	1	16,800	16,800
7	2.5 mm ² copper 10 core control cable (Armoured)	Mtr	30	190	9,558
8	11 KV XLPE Cable 3 Core 95mm ² (Armoured)	Mtr	35	886	31,021
(A) Total Material cost					1,40,044
(B) Contingency @ 3% of (A)					4,086
(C) Transportation Charge @ 4% of (A)					5,447
(D) Labour Charges (Excl. GST)					6,577
(E) Tools and Plants 2% of (A)					2,724
(F) Supervision Charge @ 15% of (D)					987
Grand Total					1,60,211



9. Single phase Service connection with UG Cable (Flat schemes having 12 flats)

S. No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Single Phase Electronic Meter,two wire, 5-30 Amp. class 1.0 accuracy with Box	nos	12	1,737	20,844
2	LT XLPE Cable 3.5 Core 50mm2 (Armoured)	mtr	50	409	20,456
3	SMDB(1 in, 3 out) with housing 5 nos 20 Amp SPN MCB,	nos	1	2,488	2,488
4	Aluminium Lugs 50 sq. mm	nos	8	11.4	91
6	Meter Box with bus bar box having seals	nos	1	9,652.6	9,653
A	Sub Total (in INR)				53,532
B	Sundries Charges including nut bolts, pvc pipe etc. (in INR)	@		3%	1,606
C	Contingency Charges (in INR)	@		3%	1,606
D	Store Charges (in INR)	@		3%	1,606
E	Transportation Cost (in INR)	@		4%	2,141
F	T & P Cost (in INR)	@		2%	1,071
G	Overhead Cost (in INR)	@		10%	5,353
H	Excavation and Trench laying charges		LS		2,175
I	Labour Charges (Excl. GST)		LS	375	4,505
0	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)				73,595



10. LT 1 no. 3 phase U/G Service Connection 5-10 KW

S.No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Three Phase 4 - wire AC static whole current meter, electronic energy meter with box (10-60) Amp	nos	1	6,498	6,498
2	LT PVC Cable 3.5 Core 10 mm ² (Armoured)	mtr	35	68	2,391
3	TPN Distribution Board 12-way, 50 Amp TPN MCB,	nos	1	16,458	16,458
4	Aluminium Lugs 10 Sq. mm.	nos	8	2.8	23
A	Sub Total (in INR)				25,370
B	Sundries Charges including nut bolts, paint etc. (in INR)		@	3%	761
C	Contingencies Charges (in INR)		@	3%	761
D	Store Charges (in INR)		@	3%	761
E	Transportation Cost (in INR)		@	4%	1,015
F	T & P Cost (in INR)		@	2%	507
G	Overhead Cost (in INR)		@	10%	2,537
H	Excavation and Trench laying charges		LS		2,175
I	Labour Charges (Excl. GST)		LS	741	741
J	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)				34,628



11. LT 1 no. 3 phase U/G Service Connection 10 to 30 KW

S. No	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Three Phase 4 - wire AC static whole current meter, electronic energy meter with box (10-60) Amp	Nos	1	6,498	6,498
2	LT XLPE Cable 3.5 Core 25mm ² (Armoured)	Mtr	35	320	11,200
3	TPN Distribution Board 12-way, 50 Amp TPN MCB,	Nos	1	16,458	16,458
4	Aluminium Lugs 25 sq. mm	Nos	8	5.7	46
A	Sub Total (in INR)				34,202
B	Sundries Charges including nut bolts, paint etc. (in INR)	@		3%	1,026
C	Contingencies Charges (in INR)	@		3%	1,026
D	Store Charges (in INR)	@		3%	1,026
E	Transportation Cost (in INR)	@		4%	1,368
F	T & P Cost (in INR)	@		2%	684
G	Overhead Cost (in INR)	@		10%	3,420
H	Excavation and Trench laying charges	LS			2,175
I	Labour Charges (Excl. GST)	LS		741	741
J	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)				45,668



12. LT 1 no. 3 phase U/G Service Connection 30 KW to 50 KW

S. No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	LTCT Electronic Meter (200/150/100/5) 3 Phase 4 Wire with meter box, Class 0.5s accuracy	Nos	1	17,738	17,738
2	LT XLPE Cable 3.5 Core 50mm ² (Armoured)	Mtr	35	409	14,320
3	TPN Distribution Board 12-way, 100 Amp TPN MCB,	Nos	1	29,992	29,992
5	Aluminium Lugs 95 sq. mm	Nos	8	21.4	171
A	Sub Total (in INR)				62,221
B	Sundries Charges including nut bolts, paint etc. (in INR)	@		3%	1,867
C	Contingencies Charges (in INR)	@		3%	1,867
D	Store Charges (in INR)	@		3%	1,867
E	Transportation Cost (in INR)	@		4%	2,489
F	T & P Cost (in INR)	@		2%	1,244
G	Overhead Cost (in INR)	@		10%	6,222
H	Excavation and Trench laying charges	LS			2,175
I	Labour Charges (Excl. GST)	LS		2,813	2,813
J	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)				82,764



13. LT 1 no. 3 phase U/G Service Connection 50 KW to 85 KW

S. No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	LTCT Electronic Meter (200/150/100/5) 3 Phase 4 Wire with meter box, Class 0.5s accuracy	nos	1	17,738	17,738
2	LT XLPE Cable 3.5 core 95 mm ² (Armoured)	mtr	35	598	20,938
3	TPN Distribution Board 12 way, 150 Amp TPN MCB,	nos	1	47,436	47,436
4	Alluminium Lugs 95 sq. mm	nos	8	21.4	171
A	Sub Total (in INR)				86,283
B	Sundries Charges including nut bolts, paint etc. (in INR)	@		3%	2,589
C	Contingency Charges (in INR)	@		3%	2,589
D	Store Charges (in INR)	@		3%	2,589
E	Transportation Cost (in INR)	@		4%	3,451
F	T & P Cost (in INR)	@		2%	1,726
G	Overhead Cost (in INR)	@		10%	8,628
	Excavation and Trench laying charges	LS			2,175
H	Labour Charges (Excl. GST)	LS		2,813	2,813
J	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)				1,12,842



14. HT 1 no. 3 phase U/G Service Connection 85 to 200 KVA

S. No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.5S (-/110V & -/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	nos	1	16,800	16,800
2	11 KV XLPE Cable 3 Core 95mm ² (Armoured)	mtr	35	886	31,021
2	High Temperature Tape	Roll	2	884	1,768
3	2.5 mm ² copper 10 core control cable (Armoured)	mtr	30	190	9,558
4	11 KV Metering Cubicle with PT ratio 11KV/√3/110V and CT ratio 20/5A, 30/5A, 60/5A, 100/5A, 200/5A, 400/5A, 0.5 accuracy class for both	nos	1	79,944	79,944
5	Alluminium Lugs 120 sq. mm	nos	2	30.0	60
A	Sub Total (in INR)				139151
B	Sundries Charges including nut bolts, paint etc. (in INR)		@	3%	4,059
C	Contingency Charges (in INR)		@	3%	4,059
D	Store Charges (in INR)		@	3%	4,059
E	Transportation Cost (in INR)		@	4%	5,412
F	T & P Cost (in INR)		@	2%	2,706
G	Overhead Cost (in INR)		@	10%	13,529
H	Excavation and Trench laying charges		LS		3,769
I	Labour Charges (Excl. GST)		LS	6,577	6,577
J	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)				1,84,284





LABOUR COSTING



15. Service connection labour

Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
				Normal Soil	Hard Soil	
A	B	C	D	F = E*(1+E)	G = F*1.5	H
Installation of energy meter						
1	Installation of Single-phase energy Meter	Per Service connection	375.42	375.42	375.42	Estimation based on no. of connections done in a day and per day labour cost involved.
2	Installation of Three phase Four wire whole current energy Meter	Per Service connection	740.84	740.84	740.84	
3	Installation of LTCT whole current energy Meter	Per Service connection	2,813.28	2,813.28	2,813.28	
4	Installation of HT Trivector energy Meter	Per Service connection	6,577.16	6,577.16	6,577.16	
Shifting /Replacement of energy meter						
5	Shifting / Replacement of Single-phase energy Meter	Per Service connection	680.84	680.84	680.84	Estimation based on no. of connections done in a day and per day labour cost involved.
6	Shifting / Replacement of Three phase Four wire whole current energy Meter	Per Service connection	1,341.67	1,341.67	1,341.67	
7	Shifting / Replacement of LTCT whole current energy Meter	Per Service connection	4,853.56	4,853.56	4,853.56	
8	Shifting / Replacement of HT Trivector energy Meter	Per Service connection	11,254.32	11,254.32	11,254.32	
Trench and Cable laying charges for LT cables						
9	Excavation for LT cable laying 600 mm deep x 500 x1000 mm long trench	RMT	45.55	45.55	50.20	Ref: Building Construction Department (Govt.



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
				Normal Soil	Hard Soil	
10	Filling in foundation trenches and Plenth in layers not exceeding 150 mm thick well watered, rammed fully compacted and fine dressed with earth obtained from excavation of foundation trenches within a lead of 50 M and lift of 1.5 M all complete as per building specification and direction of E/I	m ³	55.28	55.28	55.28	of Jharkhand) w.e.f. 1st July 2022
Trench and Cable laying charges for HT cables						
11	Excavation for 33KV/11KV cable laying 1200 mm deep x 500x1000 mm long trench	RMT	91.09	91.09	100.40	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 1st July 2022
12	Filling in foundation trenches and Plenth in layers not exceeding 150 mm thick well watered, rammed fully compacted and fine dressed with earth obtained from excavation of foundation trenches within a lead of 50 M and lift of 1.5 M all complete as per building specification and direction of E/I	m ³	55.28	55.28	55.28	
Fuse Call Charges						
13	Labour Charges per fuse call attended by 3 teams per subdivision	per fuse call	132.23	132.23	132.23	Estimation based on no. of calls in a day and per day labour wages



16. 33 kV labour line

Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
1	Survey and investigation including pegging	Per route Km.	2,214.74	0.00%	2,214.74	2,214.74	
2	Pole pit excavation (for 52/60 kg 13 mtrs. Rail Pole)	Per Pit	557.88	0.00%	557.88	836.83	
3	Erection of Pole (Rail Pole 52 kg 13 mtrs.)						
	(a) Single pole with base plate.	Per Pole	1,844.74	0.00%	1,844.74	1,844.74	
	(b) Double pole with base plate.	Per DP Complete	2,872.23	0.00%	2,872.23	2,872.23	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	4,146.84	0.00%	4,146.84	4,146.84	
	(d) Four pole with base plate.	Per FP Complete	7,378.97	0.00%	7,378.97	7,378.97	
4	Erection of Pole (Rail Pole 60 kg 13 mtrs.)						
	(a) Single pole with base plate.	Per Pole	2,128.55	0.00%	2,128.55	2,128.55	
	(b) Double pole with base plate.	Per DP Complete	3,314.13	0.00%	3,314.13	3,314.13	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	4,784.83	0.00%	4,784.83	4,784.83	
	(d) Four pole with base plate	Per FP Complete	8,514.19	0.00%	8,514.19	8,514.19	
5	Pole pit excavation (RS Joist Pole 9.3 meter (175x85mm) 19.6 kgs per mtr)	Per Pit	399.09	0.00%	399.09	598.64	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
6	Erection of Pole (RS Joist Pole 9.3 meter (175x85mm) 19.6 kgs per mtr)						
	(a) Single pole with base plate.	Per Pole	497.42	0.00%	497.42	497.42	
	(b) Double pole with base plate.	Per DP Complete	994.86	0.00%	994.86	994.86	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	1,492.28	0.00%	1,492.28	1,492.28	
	(d) Four pole with base plate	Per FP Complete	1,989.70	0.00%	1,989.70	1,989.70	
7	Pole pit excavation (RS Joist Pole 9 meter (116x100mm) 23 kgs per mtr)	Per Pit	386.23	0.00%	386.23	579.34	
8	Erection of Pole (RS Joist Pole 9 meter (116x100mm) 23 kgs per mtr)						
	(a) Single pole with base plate.	Per Pole	564.88	0.00%	564.88	564.88	
	(b) Double pole with base plate.	Per DP Complete	1,129.77	0.00%	1,129.77	1,129.77	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	1,694.65	0.00%	1,694.65	1,694.65	
	(d) Four pole with base plate	Per FP Complete	2,259.54	0.00%	2,259.54	2,259.54	
9	Pole pit excavation (H Beam Pole 11 meters (152x152mm) 37.1 kgs per mtr)	Per Pit	472.05	0.00%	472.05	708.07	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
10	Erection of Pole (H Beam Pole 11 meters (152x152mm) 37.1 kgs per mtr)						
	(a) Single pole with base plate.	Per Pole	1,113.66	0.00%	1,113.66	1,113.66	
	(b) Double pole with base plate.	Per DP Complete	2,227.33	0.00%	2,227.33	2,227.33	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	3,341.01	0.00%	3,341.01	3,341.01	
	(d) Four pole with base plate	Per FP Complete	4,454.67	0.00%	4,454.67	4,454.67	
11	Concreting and top muffing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 20 cft	2,123.43		2,123.43	2,123.43	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
		Per 40 cft	4,246.86		4,246.86	4,246.86	
		Per 60 cft	6,370.28		6,370.28	6,370.28	
		Per 80 cft	8,493.71		8,493.71	8,493.71	
12	Stay pit excavation	Per Pit	359.30	0.00%	359.30	538.95	
13	Erection of stay with stone /RCC stay plate and stay binding and fitting of stay clamps etc. and filling with earth and proper	Per Stay	767.06	0.00%	767.06	767.06	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	ramming thereof complete						
14	Concreting of stay with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per Stay (7.5 cft)	796.29		796.29	796.29	"Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
15	Fixing & fitting of V-cross arm	Nos.	182.85	0.00%	182.85	182.85	
16	Fixing & fitting of line DP Channel	Set	409.04	0.00%	409.04	409.04	
17	Fixing & fitting of cross bracing in DP	Per cross bracing	278.94	0.00%	278.94	278.94	
18	Fitting of all brackets (including top bracket and guard bracket) on						
	a) Single pole	Per Pole	265.32	0.00%	265.32	265.32	
	b) Double pole	Per DP	795.93	0.00%	795.93	795.93	
	c) Tri pole	Per TP	1,061.25	0.00%	1,061.25	1,061.25	
	d) Four pole	Per FP	1,591.87	0.00%	1,591.87	1,591.87	
19	a) Fitting of pin insulator on bracket on single pole	Per Pole	110.74	0.00%	110.74	110.74	
	b) Fitting of 70 KN disc insulator with hardware fitting including pin	Per six sets	376.51	0.00%	376.51	376.51	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	insulator where necessary (for piloting, etc)						
20	Laying out and sagging of Conductor Including mid jointing wherever necessary for the three phases						
	(i) For Dog (100 sq.mm.) Conductor	Per route Km.	16,069.11	0.00%	16,069.11	16,069.11	
	(ii) For Wolf (150 sq.mm.) Conductor	Per route Km.	29,650.37	0.00%	29,650.37	29,650.37	
	(iii) For Panther (232 sq.mm.) Conductor	Per route Km.	39,764.94	0.00%	39,764.94	39,764.94	
21	Laying out and sagging of Dog conductor at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	24,103.66	0.00%	24,103.66	24,103.66	
	Laying out and sagging of Wolf conductor at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	44,475.55	0.00%	44,475.55	44,475.55	
	Laying out and sagging of Panther conductor at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	59,647.42	0.00%	59,647.42	59,647.42	
22	Laying out and sagging of Dog conductor at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	32,138.22	0.00%	32,138.22	32,138.22	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	Laying out and sagging of Wolf conductor at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	59,300.74	0.00%	59,300.74	59,300.74	
	Laying out and sagging of Panther conductor at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	79,529.89	0.00%	79,529.89	79,529.89	
23	Pin Binding as per standard practice or as per direction of Engineer I/C	Per Pole	110.74	0.00%	110.74	110.74	
24	Jumpering connection of conductors including earth wires at all cut points / D.P. as per direction of the Engineer I/C	Per DP	207.62	0.00%	207.62	207.62	
25	Earthing including fixing of GI Pipe and wire as per direction of Engineer I/C (GI Pipe and wire to be supplied by Nigam)	Per earthing	888.19	0.00%	888.19	1,332.28	
26	Laying out and sagging of GI wire (7/12 SWG) including fitting of earth clamp and in mid span jointing wherever necessary	Per route Km.	4,216.07	0.00%	4,216.07	4,216.07	
27	Fixing and fitting of danger board on pole near Road corner	Per Board	57.66	0.00%	57.66	57.66	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	wherever necessary as per direction of E/I						
28	Guarding of power line as per approved practices	Per Running Meter	73.83	0.00%	73.83	73.83	
29	Cutting of Rails	Per cutting	184.55	0.00%	184.55	184.55	
30	Erection of Rail pole beyond specified length including excavation of extra pole pit depth for special locations.	Rft. Of Pole length	46.14	0.00%	46.14	69.21	
31	Jointing of rail pieces by welding by jointing fishplate's of M.S. channel and welding.	Per inch of welding	57.66	0.00%	57.66	57.66	
32	Drilling of hole in rail pole	Per Hole	57.66	0.00%	57.66	57.66	
33	Drilling of hole in V Cross / Clamp/ angle/ flat etc	per Hole	16.80	0.00%	16.80	16.80	
34	Arc Welding of Flat / angle / channel etc	Per inch of welding	57.66	0.00%	57.66	57.66	
35	Fitting of MS angle on V cross arm with rail pole as tie	per V cross arm	74.98	0.00%	74.98	74.98	
36	Binding of conductor	Per Pole	219.17	0.00%	219.17	219.17	
37	Fitting of extra clamps	Each	74.98	0.00%	74.98	74.98	
38	Installation of 33KV AB Switch	Each Set	2,733.80	0.00%	2,733.80	2,733.80	
39	Tree branches trimming (for number of trees upto 10 nos. in one km)	LS / per km	576.76	0.00%	576.76	576.76	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
40	Tree branches trimming (for number of trees more than 10 nos. in one km)	LS / per km	1,111.25	0.00%	1,111.25	1,111.25	
41	Testing and Commissioning	LS / per km	1,730.28	0.00%	1,730.28	1,730.28	
42	Manual Transportation of all materials: Unskilled 24 Mandays + Skilled (Electrician Grade-I) 2 Mandays	Per KM	13,756.25	0.00%	13,756.25	13,756.25	
43	Painting of Pole (with material) - Including scrubbing of old paint, applying 2 coats of alluminium paint over primer, and painting all the metal parts of the structure	Per M	126.70	0.00%	126.70	126.70	



17. 33 kV Covered conductor labour line

Sl. No.	Description of item of Work	Unit	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
			Normal Soil	Hard Soil	
1	Survey and investigation including pegging	Per route Km.	2,214.74	2,214.74	
2	Pole pit excavation (for 52/60 kg 13 mtrs. Rail Pole)	Per Pit	557.88	836.83	
3	Erection of Pole (Rail Pole 52 kg 13 mtrs.)		-		
	(a) Single pole with base plate.	Per Pole	1,844.74	1,844.74	
	(b) Double pole with base plate.	Per DP Complete	2,872.23	2,872.23	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	4,146.84	4,146.84	
	(d) Four pole with base plate.	Per FP Complete	7,378.97	7,378.97	
4	Erection of Pole (Rail Pole 60 kg 13 mtrs.)		-		
	(a) Single pole with base plate.	Per Pole	2,128.55	2,128.55	
	(b) Double pole with base plate.	Per DP Complete	3,314.13	3,314.13	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	4,784.83	4,784.83	
	(d) Four pole with base plate	Per FP Complete	8,514.19	8,514.19	
5	Pole pit excavation (RS Joist Pole 9.3 meter (175x85mm) 19.6 kgs per mtr)	Per Pit	399.09	598.64	
6	Erection of Pole (RS Joist Pole 9.3 meter (175x85mm) 19.6 kgs per mtr)		-		
	(a) Single pole with base plate.	Per Pole	497.42	497.42	
	(b) Double pole with base plate.	Per DP Complete	994.86	994.86	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	1,492.28	1,492.28	
	(d) Four pole with base plate	Per FP Complete	1,989.70	1,989.70	
7	Pole pit excavation (RS Joist Pole 9 meter (116x100mm) 23 kgs per mtr)	Per Pit	386.23	579.34	
8	Erection of Pole (RS Joist Pole 9 meter (116x100mm) 23 kgs per mtr)		-		
	(a) Single pole with base plate.	Per Pole	564.88	564.88	
	(b) Double pole with base plate.	Per DP Complete	1,129.77	1,129.77	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	1,694.65	1,694.65	



Sl. No.	Description of item of Work	Unit	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
			Normal Soil	Hard Soil	
	(d) Four pole with base plate	Per FP Complete	2,259.54	2,259.54	
9	Pole pit excavation (H Beam Pole 11 meters (152x152mm) 37.1 kgs per mtr)	Per Pit	472.05	708.07	
10	Erection of Pole (H Beam Pole 11 meters (152x152mm) 37.1 kgs per mtr)				
	(a) Single pole with base plate.	Per Pole	1,113.66	1,113.66	
	(b) Double pole with base plate.	Per DP Complete	2,227.33	2,227.33	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	3,341.01	3,341.01	
	(d) Four pole with base plate	Per FP Complete	4,454.67	4,454.67	
11	Concreting and top muffing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 20 cft	2,123.43	2,123.43	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
		Per 40 cft	4,246.86	4,246.86	
		Per 60 cft	6,370.28	6,370.28	
		Per 80 cft	8,493.71	8,493.71	
12	Stay pit excavation	Per Pit	359.30	538.95	
13	Erection of stay with stone /RCC stay plate and stay binding and fitting of stay clamps etc. and filling with earth and proper ramming thereof complete	Per Stay	767.06	767.06	
14	Concreting of stay with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per Stay (7.5 cft)	796.29	796.29	"Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
15	Fixing & fitting of V-cross arm	Nos.	182.85	182.85	
16	Fixing & fitting of line DP Channel	Set	409.04	409.04	
17	Fixing & fitting of cross bracing in DP	Per cross bracing	278.94	278.94	
18	Fitting of all brackets (including top bracket and guard bracket) on		-		
	a) Single pole	Per Pole	265.32	265.32	
	b) Double pole	Per DP	795.93	795.93	
	c) Tri pole	Per TP	1,061.25	1,061.25	



Sl. No.	Description of item of Work	Unit	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
			Normal Soil	Hard Soil	
	d) Four pole	Per FP	1,591.87	1,591.87	
19	a) Fitting of pin insulator on bracket on single pole	Per Pole	110.74	110.74	
	b) Fitting of 70 KN disc insulator with hardware fitting including pin insulator where necessary (for piloting, etc)	Per six sets	376.51	376.51	
20	Laying out and sagging of Conductor Including mid jointing wherever necessary for the three phases				
	(i) For 100 sq.mm. Covered Conductor with XLPE Insulation for 33 KV	Per route Km.	17,675.77	17,675.77	
	(ii) For 150 sq.mm Covered Conductor with XLPE Insulation for 33 KV	Per route Km.	32,615.40	32,615.40	
	(iii) For 200 sq.mm Covered Conductor with XLPE Insulation for 33 KV	Per route Km.	43,741.44	43,741.44	
21	Laying out and sagging of 100 sq mm covered conductor with XLPE insulation for 33 KV at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	26,513.66	26,513.66	
	Laying out and sagging of 150 sq mm covered conductor with XLPE insulation for 33 KV at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	35,351.55	35,351.55	
	Laying out and sagging of 200 sq mm covered conductor with XLPE insulation for 33 KV at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	48,923.10	48,923.10	
22	Laying out and sagging of 100 sqmm covered conductor with XLPE insulation for 33 KV at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	65,230.80	65,230.80	
	Laying out and sagging of 150 sq mm covered conductor with XLPE insulation for 33 KV at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	65,612.15	65,612.15	
	Laying out and sagging of 200 sqmm covered conductor with XLPE insulation for 33 KV at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	87,482.87	87,482.87	
23	Pin Binding as per standard practice or as per direction of Engineer I/C	Per Pole	110.74	110.74	



Sl. No.	Description of item of Work	Unit	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
			Normal Soil	Hard Soil	
24	Jumpering connection of conductors including earth wires at all cut points / D.P. as per direction of the Engineer I/C	Per DP	207.62	207.62	
25	Earthing including fixing of GI Pipe and wire as per direction of Engineer I/C (GI Pipe and wire to be supplied by Nigam)	Per earthing	888.19	1,332.28	
26	Laying out and sagging of GI wire (7/12 SWG) including fitting of earth clamp and in mid span jointing wherever necessary	Per route Km.	4,216.07	4,216.07	
27	Fixing and fitting of danger board on pole near Road corner wherever necessary as per direction of E/I	Per Board	57.66	57.66	
28	Guarding of power line as per approved practices	Per Running Meter	73.83	73.83	
29	Cutting of Rails	Per cutting	184.55	184.55	
30	Erection of Rail pole beyond specified length including excavation of extra pole pit depth for special locations.	Rft. Of Pole length	46.14	69.21	
31	Jointing of rail pieces by welding by jointing fishplate's of M.S. channel and welding.	Per inch of welding	57.66	57.66	
32	Drilling of hole in rail pole	Per Hole	57.66	57.66	
33	Drilling of hole in V Cross / Clamp/ angle/ flat etc	per Hole	16.80	16.80	
34	Arc Welding of Flat / angle / channel etc	Per inch of welding	57.66	57.66	
35	Fitting of MS angle on V cross arm with rail pole as tie	per V cross arm	74.98	74.98	
36	Binding of conductor	Per Pole	219.17	219.17	
37	Fitting of extra clamps	Each	74.98	74.98	
38	Installation of 33KV AB Switch	Each Set	2,733.80	2,733.80	
39	Tree branches trimming (for number of trees upto 10 nos. in one km)	LS / per km	576.76	576.76	
40	Tree branches trimming (for number of trees more than 10 nos. in one km)	LS / per km	1,111.25	1,111.25	
41	Testing and Commissioning	LS / per km	1,730.28	1,730.28	
42	Manual Transportation of all materials: Unskilled 24 Mandays + Skilled (Electrician Grade-I) 2 Mandays	Per KM	13,756.25	13,756.25	



Sl. No.	Description of item of Work	Unit	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
			Normal Soil	Hard Soil	
43	Painting of Pole (with material) - Including scrubbing of old paint, applying 2 coats of alluminium paint over primer, and painting all the metal parts of the structure	Per M	126.70	126.70	



18. 11kV labour line

Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/Comments
					Normal Soil	Hard Soil	
1	Survey and investigation including pegging	Per route Km.	2,214.74	0.00%	2,214.74	2,214.74	
2	Pole pit excavation (for 400 KG W.L 9 mtr. PSC pole)	Per Pit	383.90	0.00%	383.90	575.84	
3	Erection of Pole						
	(a) Single PSC Pole 400 KG W.L (9 mtr.)	Pole	620.13	0.00%	620.13	620.13	
	(b) Double PSC Pole 400 KG W.L (9 mtr.)	Per DP	1,232.86	0.00%	1,232.86	1,232.86	
	(c) Tri PSC Pole 400 KG W.L (9 mtr.)	Per TP	1,860.39	0.00%	1,860.39	1,860.39	
	(d) Four PSC Pole 400 KG W.L (9 mtr.)	Per FP	2,480.53	0.00%	2,480.53	2,480.53	
4	a) Filling of half depth of Pole pit with Jhama chips/stone chips and proper ramming after filling with earth in case of PSC Pole (stone/Jhama chips to be supplied by the contractor)	Per Pole Pit	553.69	0.00%	553.69	553.69	Ref: Building Construction Department (Govt. of Jharkhand)
	+						
	b) Filling of Pole pit with earth in layers pouring water in each layer and ramming the earth properly as per standard practice of the Nigam.	Per Pole Pit	144.19	0.00%	144.19	144.19	
	(a+b) OR c		-		-		
	c) Concreting and top mufing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering,	Per 20 cft	2,123.43		2,123.43	2,123.43	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/Comments
					Normal Soil	Hard Soil	
	mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)						w.e.f. 28th July 2022
5	Pole pit excavation (for Tubular pole 9 mtr)	Per Pit	319.82	0.00%	319.82	479.73	
6	Erection of Pole (Tubular Pole 9 mtr)						
	(a) Single pole with base plate	Per Pole	541.46	0.00%	541.46	541.46	
	(b) Double pole with base plate	Per DP Complete	1,082.91	0.00%	1,082.91	1,082.91	
7	Pole pit excavation (for Tubular pole 11 mtr)	Per Pit	383.90	0.00%	383.90	575.84	
8	Erection of Pole (Tubular Pole 11mtr)						
	(a) Single pole with base plate	Per Pole	792.81	0.00%	792.81	792.81	
	(b) Double pole with base plate	Per DP Complete	1,585.63	0.00%	1,585.63	1,585.63	
9	Pole pit excavation (for Tubular pole 13 mtr)	Per Pit	557.88	0.00%	557.88	836.83	
10	Erection of Pole (Tubular Pole 13mtr)						
	(a) Single pole with base plate	Per Pole	1,197.94	0.00%	1,197.94	1,197.94	
	(b) Double pole with base plate	Per DP Complete	2,395.90	0.00%	2,395.90	2,395.90	
11	Concreting of stay with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 20 cft	2,123.43		2,123.43	2,123.43	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th
		Per 40 cft	4,246.86		4,246.86	4,246.86	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/Comments
					Normal Soil	Hard Soil	
							July 2022
12	Fitting of HT Brackets and Earths wire clamps:						
	a) For Single Pole	Per Pole	177.18	0.00%	177.18	177.18	
	b) For Double Pole	Per DP	568.43	0.00%	568.43	568.43	
	c) For Tri Pole	Per TP	745.61	0.00%	745.61	745.61	
	d) For Four Pole	Per FP	1,136.86	0.00%	1,136.86	1,136.86	
13	Stay Pit Excavation	Per Pit	359.30	0.00%	359.30	538.95	
14	Erection of Stay with stone / RCC Stay plate, Stay binding by fitting stay clamps etc.	Per Stay	332.23	0.00%	332.23	332.23	
15	Concreting and top muffing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 5 cft	530.86		530.86	530.86	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
16	Fixing & fitting of V-cross arm	Nos.	107.69	0.00%	107.69	107.69	
17	Fixing & fitting of line DP Channel	Set	215.40	0.00%	215.40	215.40	
18	Fixing & fitting of cross bracing in DP	Per cross bracing	215.40	0.00%	215.40	215.40	
19	Fitting of all brackets (including top bracket and guard bracket) on						
	a) Single pole	Per Pole	265.32	0.00%	265.32	265.32	
	b) Double pole	Per DP	795.93	0.00%	795.93	795.93	
	c) Tri pole	Per TP	1,061.25	0.00%	1,061.25	1,061.25	
	d) Four pole	Per FP	1,591.87	0.00%	1,591.87	1,591.87	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/Comments
					Normal Soil	Hard Soil	
20	a) Fixing and fitting of Pin Insulators with Pin on Single Pole	Per Pole	110.74	0.00%	110.74	110.74	
	b) Fixing of all Disc. Insulators with hardware including Pin Insulator (if necessary) on Double Pole structure	Per DP	376.51	0.00%	376.51	376.51	
21	Laying out and sagging of conductor including termination at cut point / DP and Mid Span jointing for all the three phases wherever necessary.						
	(i) Dog (100 sq.mm.) Conductor	Per Route Km	16,069.11	0.00%	16,069.11	16,069.11	
	(ii) Racocon (80 sq.mm.) Conductor	Per Route Km	12,969.49	0.00%	12,969.49	12,969.49	
	(iii) Weasel (34 sq.mm.) Conductor	Per Route Km	5,220.42	0.00%	5,220.42	5,220.42	
22	Laying out and sagging of Rabbit (55 sq.mm.) conductor including termination at cut point and Mid span jointing wherever necessary						
	a) Four Cut Point	Per Route KM	11,478.6	0.00%	11,478.55	11,478.55	
	b) Three Cut Point	Per Route KM	10,330.7	0.00%	10,330.69	10,330.69	
	c) Two Cut Point	Per Route KM	7,059.9	0.00%	7,059.88	7,059.88	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	d) One Cut Point	Per Route KM	5,159.2	0.00%	5,159.18	5,159.18	
23	Laying out and sagging of Dog conductor at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	24,103.66	0.00%	24,103.66	24,103.66	
	Laying out and sagging of Racocon conductor at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	19,454.23	0.00%	19,454.23	19,454.23	
24	Laying out and sagging of Dog conductor at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	32,138.23	0.00%	32,138.23	32,138.23	
	Laying out and sagging of Racocon conductor at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	25,938.98	0.00%	25,938.98	25,938.98	
25	Pin Binding as per standard practice or as per direction of Engineer I/C	Per Pole	110.74	0.00%	110.74	110.74	
26	Jumpering connection of conductors including earth wires at all cut points / D.P. as per direction of the Engineer I/C	Per DP	207.62	0.00%	207.62	207.62	
27	Earthing including fixing of GI Pipe and wire as per direction of Engineer I/C (GI Pipe and wire to be supplied by Nigam)	Per earthing	575.85	0.00%	575.85	863.78	
28	Laying out and sagging of GI wire no. 7/14 as earth wire including jointing to earth clamp (per three phases)	Per route Km.	4,216.07	0.00%	4,216.07	4,216.07	
29	Fixing and fitting of 11KV AB Switch on DP with all	Per Switch	1,971.12	0.00%	1,971.12	1,971.12	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/Comments
					Normal Soil	Hard Soil	
	hardware fitting used for sectionalizing of Line as per direction of Engineer I/C						
30	Fixing and fitting of danger board on pole near Road corner wherever necessary as per direction of E/I	Per Board	57.66	0.00%	57.66	57.66	
31	Guarding of power line as per approved practices	Per Running Meter	73.83	0.00%	73.83	73.83	
32	Fitting of MS angle on V cross arm with PSC pole as tie (excluding back clamp on PSC Pole)	per V cross arm	74.98	0.00%	74.98	74.98	
33	Fitting of extra clamps	Each	74.98	0.00%	74.98	74.98	
34	Arc Welding of Flat / angle / channel etc	Per inch of welding	57.66	0.00%	57.66	57.66	
35	Tree branches trimming (for number of trees upto 10 nos. in one km)	LS / per km	576.76	0.00%	576.76	576.76	
36	Tree branches trimming (for number of trees more than 10 nos. in one km)	LS / per km	1,111.25	0.00%	1,111.25	1,111.25	
37	Testing and Commissioning	LS / per km	1,730.28	0.00%	1,730.28	1,730.28	
38	Manual Transportation	Per KM	11,700.14	0.00%	11,700.14	11,700.14	

Remark 1 - Manual transportation charges given above are meant for entire quantity of material required for erection of one km line. In case length of line is in fraction, then proportionate charges should be calculated. Similarly, if the entire material required for 1 km of line is not required to be transported actual man days required for such transportation should be considered for deciding transportation charges.

Remark 2 - The above rates are indicative in nature subject to the provision of the material used in the BoQ. For instance While preparing an estimate if Rail poles/STP are used instead of PSC Poles, then the cost of installation is going to be the same as that labour rates for erection and installation of Rail poles/STP used under labour charges for installation of new 33 kV lines. Similarly the case if the PSC 200 kg is used in estimate previously employing PSC 400kg, the respective labour rates would be used irrespective of voltage level under which they were considered to operate.



19. 11 KV Covered Conductor Labour Line

Sl. No.	Description of item of Work	Unit	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
			Normal Soil	Hard Soil	
1	Survey and investigation including pegging	Per route Km.	2,214.74	2,214.74	
2	Pole pit excavation (for 60 kg 13 mtrs. Rail Pole)	Per Pit	557.88	836.83	
3	Erection of Pole (Rail Pole 60 kg 13 mtrs.)				
	(a) Single pole with base plate.	Per Pole	2,128.55	2,128.55	
	(b) Double pole with base plate.	Per DP Complete	3,314.13	3,314.13	
	(c) Tri pole with base plate with cross bracing on rail pole	Per TP Complete	4,784.83	4,784.83	
	(d) Four pole with base plate.	Per FP Complete	8,514.19	8,514.19	
4	Concreting and top muffing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 20 cft	2,123.43	2,123.43	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
		Per 40 cft	4,246.86	4,246.86	
		Per TP	745.61	745.61	
5	Stay Pit Excavation	Per Pit	359.30	538.95	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
	Erection of Stay with stone / RCC Stay plate, Stay binding by fitting stay clamps etc.	Per Stay	767.06	767.06	
	Concreting and top muffing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 7.5 cft	796.29	796.29	
6	Fitting of HT Brackets and Earths wire clamps:				
	a) For Single Pole	Per Pole	177.18	177.18	
	b) For Double Pole	Per DP	568.43	568.43	
	c) For Tri Pole	Per TP	745.61	745.61	
	d) For Four Pole	Per FP	1,136.86	1,136.86	
7	Fixing & fitting of V-cross arm	Nos.	107.69	107.69	
8	Fixing & fitting of line DP Channel	Set	215.40	215.40	
9	Fixing & fitting of cross bracing in DP	Per cross bracing	215.40	215.40	
10	Fitting of all brackets (including top bracket and guard bracket) on				



Sl. No.	Description of item of Work	Unit	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
			Normal Soil	Hard Soil	
	a) Single pole	Per Pole	265.32	265.32	
	b) Double pole	Per DP	795.93	795.93	
	c) Tri pole	Per TP	1,061.25	1,061.25	
	d) Four pole	Per FP	1,591.87	1,591.87	
11	a) Fixing and fitting of Pin Insulators with Pin on Single Pole	Per Pole	110.74	110.74	
	b) Fixing of all Disc. Insulators with hardware including Pin Insulator (if necessary) on Double Pole structure	Per DP	376.51	376.51	
12	Laying out and sagging of covered conductor including termination at cut point / DP and Mid Span jointing for all the three phases wherever necessary.				
	(i) 100 sq.mm. Covered Conductor with XLPE insulation for 11 KV	Per Route Km	17,676.34	17,676.34	
	(ii) 50 sq.mm. Covered Conductor with XLPE insulation for 11 KV	Per Route Km	12,969.49	12,969.49	
13	Laying out and sagging of 100 sq mm covered conductor XLPE insulation for 11 KV at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	26,514.50	26,514.50	
	Laying out and sagging of 50 sq mm covered conductor XLPE insulation for 11 KV at River crossing (if span exceeds more than 400 feet and upto 500 feet)	Per running Km. (3 phase)	19,454.85	19,454.85	
14	Laying out and sagging of 100 sq mm covered conductor XLPE insulation for 11 KV at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	35,352.67	35,352.67	
	Laying out and sagging of 50 sq mm covered conductor XLPE insulation for 11 KV at River crossing (if span exceeds more than 500 feet)	Per running Km. (3 phase)	25,939.80	25,939.80	
15	Pin Binding as per standard practice or as per direction of Engineer I/C	Per Pole	110.74	110.74	
	Jumpering connection of conductors including earth wires at all cut points / D.P. as per direction of the Engineer I/C	Per DP	207.62	207.62	
16	Earthing including fixing of GI Pipe and wire as per direction of Engineer I/C (GI Pipe and wire to be supplied by Nigam)	Per earthing	575.85	863.78	
	Laying out and sagging of GI wire no. 7/14 as earth wire including jointing to earth clamp (per three phases)	Per route Km.	4,216.07	4,216.07	



Sl. No.	Description of item of Work	Unit	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
			Normal Soil	Hard Soil	
17	Fixing and fitting of 11KV AB Switch on DP with all hardware fitting used for sectionalizing of Line as per direction of Engineer I/C	Per Switch	1,971.12	1,971.12	
18	Fixing and fitting of danger board on pole near Road corner wherever necessary as per direction of E/I	Per Board	57.66	57.66	
19	Guarding of power line as per approved practices	Per Running Meter	73.83	73.83	
20	Fitting of MS angle on V cross arm with rail pole as tie	per V cross arm	74.98	74.98	
21	Fitting of extra clamps	Each	74.98	74.98	
22	Arc Welding of Flat / angle / channel etc	Per inch of welding	57.66	57.66	
23	Tree branches trimming (for number of trees upto 10 nos. in one km)	LS / per km	576.76	576.76	
24	Tree branches trimming (for number of trees more than 10 nos. in one km)	LS / per km	1,111.25	1,111.25	
25	Testing and Commissioning	LS / per km	1,730.28	1,730.28	
26	Manual Transportation	Per KM	11,700.14	11,700.14	



20. 33-11 kV PSS labour

Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
A	B	C	D	E	F = E*(1+E)	G = F*1.5	H
1	Erection of 33KV Gantry column and girder including concrete foundation and top muffing for complete structures with a two-legged gantry column (including supply of stone/jhama chips and without cement which is to be supplied by JBVNL)	Per Structure	35,758.72	0.00%	35,758.72	53,638.08	
2	Erection of structure for 33KV / 11KV CT / PT including concrete foundation and top muffing (including supply of stone/jhama chips and without cement which is to be supplied by JBVNL)	Per Structure	13,288.42	0.00%	13,288.42	19,932.62	
3	Construction of brick foundation plinth of 33KV breaker as per approved drawing (including supply of stone/jhama chips and without cement which is to be supplied by JBVNL)	Per Foundation	32,130.93	0.00%	32,130.93	32,130.93	
4	Erection of structure for 33KV Horn Gap fuse set including concrete foundation and top muffing (including supply of stone/jhama chips and without	Per Structure	14,764.88	0.00%	14,764.88	22,147.32	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	cement which is to be supplied by JBVNL)						
5	Erection of structure for 33KV / 11KV swing bus including concrete foundation and top muffing (including supply of stone/jhama chips and without cement which is to be supplied by JBVNL)	Per Structure	22,147.34	0.00%	22,147.34	33,221.01	
6	Erection of pedestal support structure for 33KV / 11KV power bus including concrete foundation and top muffing (including supply of stone/jhama chips and without cement which is to be supplied by JBVNL)	Per Structure	2,820.34	0.00%	2,820.34	4,230.51	
7	Construction of brick foundation plinth of 11KV breaker as per approved drawing (including supply of stone/jhama chips and without cement which is to be supplied by JBVNL)	Per Foundation	20,965.00	0.00%	20,965.00	20,965.00	
8	Erection of structure for 11KV Horn Gap fuse set including concrete foundation and top muffing (including supply of stone/jhama chips and without cement which is to be supplied by JBVNL)	Per Structure	13,288.42	0.00%	13,288.42	19,932.62	
9	Erection of terminals / take off structure of	Per Structure	23,623.82	0.00%	23,623.82	35,435.73	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	11KV line including concrete foundation and top muffing (including supply of stone/jhama chips and without cement which is to be supplied by JBVNL)						
10	Erection and commissioning of 33KV/110V CTPT combined metering units of different capacity for feeder metering including installation of HT trivector meter with meter box and other allied works complete	Per CTPT	4,317.36	0.00%	4,317.36	6,476.04	
11	Fixing and fitting of AB switch complete with operating, handling and making necessary connections to the equipment		-		-		
	a) For 33KV side	Per Set	3,004.89	0.00%	3,004.89	3,004.89	
	b) For 11KV Side	Per Set	2,157.04	0.00%	2,157.04	2,157.04	
12	Fixing and fitting of post insulator on pedestal support structure including fixing of lower bus bar (Al. pipe.), jumper connection to the lower bus bar and to the swing bus		-	-	-		
	a) For 33KV side	For All Three Phase	3,085.62	0.00%	3,085.62	3,085.62	
	b) For 11KV Side	For All Three Phase	2,260.88	0.00%	2,260.88	2,260.88	
13	Fixing of lightening arrestor (one set						



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	consisting of 3LA one in each circuit) with connection to line and earth.						
	a) For 33KV side	Per Set	3,316.32	0.00%	3,316.32	3,316.32	
	b) For 11KV Side	Per Set	2,260.88	0.00%	2,260.88	2,260.88	
14	Fixing and fitting of Horn Gap fuse set and fitting of HT pin insulator of Horn						
	a) For 33KV	Each	1,441.88	0.00%	1,441.88	1,441.88	
	b) For 11KV	Each	1,032.40	0.00%	1,032.40	1,032.40	
15	Erection and commissioning of 11KV/110V CTPT combined metering units of different capacity for feeder metering including installation of HT trivector meter with meter box and other allied works complete	Per CTPT	2,219.23	0.00%	2,219.23	2,219.23	
16	Fixing of 33KV PT on the structure and its connections	Per Set	2,157.04	0.00%	2,157.04	2,157.04	
17	Fixing of 33KV CT on the structure and its connections	Per Set	2,157.04	0.00%	2,157.04	2,157.04	
18	Fitting of disc Insulator to swing bus structure with hardware fittings		-	-	-		
	a) For 33KV side (One set shall consist of three strain sets. Each strain set consisting of 3 nos of disc insulator)	Per Set	997.81	0.00%	997.81	997.81	
	b) For 11KV side (One set shall consist of three	Per Set	332.60	0.00%	332.60	332.60	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	strain sets of single disc insulator)						
19	Stringing and sagging of all the three phase of swing bus with jumpering for 33KV & 11KV with		-	-	-		
	a) ACSR Panther (232 sq.mm.)	Per Horizontal Meter	322.99	0.00%	322.99	322.99	
	b) ACSR Dog (100 sq.mm.)	Per Horizontal Meter	288.36	0.00%	288.36	288.36	
20	Construction of transformer brick concrete foundation with plinth of 33/11KV Power Transformers as per approved drawing	Per Foundation	58,234.80	0.00%	58,234.80	58,234.80	
21	Placing of power transformer on the plinth with jumpering connections both on 33KV and 11KV						
	a) For 5 MVA Power Transformer	Per Transformer	58,321.30	0.00%	58,321.30	58,321.30	
	b) For 10 MVA Power Transformer	Per Transformer	87,481.94	0.00%	87,481.94	87,481.94	
22	Erection of 33KV Breaker with structure, CT, PT and control & relay panel	Per Set	12,222.22	0.00%	12,222.22	12,222.22	
23	Erection of 11KV Breaker with structure, CT, PT and control & relay panel	Per Set	12,222.22	0.00%	12,222.22	12,222.22	
24	Laying of control cable in trenches with all connections	Per RMT	70.49	0.00%	70.49	70.49	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
25	Placing 11KV kiosk on plinth and jumpering connection to sub-station equipment	Per erected kiosk	5,952.10	0.00%	5,952.10	5,952.10	
26	(a) 3'x2'10' earth pit digging, laying of GI plate, GI Pipe, filling with charcoal and salt in proportionate quantity filling the earth pit with earth and taking out GI pipe for watering upto ground level and brick work for the same (charcoal, salt and brick to be supplied by the contractor)	Per Pit	5,790.59	0.00%	5,790.59	8,685.88	
	b) Laying out M.S. flat (50x6mm) matting and earth connection with earthing pipe as per technical specification and painting the joints with anti corrosive paints.	Per Meter	132.64	0.00%	132.64	132.64	
	c) Welding of M.S. flat to different structure of sub-station.	Per Point	34.59	0.00%	34.59	34.59	
27	600 mm dia x 10 ft earth pit digging, laying of GI earthing pipe and filling of surrounding volume with Bentonite (45 kg as per IS 3043 - 1987) suspension formed by mixing bentonite with water in ratio 1:4 and taking out GI pipe for watering upto ground level and brick work for the same (brick and	Per pit	7,296.07	0.00%	7,296.07	10,944.11	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	sand to be supplied by the contractor)						
28	Connections of power transformer neutral with separate earth pit with copper flat of requisite size.	Each	1,926.35	0.00%	1,926.35	1,926.35	
29	Earthing (Deep Bore of 30 meter) including 115/125 mm dia drill tubewell with supply of G.I. pipe 2" dia having nine holes per meter of G.I.Pipe at a gap of 11cm per holes all along around the pipe (including supply and filling charcoal, salt with intermittent layer or bentonite powder)	Per earthing	47,673.00	0.00%	47,673.00	71,509.50	
30	Supply and erection of ACE CHEMROD (Artificial Concept of Earthing by Chemical Rod) :- ACE Chemrod Earthing Electrode (consisting mild steel galvanised pipe of size 2500 mm in length X 48 mm outer dia. X 2 mm thick, MS rod of size 2575 mm X 16 mm be welded with bottom. The epoxy insulator of not less than 100 mm length is to be fixed on top of mild steel galvanised pipe. A highly conductive substance (CCM powder & anti corrosive material) is to	Set	18,655.27	0.00%	18,655.27	18,655.27	Supply of material is included



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	be filled in residual gap between pipe and rod, Back fill compound (BFC which is a mixture of harmonic & high-grade graphite with other conductive minerals not less than 50 Kg). treatment						
31	Connecting G.I. flat for different structures/ equipment in the PSS	Per Meter	42.03	0.00%	42.03	42.03	
32	Connecting Neutral / body of Power Transformer with earthing	Per Meter	50.42	0.00%	50.42	50.42	
33	Painting of all structures with 2 coats of Red oxide paint and 2 coats of Al. paint (paint to be supplied by Nigam)	Lump sum	4,682.56	0.00%	4,682.56	4,682.56	
34	Preparation of cable trench of 0.75 mtr. width and depth upto 1 mtr. With all associated works as per design (including cost of required material for civil works) and further depositing excavated material on bank upto a lead of 50 mtrs.	Per Meter	1,714.30	0.00%	1,714.30	2,571.46	
35	Erection of 100KVA Substation Transformer	Nos.	37,895.45	0.00%	37,895.45	37,895.45	
36	Erection/Installation of Lighting system for 12 set	LS	2,718.69	0.00%	2,718.69	2,718.69	
37	Pole pit excavation (for Tubular pole 9 mtr) (for Lighting /Illumination)	Per Pit	319.82	0.00%	319.82	479.73	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
38	Erection of Single Pole with base plate (Tubular Pole 9 mtr) (for Lighting /Illumination)	Per Pole	541.46	0.00%	541.46	541.46	



21. DSS Labour

Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
A	B	C	D	E	$F = E*(1+E)$	$G = F*1.5$	H
1	Pole pit excavation (for 400 KG W.L 9 mtr. PSC pole)	Per Pit	383.90	0.00%	383.90	575.84	
2	Erection of Pole						
	(a) Single PSC Pole 400 KG W.L (9 mtr.)	Pole	620.13	0.00%	620.13	620.13	
	(b) Double PSC Pole 400 KG W.L (9 mtr.)	Per DP	1,232.86	0.00%	1,232.86	1,232.86	
	(c) Tri PSC Pole 400 KG W.L (9 mtr.)	Per TP	1,860.39	0.00%	1,860.39	1,860.39	
	(d) Four PSC Pole 400 KG W.L (9 mtr.)	Per FP	2,480.53	0.00%	2,480.53	2,480.53	
3	c) Concreting and top muffing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 20 cft	2,123.43		2,123.43	2,123.43	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
4	Stay pit excavation	Per Pit	259.53	0.00%	259.53	389.30	
5	Erection of Stay with stone / RCC Stay plate, Stay binding by fitting stay clamps etc.	Per Stay	332.23	0.00%	332.23	332.23	
6	Concreting of stay with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture	Per 5 cft	530.86		530.86	530.86	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	in position, vibrating, striking, curing, taxes and royalty all complete)						
7	Fixing of Sub-Station Top channel, AB switch base channel, Horn gap fuse set base channel, Transformer Base channel, etc complete.	Per DP complete Set	2,008.04	0.00%	2,008.04	2,008.04	
8	Fixing and fitting of 11KV AB Switch complete set with handle etc. as per Tech. Specification and direction of E/I.	Per Set	1,971.12	0.00%	1,971.12	1,971.12	
9	Fixing and fitting of 11KV Horn gap fuse set including making Horn gap for three phase as per approved design and direction of the Engineer I/c.	Per Set	435.58	0.00%	435.58	435.58	
10	(a) Fixing and placing of the Transformer (25/63/100/200KVA) on Transformer base fixing with pole with proper clamps and Angle Iron, welding the transformer with transformer base channel and Transformer Angle Iron with clamps.	Per Xmer	3,159.68	0.00%	3,159.68	3,159.68	
	(b) Fixing and placing of the Transformer (500 KVA) on Transformer base fixing with pole with proper clamps and Angle Iron, welding the transformer with transformer base channel and Transformer Angle Iron with clamps.	Per Xmer	6,319.37	0.00%	6,319.37	6,319.37	
11	Fixing and fitting of one set of Lightning Arrestor consisting of 3 Nos. Lighting	Per Set	1,247.63	0.00%	1,247.63	1,247.63	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	Arrestor with its connections to the phase conductors and to Earth for all the three phase.						
12	Jumpering through suitable lugs of clamps (including supply of lugs) from :- a) Line to AB switch b) AB Switch to HG Fuse Set. c) HG Fuse Set to HT Bushing of the transformer complete works for one sub-station. d) Making of LT busbar arrangement including fixing and fitting of LT insulators with fuse arrangements(one side/both side) with jumpering to LT line complete	complete for each pole mounted SS	1,193.80	0.00%	1,193.80	1,193.80	
13	Earthing including fixing of GI pipe and wire as per direction of the Engineer O/C (GI Pipe and wire to be supplied by the Nigam)						
	a) For Neutral of the Transformer as per approved practice and design including its connections.	Per Earthing	1,066.99	0.00%	1,066.99	1,600.48	
	b) Transformer body and Lightning Arrestor as per approved drawings and design including its charcoal connections self. Etc. to supplied by the contractor.	Per Earthing	1,066.99	0.00%	1,066.99	1,600.48	
	c) Painting of structure bracket etc. by two coats of Al. paint after one coat of	Each D/S/S	1,897.51	0.00%	1,897.51	1,897.51	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	Red oxide paint (Paints to be supplied by Nigam)						
14	Erection of LTCT Meter with meter box with Modem and SIM including connections complete as per Engineer-in-charge .	Each D/S/S	1,505.81	0.00%	1,505.81	1,505.81	
15	Installation / Fixing of 16 /25 kVA Distribution Box on DP, complete wiring, connecting LT cable on bushing and LT feeders	Per No.	506.90	0.00%	506.90	506.90	
	Installation / Fixing of 63 kVA Distribution Box on DP, complete wiring, connecting LT cable on bushing and LT feeders	Per No.	633.63	0.00%	633.63	633.63	
	Installation / Fixing of 100 kVA Distribution Box on DP, complete wiring, connecting LT cable on bushing and LT feeders	Per No.	678.89	0.00%	678.89	678.89	
	Installation / Fixing of 200 kVA Distribution Box on DP, complete wiring, connecting LT cable on bushing and LT feeders	Per No.	778.53	0.00%	778.53	778.53	
	Installation / Fixing of 315 kVA & above Distribution Box on DP, complete wiring, connecting LT cable on bushing and LT feeders	Per No.	841.82	0.00%	841.82	841.82	
16	Construction of platform (1.5x1.5x1.2) mtr in size stone, for erection of transformers/Heavy equipment including all materials, labour. Excavation of (1.5x1.5x1) mt pit for foundation providing and laying cement concrete 1:4:8	Per Plinth	34,303.96	0.00%	34,303.96	51,455.94	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	for foundation laid in 1cm thick layers, well compacted curing etc., complete providing and construction of stone masonry 0.9m below ground level and 1.2m above ground level neatly hammer dressed in cement mortar 1:6 cutting complete providing pointing to stone masonry in cement mortar 1:3 after racking joint & nicely lining curing etc., plastering the concrete surfaces in cement mortar 1:4 including smooth rendering curing etc., curing at every stages completely.						
17	Supply and erection of ACE CHEMROD (Artificial Concept of Earthing by Chemical Rod):- ACE Chemrod Earthing Electrode (consisting mild steel galvanised pipe of size 2500 mm in length X 48 mm outer dia. X 2 mm thick, MS rod of size 2575 mm X 16 mm be welded with bottom. The epoxy insulator of not less than 100 mm length is to be fixed on top of mild steel galvanised pipe. A highly conductive substance (CCM powder & anti corrosive material) is to be filled in residual gap between pipe and rod, Back fill compound (BFC which is a mixture of harmonic & high-grade graphite with other	Set	18,655.27	0.00%	18,655.27	18,655.27	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	conductive minerals not less than 50 Kg). treatment						



22. LT line labour

Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks / Comments
					Normal Soil	Hard Soil	
A	B	C	D	E	F = E*(1+E)	G = F*1.5	H
1	Survey and investigating including pegging	Per route Km.	2,214.8	0.00%	2,214.8	2,214.8	
2	Pole pit excavation (for 200 KG W.L 8 mtr. PSC pole)	Per Pit	384.0	0.00%	384.0	576.0	
3	Erection of Single PSC pole 200 KG W.L (8 mtr.)	Per Pole	551.2	0.00%	551.2	551.2	
4	a) Filling of half depth of Pole pit with Jhama chips/stone chips and proper ramming after filling with earth in case of PSC Pole/Stone /Jhama chips to be supplied by the contractor	Per Pole Pit	553.6	0.00%	553.6	553.6	
	b) Filling of Pole pit with earth in layers pouring water in each layer and ramming the earth properly as per standard practice of the Nigam.	Per Pole Pit	144.2	0.00%	144.2	144.2	
5	Stay Pit Excavation	Per Pit	259.5	0.00%	259.5	389.3	
6	Erection of Stay with stone / RCC Stay plate Binding of Stay wire fitting of Stay clamps and "GUY" Insulator as required.	Per Stay	332.1	0.00%	332.1	332.1	
7	Concreting of stay with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size	Per 5 cft	530.9		530.86	530.9	Ref: Building Construction



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks / Comments
					Normal Soil	Hard Soil	
	graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)						Department (Govt. of Jharkhand) w.e.f. 28th July 2022
8	Fitting and fixing of LT Horizontal Bracket and clamps, 8 pieces (if required) on Single Pole	Per Pole	310.1	0.00%	310.1	310.1	
9	Fitting and fixing of LT Vertical Bracket and clamps for vertical formation from one to four as required	Per Pole	132.9	0.00%	132.9	132.9	
10	Fitting and fixing of LT Pin / Shackle Insulator on bracket with its fixtures as required	Per Pole	66.4	0.00%	66.4	66.4	
11	Earthing including fixing of GI Pipe and connecting GI wire to metal parts as per direction of the E/I (GI Pipe and wire to be supplied by the Nigam)	Per Earthing	575.8	0.00%	575.8	863.7	
12	Laying out and sagging of Rabbit (55 sq.mm.) conductor including termination at cut point and Mid span jointing wherever necessary						
	a) Four Cut Point	Per Route KM	11,478.5	0.00%	11,478.5	11,478.5	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks / Comments
					Normal Soil	Hard Soil	
	b) Three Cut Point	Per Route KM	10,330.8	0.00%	10,330.8	10,330.8	
	c) Two Cut Point	Per Route KM	7,059.8	0.00%	7,059.8	7,059.8	
	d) One Cut Point	Per Route KM	5,159.2	0.00%	5,159.2	5,159.2	
13	Laying out and sagging of Weasel (34 sq.mm.) conductor including termination at cut point and Mid span jointing wherever necessary						
	a) Four Cut Point	Per Route KM	6,865.6	0.00%	6,865.6	6,865.6	
	b) Three Cut Point	Per Route KM	6,179.1	0.00%	6,179.1	6,179.1	
	c) Two Cut Point	Per Route KM	4,222.8	0.00%	4,222.8	4,222.8	
	d) One Cut Point	Per Route KM	3,085.9	0.00%	3,085.9	3,085.9	
14	Laying out and sagging of Earth wire (8 SWG) including termination and Mid span jointing.	Per Route KM	1,956.3	0.00%	1,956.3	1,956.3	
15	Binding of LT Pin/ Shackle	Each	36.9	0.00%	36.9	36.9	
16	Jumpering of LT Conductor/Earth Wire at Cut points	Each	73.9	0.00%	73.9	73.9	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks / Comments
					Normal Soil	Hard Soil	
17	Guarding of power line as per approved practices	Per Running Meter	73.83	0.00%	73.83	73.83	
18	Fixing and fitting of danger board on pole near Road corner wherever necessary as per direction of E/I	Per Board	57.66	0.00%	57.66	57.66	
19	Fixing of Spacer where required	Each	66.4	0.00%	66.4	66.4	
20	Tree branches trimming (for number of trees upto 10 nos. in one km)	LS / per km	576.76	0.00%	576.76	576.76	
21	Tree branches trimming (for number of trees more than 10 nos. in one km)	LS / per km	1,111.25	0.00%	1,111.25	1,111.25	
22	Testing and Commissioning	LS / per km	1,730.3	0.00%	1,730.3	1,730.3	
23	Manual Transportation / Km unskilled 20 Nos. @ (Electrician Grade-I) 2 Nos.	Per KM	11,700.13	0.00%	11,700.1	11,700.13	



23. UG line labour

Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks / Comments
					Normal Soil	Hard Soil	
A	B	C	D	E	F = E*(1+E)	G = F*1.5	H
1	Construction of driving and reception pits and laying of HDPE/GI/ HUME Pipes by HDD method as per required depth						
	a) 110/140 mm/4" HDPE	Per Meter	1,275.7	0.00%	1,275.73	1,913.60	
	b) 160 mm HDPE	Per Meter	1,561.5	0.00%	1,561.46	2,342.20	
	c) 200 mm HDPE	Per Meter	1,931.2	0.00%	1,931.23	2,896.85	
	d) 4" GI Pipe	Per Meter	1,344.7	0.00%	1,344.73	2,017.10	
	e) 6" GI Pipe	Per Meter	1,623.4	0.00%	1,623.40	2,435.10	
	f) 8" GI Pipe	Per Meter	2,349.2	0.00%	2,349.23	3,523.85	
	g) 100 mm HUME Pipe	Per Meter	2,412.4	0.00%	2,412.41	3,618.62	
	h) 150 mm HUME Pipe	Per Meter	3,457.4	0.00%	3,457.41	5,186.12	
	i) 200 mm Hume Pipe	Per Meter	4,662.8	0.00%	4,662.81	6,994.22	
2	Excavation for 33KV/11KV cable laying 1200 mm deep x 500x1000 mm long trench	RMT	91.09		91.09	100.40	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
3	Excavation for LT cable laying 600 mm deep x 500 x1000 mm long trench	RMT	45.55		45.55	50.20	
4	Sand filling: Providing coarse clean sand in filling i foundation trenches or in plinth including ramming and watering in layers not exceeding 150 mm thick with	m ³	589.5		589.51	589.51	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks / Comments
					Normal Soil	Hard Soil	
	all leads and lifts including cost of all material labour, royalty and taxes all complete as per building specification and direction of E/I"						
5	Brick Flat Soling	m ²	356.5		356.52	356.52	
6	33 KV HT XLPE Cable laying Single Core 630mm ² (Armoured) (4300 kg/km)	per KM	24,853.4	0.00%	24,853.44	24,853.44	
7	33 KV HT XLPE Cable laying 3 core 400 sq mm (Armoured) (13100 kg/km)	per KM	75,716.3	0.00%	75,716.29	75,716.29	
8	33 KV HT XLPE Cable laying 3 Core 300mm ² (Armoured) (11350 kg/km)	per KM	75,716.3	0.00%	75,716.29	75,716.29	
9	33 KV HT XLPE Cable laying 3 Core 185mm ² (Armoured) (9250 kg/km)	per KM	71,932.4	0.00%	71,932.41	71,932.41	
10	33 KV HT XLPE Cable laying 3 Core 150mm ² (Armoured) (8400 kg/km)	per KM	65,322.4	0.00%	65,322.40	65,322.40	
11	33 KV HT XLPE Cable laying 3 Core 120mm ² (Armoured) (7750 kg/km)	per KM	60,267.7	0.00%	60,267.70	60,267.70	
12	33 KV HT XLPE Cable laying 3 Core 95mm ² (Armoured) (7100 kg/km)	per KM	55,213.0	0.00%	55,212.98	55,212.98	
13	11 KV XLPE Cable laying single core 630mm ² (Armoured) (3200 kg/km)	per KM	24,884.7	0.00%	24,884.72	24,884.72	
14	11KV HT XLPE cable laying 3 core, Armoured 400 sq mm (9100 kg/km)	per KM	70,765.9	0.00%	70,765.94	70,765.94	
15	11KV HT XLPE cable laying 3 core, Armoured 300sq mm (7600 kg/km)	per KM	59,101.2	0.00%	59,101.22	59,101.22	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks / Comments
					Normal Soil	Hard Soil	
16	11KV HT XLPE cable laying 3 core, Armoured 240sq mm (6600 kg/km)	per KM	51,324.8	0.00%	51,324.76	51,324.76	
17	11KV HT XLPE cable laying 3 core, Armoured 185 sq mm (5650 kg/km)	per KM	43,937.1	0.00%	43,937.09	43,937.09	
18	11KV HT XLPE cable laying 3 core, Armoured 150 sq mm (4900 kg/km)	per KM	38,104.7	0.00%	38,104.73	38,104.73	
19	11KV HT XLPE cable laying 3 core, Armoured 120 sq mm (4400 kg/km)	per KM	34,216.5	0.00%	34,216.48	34,216.48	
20	11KV HT XLPE cable laying 3 core, Armoured 95 sq mm (3850 kg/km)	per KM	29,939.4	0.00%	29,939.44	29,939.44	
21	11KV HT XLPE cable laying 3 core, Armoured 70 sq mm and below (3300 kg/km)	per KM	25,662.4	0.00%	25,662.37	25,662.37	
22	LT XLPE cable laying 3.5 core, Armoured 400sq mm (6480 kg/km)	per KM	50,391.6	0.00%	50,391.57	50,391.57	
23	LT XLPE cable laying 3.5 core, Armoured 300sq mm (5170 kg/km)	per KM	40,204.4	0.00%	40,204.38	40,204.38	
24	LT XLPE cable laying 3.5 core, Armoured 240 sq mm (4290 kg/km)	per KM	33,361.1	0.00%	33,361.08	33,361.08	
25	LT XLPE cable laying 3.5 core, Armoured 185 sq mm (3480 kg/km)	per KM	27,062.1	0.00%	27,062.13	27,062.13	
26	LT XLPE cable laying 3.5 core, Armoured 150 sq mm (2840 kg/km)	per KM	22,085.2	0.00%	22,085.19	22,085.19	
27	LT XLPE cable laying 3.5 core, Armoured 120 sq mm (2460 kg/km)	per KM	19,130.1	0.00%	19,130.13	19,130.13	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks / Comments
					Normal Soil	Hard Soil	
28	LT XLPE cable laying 3.5 core, Armoured 95 sq mm (2000 kg/km)	per KM	15,553.0	0.00%	15,552.96	15,552.96	
29	LT XLPE cable laying 3.5 core, Armoured 70 sq mm (1610 kg/km)	per KM	12,520.1	0.00%	12,520.13	12,520.13	
30	LT XLPE cable laying 3.5 core, Armoured 50 sq mm (1230 kg/km)	per KM	9,565.1	0.00%	9,565.07	9,565.07	
31	LT XLPE cable laying 3.5 core, Armoured 35 sq mm (1030 kg/km)	per KM	8,009.8	0.00%	8,009.77	8,009.77	
32	LT XLPE cable laying 3.5 core, Armoured 25 sq mm and below (870 kg/km)	per KM	6,765.5	0.00%	6,765.53	6,765.53	
33	Cable Jointing, Straight Through Joint for 400 sq mm HT 3 core armoured cable	Per joint	3,226.7	0.00%	3,226.74	3,226.74	
34	Cable Jointing Straight Through Joint 300/240/185/150 sq mm HT 3 core cable	Per joint	3,226.7	0.00%	3,226.74	3,226.74	
35	Cable Jointing Straight Through Joint 120/95/70 sq mm HT 3 core cable	Per joint	1,868.1	0.00%	1,868.11	1,868.11	
36	Cable Jointing, Termination joint, HT for 400/300 /240/150 sq mm 3 core armoured cable both ID & OD	Per joint	2,957.8	0.00%	2,957.84	2,957.84	
37	Cable Jointing, Termination joint, HT for 120/95/70 sq mm 3 core armoured cable both ID & OD	Per joint	1,712.4	0.00%	1,712.42	1,712.42	
38	Laying of Half Round pipe over cable each 2 meter long	Nos.	33.62	0.00%	33.62	33.62	
39	Refilling of cable trench for 33KV / 11KV	RMT	84.04	0.00%	84.04	126.06	
40	Refilling of cable trench for LT	RMT	67.23	0.00%	67.23	100.85	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks / Comments
					Normal Soil	Hard Soil	
41	Pole pit excavation (for 52/60 kg 13 mtrs. Rail Pole)	Per Pit	557.90	0.00%	557.90	836.85	
42	Erection of Pole (Rail Pole 60 kg 13 mtrs.)						
	(a) Double pole with base plate.	Per DP Complete	3,314.23	0.00%	3,314.23	3,314.23	
43	Concreting and top muffing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 40 cft	1,625.55		1,625.55	1,625.55	
44	Stay pit excavation	Per Pit	359.31	0.00%	359.31	538.97	
45	Erection of stay with stone /RCC stay plate and stay binding and fitting of stay clamps etc. and filling with earth and proper ramming thereof complete	Per Stay	767.09	0.00%	767.09	767.09	
46	Concreting of stay with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per Stay (7.5 cft)	2,105.55		2,105.55	2,105.55	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022 Calculation: (INR



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					Normal Soil	Hard Soil	
							4428.8 per mtr3) x 0.0283 (conversion factor for mtr3 to cft) x [cft]
47	Fixing & fitting of line DP Channel	Set	409.05	0.00%	409.05	409.05	
48	Fixing & fitting of cross bracing in DP	Per cross bracing	278.95	0.00%	278.95	278.95	
49	Fitting of pin insulator on bracket on single pole	Per Pole	110.74	0.00%	110.74	110.74	
50	Painting of Pole (with material) - Including scrubbing of old paint, applying 2 coats of aluminum paint over primer, and painting all the metal parts of the structure	Per M	126.70	0.00%	126.70	126.70	

Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisions shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.



24. AB Cable overhead line Labour Cost Analysis

Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
A	B	C	D	E	$F = E*(1+E)$	$G = F*1.5$	H
1	Survey and investigation including pegging	Per route Km.	2,214.74	0.00%	2,214.74	2,214.74	
2	Pole pit excavation (for 400 KG W.L 9 mtr. PSC pole)	Per Pit	383.90	0.00%	383.90	575.84	
3	Erection of Pole						
	(a) Single PSC Pole 400 KG W.L (9 mtr.)	Pole	620.13	0.00%	620.13	620.13	
	(b) Double PSC Pole 400 KG W.L (9 mtr.)	Per DP	1,232.86	0.00%	1,232.86	1,232.86	
	(c) Tri PSC Pole 400 KG W.L (9 mtr.)	Per TP	1,860.39	0.00%	1,860.39	1,860.39	
	(d) Four PSC Pole 400 KG W.L (9 mtr.)	Per FP	2,480.53	0.00%	2,480.53	2,480.53	
4	a) Filling of half depth of Pole pit with Jhama chips/stone chips and proper ramming after filling with earth in case of PSC Pole (stone/Jhama chips to be supplied by the contractor)	Per Pole Pit	553.69	0.00%	553.69	553.69	
	+						
	b) Filling of Pole pit with earth in layers pouring water in each layer and ramming the earth properly as per standard practice of the Nigam.	Per Pole Pit	144.19	0.00%	144.19	144.19	
	(a+b) OR c						
	c) Concreting and top muffing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with	Per 20 cft	2,123.43		2,123.43	2,123.43	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	cost of screening, shuttering, mixing, placing the mixuture in position, vibrating, striking, curing, taxes and royalty all complete)						
5	Pole pit excavation (for 200 KG W.L 8 mtr. PSC pole)	Per Pit	383.90	0.00%	383.90	575.84	
6	Erection of Single PSC pole 200 KG W.L (8 mtr.)	Per Pole	551.23	0.00%	551.23	551.23	
7	a) Filling of half depth of Pole pit with Jhama chips/stone chips and proper ramming after filling with earth in case of PSC Pole/Stone /Jhama chips to be supplied by the contractor	Per Pole Pit	553.69	0.00%	553.69	553.69	
	+						
	b) Filling of Pole pit with earth in layers pouring water in each layer and ramming the earth properly as per standard practice of the Nigam.	Per Pole Pit	144.19	0.00%	144.19	144.19	
	(a+b) OR c						
	c) Concreting and top muffing of support with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixuture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 20 cft	2,123.43		2,123.43	2,123.43	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
8	Stay Pit Excavation	Per Pit	259.53	0.00%	259.53	259.53	
9	Erection of Stay with stone / RCC Stay plate Binding of Stay wire fitting of Stay	Per Stay	332.21	0.00%	332.21	332.21	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	clamps and "GUY" Insulator as required.						
10	Concreting of stay with 1:4:8 mixture (including cost of approved quality of stone chips 20mm to 6mm size graded, clean coarse sand of F.M 2.5 to 3 grade and cement concrete along with cost of screening, shuttering, mixing, placing the mixture in position, vibrating, striking, curing, taxes and royalty all complete)	Per 5 cft	530.86		530.86	530.86	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
11	Fitting of Pre insulated mid span joint suitable for AB cable upto 50 sq. mm.	Each	107.69	0.00%	107.69	107.69	
12	Fitting of Pre insulated mid span joint suitable for AB cable above 50 sq. mm.	Each	134.62	0.00%	134.62	134.62	
13	Laying and stringing of AB cable complete with all accessories (dead end clamp with eyehook, suspension clamp with eyehook, Stain fitting, Guy strip dead end, LT connectors, piercing connectors, satellite connectors, distribution/ service connection box, etc) as per requirement of the site:						
	11 KV XLPE HT AB Cable 3Cx185mm ² +240mm ² bare messenger (2700 kg/km)	Per KM	61,469.96	0.00%	61,469.96	61,469.96	
	11 KV XLPE HT AB Cable 3Cx95mm ² +80mm ² bare messenger (2250 kg/km)	Per KM	51,224.96	0.00%	51,224.96	51,224.96	
	11 KV XLPE HT AB Cable 3Cx70mm ² +70mm ² bare messenger (1900 kg/km)	Per KM	43,256.64	0.00%	43,256.64	43,256.64	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	11 KV XLPE HT AB Cable 3Cx50mm ² +70mm ² bare messenger (1630 kg/km)	Per KM	37,109.64	0.00%	37,109.64	37,109.64	
	11 KV XLPE HT AB Cable 3Cx35mm ² +70mm ² bare messenger (1450 kg/km)	Per KM	33,011.64	0.00%	33,011.64	33,011.64	
	LT XLPE AB Cable 3Cx120+70mm ² (1430 kg/km)	Per KM	32,556.31	0.00%	32,556.31	32,556.31	
	LT XLPE AB Cable 3Cx95+70mm ² (1180 kg/km)	Per KM	28,913.65	0.00%	28,913.65	28,913.65	
	LT XLPE AB Cable 3Cx50+35mm ² (1270 kg/km)	Per KM	26,864.65	0.00%	26,864.65	26,864.65	
	LT XLPE AB Cable 3Cx35+25mm ² (802 kg/km)	Per KM	18,258.85	0.00%	18,258.85	18,258.85	
	LT XLPE AB Cable 3Cx16+25mm ² (610 kg/km)	Per KM	13,887.66	0.00%	13,887.66	13,887.66	
14	Fixing of and installation of AB Cable accessories (for Maintenance activities)						
	Flxing of Suspension Clamp / Dead end Clamp	Per Pole	90.52	0.00%	90.52	90.52	
	Installation of insulating piercing connector for main to Street light. Main 16- 95 sq mm, Tap 1.5 - 10 sqmm (EP95)	Per No.	87.49	0.00%	87.49	87.49	
	Installation of insulating piercing connector for main to service line. Main 16- 95 sq mm, Tap 4 - 35 sqmm (P2X95)	Per No.	124.75	0.00%	124.75	124.75	
	Installation of insulating piercing connector for main to service line. Main 25- 95 sq mm, Tap 25 - 95 sqmm (P3X95)	Per No.	124.75	0.00%	124.75	124.75	



Sl. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
	Installation of insulating piercing connector for main to service line. Main 50- 150 sq mm, Tap 4 - 35 sqmm (P4X150)	Per No.	124.75	0.00%	124.75	124.75	
	Installation of Anchor Clamp 25 - 95 sq mm insulated messenger with braket	Per No.	249.50	0.00%	249.50	249.50	
	Fixing of universal hook	Per No.	186.32	0.00%	186.32	186.32	
	Pole clamp - 145 X 95 mm	Per No.	311.07	0.00%	311.07	311.07	
	Earthing including fixing of GI Pipe and wire as per direction of Engineer I/C (GI Pipe and wire to be supplied by Nigam)	Per earthing	575.85	0.00%	575.85	575.85	
	11 KV AB Cable T-joint installation for 3 - core	Per No.	1,676.86	0.00%	1,676.86	1,676.86	
	11 KV AB Cable Straight through joint installation for 3 - core	Per No.	1,341.49	0.00%	1,341.49	1,341.49	
	Surge Arrestor for ABC	Per No.	173.36	0.00%	173.36	173.36	
	Ground connection for Messenger wire	Per No.	42.12	0.00%	42.12	42.12	



25. 33 kV DP suspension labour

S. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
A	B	C	D	E	F = E*(1+E)	G = F*1.5	H
1	Survey and investigation including pegging	Per route Km.	2,214.74	0.00%	2,214.74	2,214.74	
2	Pole pit excavation (for 52/60 kg 13 mtrs. Rail Pole)	Per Pit	557.88	0.00%	557.88	836.83	
3	Erection of Pole (Rail Pole 60 kg 13 mtrs.)	Per Pole	1,844.74	0.00%	1,844.74	1,844.74	
4	Top channel for Rail Pole 60 kg 13 mtrs.	Set	409.04	0.00%	409.04	409.04	
5	Laying out and sagging of Conductor Including mid jointing wherever necessary for the three phases of Panther (232 sq.mm.) Conductor with 5% sag	Per route Km.	39,764.94	0.00%	39,764.94	39,764.94	
6	Insulator with Hardware for 232 sq.mm. ACSR Panther conductor						
	Single Suspension fittings with 3 Nos. 70KN insulators and Hardware.	Per Set	62.75	0.00%	62.75	62.75	
	Single tension fittings with 3 Nos. 70KN insulator and hardware	Per Set	62.75	0.00%	62.75	62.75	
7	Accessories for 232 sq.mm. ACSR Panther conductor						
	Fixing of Mid span compression joint	Nos.	588.28	0.00%	588.28	588.28	
	Fixing of Repair Sleeves	Nos.	100.85	0.00%	100.85	100.85	
	Fixing of PG clamp	Nos.	302.55	0.00%	302.55	302.55	
	Fixing of Anti climbing devices	Nos.	1,260.60	0.00%	1,260.60	1,260.60	



S. No.	Description of item of Work	Unit	Existing Rate as per Cost Data Book 2023-24 (in INR) (Excl. GST)	As per Cost data Committee, Labour rates remain same as previously approved Cost data Book 2023-24 (No Increment)	New Labor rate as per Cost Data Committee (in INR) (Excl. GST)		Remarks/ Comments
					Normal Soil	Hard Soil	
8	Earthing including fixing of GI Pipe and wire as per direction of Engineer I/C (GI Pipe and wire to be supplied by Nigam)	Set	888.19	0.00%	888.19	1,332.28	
9	Foundation of 60kg/mtr ,13 mtr long rail pole DP structures including excavation concreting, back filling and copping [2x{(600x600x1200mm concreting and 300x300x450 mm copping)}]=.945 cubic meter complete for one DP]	Per DP	3,545.3		3,545.3	5,317.9	Ref: Building Construction Department (Govt. of Jharkhand) w.e.f. 28th July 2022
10	Concreting of stays for above DPs including excavation concreting, back filling etc. [per stay 600x600x1200 mm for one stay]	Per DP	1,620.7		1,620.7	2,431.1	





PSS COSTING

26. New 33/11 KV PSS with 1x10 MVA Power T/F with two 33 KV incoming and Six 11 KV outgoing.

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV Lightening Arrester (30KV,10KA Class II, station type)(1set=3nos)	Nos.	6	18,900	1,13,400
2	Structure for 33kV Lightening Arrestor [Galvanized]	Set	2	41,258	82,515
3	33 KV Isolator 400 Amp, 3 Phase, with Earth Switch	Set	2	30,743	61,485
4	Gantry Column, Girder structures for 33/11 KV PSS for single Transformer [Galvanized]	Set	2	57,101	1,14,201
5	'A' structures for top mounted AB switch on 33 KV Bus [Galvanized]	Set	1	41,258	41,258
6	'A' structures for top mounted AB switch on 11 KV Bus [Galvanized]	Set	4	38,392	1,53,567
7	33 KV/110V P.T Class 1.0 with 100VA Burden	Set	2	13,845	27,690
8	Structure for 33 KV PT [Galvanized]	Set	4	41,258	1,65,031
9	ACSR Panther Conductor (232 sq. mm)	KMs	1	1,92,270	1,92,270
10	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	18	497	8,946
11	33 kV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	36	566	20,376
12	33 KV Isolator 400 Amp, 3 Phase, with Earth Switch	Set	2	30,743	61,485
13	Structure for 33 KV Isolator [Galvanized]	Set	2	19,791	39,582
14	Structure for 11 KV Isolator [Galvanized]	Set	4	19,791	79,164
15	33 KV Post Insulator 10 KN (Polymer)	Set	1	956	956
16	Structure for Post Insulator for 33 KV [Galvanized]	Set	1	4,958	4,958
17	Aluminum pipe 40 mm dia	Mtrs.	100	457	45,684
18	Aluminum pipe connector	Nos.	150	295	44,250
19	33 KV VCB, 1250 Amp., Outdoor Type, 26.3 KA for 1 sec rupturing capacity, with CR panel, & C.T. Ratio 1200-600-300/1-1A, 2 Core, 15VA, 5P10 for protection, Accuracy 0.5, 10VA for metering. PT 33KV / 110V, Accuracy class 0.5, VA Burden 50VA, with metering system in Panel with numeric Relay annunciator	Set	3	8,91,368	26,74,105
20	33/11 KV Power Transformer 10 MVA Copper Wound, CRGO Core (on load tap changer)	Nos.	1	78,07,043	78,07,043
21	Earthing complete (Conventional) for Power Transformer	Nos.	1	22,823	22,823
22	11 KV XLPE Cable 3 Core 300mm ² (Armored)	Mtrs.	30	1,735	52,038
23	11 KV VCB, Outdoor type, 630 A, 25 KA for 3 sec. rupturing capacity with C&R Panel. CT 600-300/5-5A or 400-200/5-5A, 2 Core,15VA, 5P10 for protection, Accuracy 0.5, 10VA for metering. P.T. 11 KV/110V, Accuracy class 0.5, 30 VA	Nos.	7	4,87,623	34,13,362



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
24	11 KV XLPE Cable 3 Core 185mm ² (Armoured)	Mtrs.	100	1,183	1,18,266
25	11 KV 3-core heat shrinkable Indoor Cable Jointing/termination kit 300 mm ²	Set	2	4,602	9,204
26	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 300 mm ²	Set	2	4,602	9,204
27	11 KV 3-core heat shrinkable Indoor Cable Jointing/termination kit 120-185 mm ²	Set	6	1,949	11,697
28	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 120-185 mm ²	Set	6	1,955	11,728
29	415V AC Power Distribution Board	Set	1	1,05,952	1,05,952
30	30V DC Distribution Board	Set	1	48,419	48,419
31	Earthing G.I.Strip (65x6)mm ²	KG	60	99	5,947
32	Rubber mat along length of pannel	Nos.	4	3,643	14,571
33	30 V 80 AH Battery Charging unit complete with battery and stand	Set	1	75,537	75,537
34	Rail piece 44.64Kg/m 6.92 meter long for power transformer	Mtr	4	4,631	18,525
35	2.5 mm ² copper 2 core control cable (Armoured)	Mtrs.	600	113	67,968
36	2.5 mm ² copper 4 core control cable (Armoured)	Mtrs.	1300	179	2,33,045
37	2.5 mm ² copper 6 core control cable (Armoured)	Mtrs.	600	236	1,41,600
38	2.5 mm ² copper 12 core control cable (Armoured)	Mtrs.	600	378	2,26,560
39	Fully automatic Capacitor bank with automatic control panel, isolator, indoor type suitable Vacuum Circuit Breaker, mounting structures etc as required as per technical specifications, drawings, scope of the works of following capacities: (Banks in Muilptle of 600 KVAR as per Specification)-3600 KVAR	Set	1	17,24,272	17,24,272
40	Aluminium binding wire	KG	10	337	3,368
41	GI Wire No. 6/8/10	KG	24	94	2,248
42	M S Nuts & Bolts of different size	KG	75	90	6,726
43	Adhesive Insulation Tape	KG	20	315	6,302
44	Al paint	Ltrs.	75	356	26,733
45	Red oxide paint	Ltrs.	150	340	50,939
46	'A' Structures for 11 KV Take off with top mounted AB Switch and provision of Lightening Arrester [Galvanized]	Set	4	41,258	1,65,031
47	400 watt/250 V HPSV Lamp fitting complete for 33/11 KV PSS Yard lighting	Set	12	6,435	77,223
48	Steel Tubular Pole (SP-28) of 9 meter	No.	6	8,846	53,078
A	Sub Total (in INR)				1,84,40,336
B	Sundries Charges including nut bolts, paint etc. (in INR)		@	3%	5,53,210
C	Contingency Charges (in INR)		@	3%	5,53,210
D	Store Charges (in INR)		@	3%	5,53,210



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
E	Transportation Cost (in INR)	@		4%	7,37,613
F	T & P Cost (in INR)	@		2%	3,68,807
G	Overhead Cost (in INR)	@		10%	18,44,034
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)			Normal Soil	33,41,900
				Hard Soil	41,82,914
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)			Normal Soil	2,63,92,320
				Hard Soil	2,72,33,333



27. New 33/11 KV PSS with 2x5 MVA Power T/F with One 33 KV incoming, one 33 KV outgoing and four 11 KV outgoing

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV Lightening Arrester (30KV,10KA Class II, station type)(1set=3nos)	Set	4	18,900	75,600
2	Structure for 33kV Lightening Arrestor [Galvanized]	Set	4	41,258	1,65,031
3	33 KV Isolator 630 Amp, 3 Phase, without Earth Switch	Set	2	29,732	59,465
4	33 KV Isolator 630 Amp, 3 Phase, with Earth Switch	Set	5	32,158	1,60,789
5	Structure for 33 KV Isolator [Galvanized]	Set	7	19,791	1,38,538
6	Gantry Column, Girder structures for 33/11 KV PSS for single Transformer [Galvanized]	Set	2	57,101	1,14,201
7	33 KV/110V P.T Class 1.0 with 100VA Burden	Set	2	13,845	27,690
8	Structure for 33 KV PT [Galvanized]	Set	2	41,258	82,516
9	ACSR Panther Conductor (232 sq. mm)	KMs	1	1,92,270	1,92,270
10	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	18	497	8,946
11	33 kV B&S type Disc Insulator (Polymer Type) 90 KN with H/W fitting	Set	12	756	9,068
12	11 KV Isolator 400 Amp, 3 Phase, without Earth Switch	Set	10	16,413	1,64,128
13	Structure for 11 KV Isolator [Galvanized]	Set	10	19,791	1,97,911
14	33 KV Post Insulator 10 KN (Polymer)	Set	2	956	1,912
15	Structure for Post Insulator for 33 KV [Galvanized]	Set	2	4,958	9,916
16	Aluminium pipe 40 mm dia	Mtrs.	100	457	45,684
17	Aluminium pipe connector	Nos.	150	295	44,250
18	33 KV VCB, 1250 Amp., Outdoor Type, 26.3 KA for 1 sec rupturing capacity , with CR pannel, & C.T. Ratio 1200-600-300/1-1A, 2 Core, 15VA, 5P10 for protection, Accuracy 0.5, 10VA for metering. PT 33KV / 110V, Accuracy class 0.5, VA Burden 50VA, with metering system in Panel with numeric Relay annunciator	Set	4	8,91,368	35,65,474
19	33/11 KV Power Transformer 05 MVA Copper Wound, CRGO Core (off load tap changer)	Nos.	2	41,67,760	83,35,520
20	11 KV XLPE Cable 3 Core 240 mm2 (Armoured)	Mtrs.	60	1,483	89,005
21	11 KV VCB, Outdoor type, 630 A, 25 KA for 3 sec. rupturing capacity with C&R Panel. CT 600-300/5-5A or 400-200/5-5A, 2 Core,15VA, 5P10 for protection, Accuracy 0.5, 10VA for metering. P.T. 11 KV/110V, Accuracy class 0.5, 30 VA	Nos.	9	4,87,623	43,88,609
22	11 KV 3-core heat shrinkable Indoor Cable Jointing/termination kit 240 mm2	Set	1	1,949	1,949



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
23	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 240 mm ²	Set	1	1,955	1,955
24	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 95-50 mm ²	Set	3	1,955	5,864
25	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 95-150 mm ²	Set	3	2,737	8,211
26	11 KV XLPE Cable 3 Core 95mm ² (Armoured)	Mtrs.	75	886	66,473
27	415V AC Power Distribution Board	Set	1	1,05,952	1,05,952
28	30V DC Distribution Board	Set	1	48,419	48,419
29	Earthing G.I.Strip (65x6)mm ²	KG	60	99	5,947
30	Rubber mat along length of pannel	Nos.	8	3,643	29,141
31	30 V 80 AH Battery Charging unit complete with battery and stand	Set	1	75,537	75,537
32	Rail piece 44.64Kg/m 6.92 meter long for power transformer	Mtr	13.8	4,631	63,912
33	2.5 mm ² copper 2 core control cable (Armored)	Mtrs.	600	113	67,968
34	2.5 mm ² copper 4 core control cable (Armored)	Mtrs.	1300	179	2,33,045
35	2.5 mm ² copper 6 core control cable (Armored)	Mtrs.	600	236	1,41,600
36	2.5 mm ² copper 12 core control cable (Armored)	Mtrs.	600	378	2,26,560
37	Fully automatic Capacitor bank with automatic control panel, isolator, indoor type suitable Vacuum Circuit Breaker, mounting structures etc as required as per technical specifications, drawings, scope of the works of following capacities: (Banks in Muultiple of 600 KVAR as per Specification)-3600 KVAR	Set	1	17,24,272	17,24,272
38	Aluminum binding wire	KG	20	337	6,736
39	GI Wire No. 8	KG	24	94	2,248
40	Adhesive Insulation Tape	KG	20	315	6,302
41	Al paint	Ltrs.	80	356	28,515
42	Red oxide paint	Ltrs.	150	340	50,939
43	'A' Structures for 11 KV Take off with top mounted AB Switch and provision of Lightening Arrester [Galvanized]	Set	3	41,258	1,23,774
44	400 watt/250 V HPSV Lamp fitting complete for 33/11 KV PSS Yard lightning	Set	12	6,435	77,223
45	Steel Tubular Pole (SP-28) of 9 meter	No.	12	8,846	1,06,157
A	Sub Total (in INR)				2,10,85,221
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		6,32,557
C	Contingencies Charges (in INR)	@	3%		6,32,557
D	Store Charges (in INR)	@	3%		6,32,557
E	Transportation Cost (in INR)	@	4%		8,43,409
F	T & P Cost (in INR)	@	2%		4,21,704
G	Overhead Cost (in INR)	@	10%		21,08,522



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)			Normal Soil	34,98,296
				Hard Soil	43,82,313
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)			Normal Soil	2,98,54,823
				Hard Soil	3,07,38,839



A vertical utility pole stands in the center, with several power lines extending from it. Five birds are perched on the lines: one on the top line, one on the second line, one on the third line, one on the fourth line, and one on the fifth line. The background is a warm, orange-hued sky with a bright sun in the lower right corner. The title "NETWORK LAYING COSTING" is written in bold red capital letters across the middle of the image.

NETWORK LAYING COSTING

28. 1 KM 33KV Overhead DP suspension line with 232 sq. mm. Panther Conductor on 13-meter 60kg/mtr Rail pole

S.No	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Rail Pole 60 kgs 13 meter	Nos.	26	54,920	14,27,920.83
2	ACSR Panther Conductor (232 sq. mm)	KMs	3.15	1,92,270	6,05,649.42
3	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Set	48	2,327	1,11,678.72
4	Suspension Hardware suitable for Panther Conductor	Nos.	60	2,450	1,46,997.90
5	Tension Hardware suitable for Panther Conductor	Nos.	18	1,256	22,603.02
6	Mid span compression Joints suitable for ACSR Panther conductor	Nos.	6.0	475	2,849.81
7	Repairing Sleeve suitable for ACSR Panther conductor	Nos.	6.0	603	3,617.88
8	P G clamp for 200 sq mm conductor	Nos.	18	324	5,832.08
9	33 KV Cross bracing for DP Channel[NON GALVANIZED] (64.3 Kgs.)	set	13	5,076	65,987.62
10	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	26	326	8,477.10
11	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	52	438	22,751.35
12	Spike Earthing made of 20mm GI solid Rod	Each	26	656	17,061.34
13	Earth clamp for earth wire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	26	157	4,075.53
14	GI Wire No. 6/8/10	KG	65	94	6,087.90
15	GI Base Plate for 33KV (500x500x10 mm) Avg weight 19.6kg/plate	Nos.	26	1,754	45,601.27
16	Anticlimbing Device(Barbed wire) 2x12 SWG	Nos.	26.0	81	2,106.00
17	Danger Board 33 kV/ 11 kV/ LT	Nos.	24	162	3,883.95
A	Sub Total (in INR)				25,03,181.72
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		75,095.45
C	Contingency Charges (in INR)	@	3%		75,095.45
D	Store Charges (in INR)	@	3%		75,095.45
E	Transportation Cost (in INR)	@	4%		1,00,127.27
F	T & P Cost (in INR)	@	2%		50,063.63
G	Overhead Cost (in INR)	@	10%		2,50,318.17
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			2,92,671.86
		Hard Soil			3,33,604.15
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			34,21,649.01
		Hard Soil			34,62,581.30



29. 1 KM 33KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 232 sq mm (Panther) Conductor With 50 Mtr Average Span with 1 Cut Point DP

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Rail Pole 60 kgs 13 meter	Nos.	20	54,920	10,98,400.64
2	ACSR Panther Conductor (232 sq. mm)	Kms.	3.15	1,92,270	6,05,649.42
3	33 kv Pole Top Bracket 65x65x6 mm [GALVANIZED] (3.58 Kgs.)	Nos.	18	312	5,611.69
4	Back clamp (50x6 mm) for 60kg Rail Pole[GALVANIZED] (3.2 Kgs.)	Nos.	18	279	5,016.04
5	33kv V Cross Arm for (100x50x6 mm)[GALVANIZED] (19.7 Kgs.)	Nos.	18	1,716	30,879.99
6	Back clamp (50x6 mm) for 60kg Rail Pole[NON GALVANIZED] (3.2 Kgs.)	Nos.	18	253	4,547.06
7	Support Clamp for V Cross Arm for 60kg Rail Pole[GALVANIZED] (1.6 Kgs. each)	set	18	279	5,016.04
8	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	57	497	28,329.91
9	33 kV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	6	566	3,396.00
10	GI stay set complete for D/s/s (1900x 20mm) with staywire 7/10 SWG and Guy insulator	Set	8	1,357	10,856.00
11	Angle/side Stay Clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
12	P G clamp for 200 sq mm conductor	Nos.	12	324	3,888.05
13	Aluminium binding wire	KG	10	337	3,368.19
14	GI Wire No. 6/8/10	KG	50	94	4,683.00
15	GI Base Plate for 33KV (500x500x10 mm) Avg weight 19.6kg/plate	Nos.	20	1,754	35,077.90
16	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	60	81	4,860.00
17	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Set(1set=2 no)	1	2,327	2,326.64
18	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Pair	2	392	783.76
19	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Pair	2	392	783.76
20	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	set	1	5,600	5,599.50
21	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	4	326	1,304.17



22	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	4	438	1,750.10
23	Spike Earthing made of 20mm GI solid Rod	Each	20	656	13,124.11
24	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	20	157	3,135.02
25	Danger Board 33 kV/ 11 kV/ LT	Nos.	20	162	3,236.62
A	Sub Total (in INR)				18,82,961.22
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		56,488.84
C	Contingencies Charges (in INR)	@	3%		56,488.84
D	Store Charges (in INR)	@	3%		56,488.84
E	Transportation Cost (in INR)	@	4%		75,318.45
F	T & P Cost (in INR)	@	2%		37,659.22
G	Overhead Cost (in INR)	@	10%		1,88,296.12
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			3,26,958.97
		Hard Soil			3,42,856.89
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		26,80,660.50
			Hard Soil		26,96,558.42



30. 1 KM 33KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 150 sq mm (Wolf) Conductor With 50 Mtr Average Span with 1 Cut Point DP

S.No	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Rail Pole 60 kgs 13 meter	Nos.	20	54,920	10,98,400.64
2	ACSR Wolf Conductor (150 sq. mm)	Kms.	3.15	1,71,647	5,40,687.76
3	33 kv Pole Top Bracket 65x65x6 mm [GALVANIZED] (3.58 Kgs.)	Nos.	18	312	5,611.69
4	Back clamp (50x6 mm) for 60kg Rail Pole[GALVANIZED] (3.2 Kgs.)	Nos.	18	279	5,016.04
5	33kv V Cross Arm for (100x50x6 mm)[GALVANIZED] (19.7 Kgs.)	Nos.	18	1,716	30,879.99
6	Back clamp (50x6 mm) for 60kg Rail Pole[NON GALVANIZED] (3.2 Kgs.)	Nos.	18	253	4,547.06
7	Support Clamp for V Cross Arm for 60kg Rail Pole[GALVANIZED] (1.6 Kgs. each)	set	18	279	5,016.04
8	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	57	497	28,329.91
9	33 kv B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	6	566	3,396.00
10	GI stay set complete for D/s/s (1900x 20mm) with staywire 7/10 SWG and Guy insulator	Set	8	1,357	10,856.00
11	Angle/side Stay Clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
12	P G clamp for 232/150 sq mm conductor	Nos.	12	324	3,888.05
13	Aluminium binding wire	KG	10	337	3,368.19
14	GI Wire No. 6/8/10	KG	50	94	4,683.00
15	GI Base Plate for 33KV (500x500x10 mm) Avg weight 19.6kg/plate	Nos.	20	1,754	35,077.90
16	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	60	81	4,860.00
17	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Set(1set=2 no)	1	2,327	2,326.64
18	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Pair	2	392	783.76
19	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Pair	2	392	783.76
20	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	set	1	5,600	5,599.50
21	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	4	326	1,304.17



22	Support clamp for Cross Bracing for 60kg Rail Pole [GALVANIZED] (2.5 Kgs. each)	Pair	4	438	1,750.10
23	Spike Earthing made of 20mm GI solid Rod	Each	20	656	13,124.11
24	Earth clamp for earth wire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	20	157	3,135.02
25	Danger Board 33 kV/ 11 kV/ LT	Nos.	20	162	3,236.62
A	Sub Total (in INR)				18,17,999.57
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		54,539.99
C	Contingencies Charges (in INR)	@	3%		54,539.99
D	Store Charges (in INR)	@	3%		54,539.99
E	Transportation Cost (in INR)	@	4%		72,719.98
F	T & P Cost (in INR)	@	2%		36,359.99
G	Overhead Cost (in INR)	@	10%		1,81,799.96
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			2,95,098.05
		Hard Soil			3,10,995.97
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			25,67,597.51
		Hard Soil			25,83,495.43



31. 1 KM 33KV Overhead Line on 13 mtr Rail Pole with Polymer insulator & 100 Sqmm (Dog) Conductor with 50 Mtr Average Span with 1 Cut Point DP

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Rail Pole 60 kgs 13 meters	Nos.	20	54,920	10,98,400.64
2	ACSR Dog conductor (100 sq. mm)	Kms.	3.15	1,12,225	3,53,509.47
3	33 kv Pole Top Bracket 65x65x6 mm [GALVANIZED] (3.58 Kgs.)	Nos.	18	312	5,611.69
4	Back clamp (50x6 mm) for 60kg Rail Pole[GALVANIZED] (3.2 Kgs.)	Nos.	18	279	5,016.04
5	33kv V Cross Arm for (100x50x6 mm) [GALVANIZED] (19.7 Kgs.)	Nos.	18	1,716	30,879.99
6	Back clamp (50x6 mm) for 60kg Rail Pole[NON GALVANIZED] (3.2 Kgs.)	Nos.	18	253	4,547.06
7	Support Clamp for V Cross Arm for 60kg Rail Pole [GALVANIZED] (1.6 Kgs. each)	set	18	279	5,016.04
8	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	57	497	28,329.91
9	33 kV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	6	566	3,396.00
10	GI stay set complete for D/s/s (1900x 20mm) with stay wire 7/10 SWG and Guy insulator	Set	8	1,357	10,856.00
11	Angle/side Stay Clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
12	P G clamp for 80/100mm2	Nos.	12	212	2,548.80
13	Aluminum binding wire	KG	10	337	3,368.19
14	GI Wire No. 6/8/10	KG	50	94	4,683.00
15	GI Base Plate for 33KV (500x500x10 mm) Avg weight 19.6kg/plate	Nos.	20	1,754	35,077.90
16	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	60	81	4,860.00
17	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Set(1set=2 no)	1	2,327	2,326.64
18	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Pair	2	392	783.76
19	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Pair	2	392	783.76



20	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	set	1	5,600	5,599.50
21	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	4	326	1,304.17
22	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	4	438	1,750.10
23	Spike Earthing made of 20mm GI solid Rod	Each	20	656	13,124.11
24	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	20	157	3,135.02
25	Danger Board 33 kV/ 11 kV/ LT	Nos.	20	162	3,236.62
A	Sub Total (in INR)				16,29,482.02
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		48,884.46
C	Contingency Charges (in INR)	@	3%		48,884.46
D	Store Charges (in INR)	@	3%		48,884.46
E	Transportation Cost (in INR)	@	4%		65,179.28
F	T & P Cost (in INR)	@	2%		32,589.64
G	Overhead Cost (in INR)	@	10%		1,62,948.20
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			2,52,317.08
		Hard Soil			2,68,215.00
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			22,89,169.61
		Hard Soil			23,05,067.53



32. 1 KM 33KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 100 sq mm Covered Conductor With 40 Mtr Average Span with 1 Cut Point DP (Center) and 2 Nos. DP (Starting & End)

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Rail Pole 60 Kgs 13 meter	Nos.	27	67260	1816020.00
2	100 sq. mm ACSR covered conductor with XLPE insulation for 33 KV	Kms.	3.09	909080	2809057.20
3	33 kv Pole Top Bracket 65x65x6 mm [GALVANIZED] (3.58 Kgs.)	Nos.	23	297	6831.00
4	33kv V Cross Arm for (100x50x6 mm)[GALVANIZED] (19.7 Kgs.)	Nos.	23	1634	37582.00
5	Back clamp (50x6 mm) for 60kg Rail Pole[NON GALVANIZED] (3.2 Kgs.)	Nos.	23	253	5819.00
6	Back clamp (50x6 mm) for 60kg Rail Pole[GALVANIZED] (3.2 Kgs.)	Nos.	23	265	6095.00
7	Support Clamp for V Cross Arm for 60kg Rail pole[GALVANIZED] (1.6 Kgs. each)	set	23	280.02	6440.46
8	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	69	497	34293.00
9	33 kV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	18	566	10188.00
10	33 KV 3 pin type, 3 Phase, AB switch 630 Amp (Porcelain Type)	Set	1	42583.84	42583.84
11	support clamp for AB switch(for pipe and handle)	set	1	245	245.00
12	33 KV Lightning Arrester (30KV,10KA Class II, station type)(1set=3nos)	Set	1	18900	18900.00
13	GI stay set complete for D/s/s (1900x 20mm) with staywire 7/10 SWG and Guy insulator	Set	12	1357	16284.00
14	Angle/side Stay Clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (1.92 Kgs.)	Set	12	159	1908.00
15	Insulation piercing connector (Covered to covered) (100 sqmm & 50 sq mm)	Each	12	4397.38	52768.56
16	Suspension Ties (100 sqmm & 50 sqmm)	Each	90	2990.22	269119.80
17	GI Wire No. 6/8/10	KG	20	94	1880.00
18	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Set(1set=2 no)	2	4533	9066.00
19	Clamp for Top Channel 50x6 mm flat for 60kg Rail Pole[GALVANIZED] (2.6 Kgs.)	Pair	4	232.27	929.08



20	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Pair	2	394	788.00
21	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	set	2	5334	10668.00
22	Clamp for Cross Bracing Set of 2 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. Each)	Set	4	328	1312.00
23	Support clamp for Cross Bracing for 60kg Rail Pole [GALVANIZED] (2.5 Kgs. each)	Pair	4	438	1752.00
24	Spike Earthing made of 20mm GI solid Rod	Each	27	656	17712.00
25	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	27	149	4023.00
26	Mid span Joint (100 sqmm & 50 sq mm)	Each	2	2532.89	5065.78
27	33 KV Termination kit for Covered conductor	Set	2	5249.23	10498.46
28	Dead end clamp with eyehook	Set	12	538.08	6456.96
29	Tension Clamp (Wedge Type) (100 sq mm & 50 sq mm)	Nos.	6	3429.96	20579.76
30	Red Oxide Paint	Ltr	54	339.59	18337.86
31	Aluminum Paint	Ltr	40.5	356.44	14435.82
32	Anticlimbing Device (Barbed wire) 2x12 SWG	KG	81	81	6561.00
33	Danger Board 33 kV/ 11 kV/ LT	Nos.	27	161.83	4369.41
34	MS Nuts & Bolts of different size	KG	93	89.68	8340.24
A	Sub Total (in INR)				5276910.23
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		158307.31
C	Contingency Charges (in INR)	@	3%		158307.31
D	Store Charges (in INR)	@	3%		158307.31
E	Transportation Cost (in INR)	@	4%		211076.41
F	T & P Cost (in INR)	@	2%		105538.20
G	Overhead Cost (in INR)	@	10%		527691.02
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			319796.93
		Hard Soil			340358.94
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		6915934.72
			Hard Soil		6936496.73



33. 1 KM 33kV HT Trenchless Double circuit cable laying 3 core, Armored 400 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV HT XLPE Cable 3 core 400 sq mm (Armored)	Mtr	2200	2,845	62,59,864.60
2	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 400 mm ²	Set	6	18,000	1,08,000.02
3	33 KV 3-core heat shrinkable Outdoor type Cable termination kit for 400mm ²	Set	8	7,516	60,127.99
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	2000	737	14,74,030.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
7	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
8	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Each	6	2,327	13,959.84
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	9	497	4,473.14
11	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	Set	3	5,600	16,798.50
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanized)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earth wire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (150 Sqmm ACSR Conductor)	Mtr	5	172	858.23
20	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				83,89,145
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		2,51,674
C	Contingencies Charges (in INR)	@	3%		2,51,674
D	Store Charges (in INR)	@	3%		2,51,674
E	Transportation Cost (in INR)	@	4%		3,35,566
F	T & P Cost (in INR)	@	2%		1,67,783
G	Overhead Cost (in INR)	@	10%		8,38,915
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			33,54,678
		Hard Soil			49,17,779
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		1,38,41,110
			Hard Soil		1,54,04,210



34. 1 KM 33kV HT Trenchless Double circuit cable laying 3 core, Armored 300 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV HT XLPE Cable 3 Core 300mm ² (Armoured)	Mtr	2200	2,455	54,00,121.32
2	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 300 mm ²	Set	6	14,343	86,057.40
3	33 KV 3-core heat shrinkable Outdoor type Cable termination kit for 300 mm ²	Set	8	5,302	42,416.00
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	2000	737	14,74,030.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
7	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
8	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Each	6	2,327	13,959.84
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	9	497	4,473.14
11	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	Set	3	5,600	16,798.50
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (150 Sqmm ACSR Conductor)	Mtr	20	172	3,432.94
20	Danger Board 33 kV/ 11 kV/ LT	Nos.	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				74,92,322
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		2,24,770
C	Contingencies Charges (in INR)	@	3%		2,24,770
D	Store Charges (in INR)	@	3%		2,24,770
E	Transportation Cost (in INR)	@	4%		2,99,693
F	T & P Cost (in INR)	@	2%		1,49,846
G	Overhead Cost (in INR)	@	10%		7,49,232
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			33,54,678
		Hard Soil			49,17,779
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		1,27,20,081
			Hard Soil		1,42,83,181



35. 1 KM 33kV HT Trenchless Double circuit cable laying 3 core, Armored 185 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV HT XLPE Cable 3 Core 185mm ² (Armoured)	Mtr	2200	2,325	51,15,418.00
2	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 185 mm ²	Set	6	14,185	85,111.56
3	33 KV 3-core heat shrinkable Out door type Cable termination kit for 185 mm ²	Set	8	5,249	41,993.84
4	HDPE Pipe - 110 mm /4" PE 63 grade	Mtr	2000	382	7,63,106.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
7	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
8	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Each	6	2,327	13,959.84
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	9	497	4,473.14
11	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	Set	3	5,600	16,798.50
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (150 Sqmm ACSR Conductor)	Mtr	20	172	3,432.94
20	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				64,95,327
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,94,860
C	Contingencies Charges (in INR)	@	3%		1,94,860
D	Store Charges (in INR)	@	3%		1,94,860
E	Transportation Cost (in INR)	@	4%		2,59,813
F	T & P Cost (in INR)	@	2%		1,29,907
G	Overhead Cost (in INR)	@	10%		6,49,533
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			27,74,885
		Hard Soil			40,52,251
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			1,08,94,044
		Hard Soil			1,21,71,410



36.1 KM 33kV HT Trenchless Single circuit cable laying 3 core, Armored 400 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV HT XLPE Cable 3 core 400 sq mm (Armored)	Mtr	1200	2,845	34,14,471.60
2	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 400 mm ²	Set	3	18,000	54,000.01
3	33 KV 3-core heat shrinkable Outdoor type Cable termination kit for 400mm ²	Set	4	7,516	30,063.99
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	1000	737	7,37,015.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	25	1,551	38,781.09
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	8	218	1,741.00
7	Rail Pole 60 kgs 13 meters	Nos.	6	54,920	3,29,520.19
8	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Each	6	2,327	13,959.84
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole [GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	9	497	4,473.14
11	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	Set	3	5,600	16,798.50
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole [GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole [GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole [GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earthwire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (150 Sqmm ACSR Conductor)	Mtr	10	172	1,716.47
20	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				46,83,010
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,40,490
C	Contingencies Charges (in INR)	@	3%		1,40,490
D	Store Charges (in INR)	@	3%		1,40,490
E	Transportation Cost (in INR)	@	4%		1,87,320
F	T & P Cost (in INR)	@	2%		93,660
G	Overhead Cost (in INR)	@	10%		4,68,301
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			17,02,439
		Hard Soil			24,84,807
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		75,56,201
			Hard Soil		83,38,569



37.1 KM 33kV HT Trenchless Single circuit cable laying 3 core, Armored 300 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV HT XLPE Cable 3 Core 300mm ² (Armored)	Mtr	1200	2,455	29,45,520.72
2	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 300 mm ²	Set	3	14,343	43,028.70
3	33 KV 3-core heat shrinkable Outdoor type Cable termination kit for 300 mm ²	Set	4	5,302	21,208.00
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	1000	737	7,37,015.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	25	1,551	38,781.09
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	8	218	1,741.00
7	Rail Pole 60 kgs 13 meters	Nos.	6	54,920	3,29,520.19
8	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Each	6	2,327	13,959.84
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	9	497	4,473.14
11	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	Set	3	5,600	16,798.50
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole [GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole [GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (150 Sqmm ACSR Conductor)	Mtr	10	172	1,716.47
20	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				41,94,231
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,25,827
C	Contingencies Charges (in INR)	@	3%		1,25,827
D	Store Charges (in INR)	@	3%		1,25,827
E	Transportation Cost (in INR)	@	4%		1,67,769
F	T & P Cost (in INR)	@	2%		83,885
G	Overhead Cost (in INR)	@	10%		4,19,423
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			17,02,439
		Hard Soil			24,84,807
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			69,45,229
		Hard Soil			77,27,597



38.1 KM 33kV HT Trenchless Single circuit cable laying 3 core, Armored 185 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV HT XLPE Cable 3 Core 185mm ² (Armored)	Mtr	1200	2,325	27,90,228.00
2	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 185 mm ²	Set	3	14,185	42,555.78
3	33 KV 3-core heat shrinkable Outdoor type Cable termination kit for 185 mm ²	Set	4	5,249	20,996.92
4	HDPE Pipe - 110 mm /4" PE 63 grade	Mtr	1000	382	3,81,553.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	25	1,551	38,781.09
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	8	218	1,741.00
7	Rail Pole 60 kgs 13 meters	Nos.	6	54,920	3,29,520.19
8	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Each	6	2,327	13,959.84
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	9	497	4,473.14
11	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	Set	3	5,600	16,798.50
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole [GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole [GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanized)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole [GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earth wire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (150 Sqmm ACSR Conductor)	Mtr	10	172	1,716.47
20	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				36,82,793
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,10,484
C	Contingencies Charges (in INR)	@	3%		1,10,484
D	Store Charges (in INR)	@	3%		1,10,484
E	Transportation Cost (in INR)	@	4%		1,47,312
F	T & P Cost (in INR)	@	2%		73,656
G	Overhead Cost (in INR)	@	10%		3,68,279
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			14,12,164
		Hard Soil			20,51,665
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			60,15,655
		Hard Soil			66,55,156



39.1 KM 33kV HT Double circuit cable laying in Trench 3 core, armored 185 sq mm (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV HT XLPE Cable 3 Core 185mm ² (Armored)	Mtr	2200	2,325	51,15,418.00
2	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 185 mm ²	Set	3	14,185	42,555.78
3	33 KV 3-core heat shrinkable Outdoor type Cable termination kit for 185 mm ²	Set	8	5,249	41,993.84
4	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
5	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
6	Rail Pole 60 kgs 13 meters	Nos.	6	54,920	3,29,520.19
7	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Each	6	2,327	13,959.84
8	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole [GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
9	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	9	497	4,473.14
10	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	Set	3	5,600	16,798.50
11	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole [GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
12	Support clamp for Cross Bracing for 60kg Rail Pole [GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
13	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanized)	Set	8	1,167	9,336.21
14	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole [GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
15	GI Wire No. 6/8/10	KG	15	94	1,404.90
16	Earth clamp for earthwire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
17	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
18	Jumpering wire (150 Sqmm ACSR Conductor)	Mtr	20	172	3,432.94
19	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
20	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				56,89,665
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,70,690
C	Contingencies Charges (in INR)	@	3%		1,70,690
D	Store Charges (in INR)	@	3%		1,70,690
E	Transportation Cost (in INR)	@	4%		2,27,587
F	T & P Cost (in INR)	@	2%		1,13,793
G	Overhead Cost (in INR)	@	10%		5,68,967
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			9,60,916
		Hard Soil			10,13,879
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			80,72,997
		Hard Soil			81,25,961



40.1 KM 33kV HT Double circuit cable laying in Trench 3 core, armored 300 sq mm (1 riser in middle and cut point/riser at each end).

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	33 KV HT XLPE Cable 3 Core 300mm ² (Armored)	Mtr	2200	2,455	54,00,121.32
2	33 KV 3-core XLPE UG cable Heat shrinkable straight through Jointing kit suitable for 300 mm ²	Set	3	14,343	43,028.70
3	33 KV 3-core heat shrinkable Outdoor type Cable termination kit for 300 mm ²	Set	8	5,302	42,416.00
4	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
5	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
6	Rail Pole 60 kgs 13 meters	Nos.	6	54,920	3,29,520.19
7	33kv D P Channel (100x50x6 mm) 1.3 Meter Long [GALVANIZED] (26.9 Kgs.)	Each	6	2,327	13,959.84
8	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole [GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
9	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	9	497	4,473.14
10	33kv Cross Bracing for D P Structure (50x50x6) [GALVANIZED] (64.3 Kgs.)	Set	3	5,600	16,798.50
11	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole [GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
12	Support clamp for Cross Bracing for 60kg Rail Pole [GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
13	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanized)	Set	8	1,167	9,336.21
14	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole [GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
15	GI Wire No. 6/8/10	KG	15	94	1,404.90
16	Earth clamp for earth wire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
17	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
18	Jumpering wire (150 Sqmm ACSR Conductor)	Mtr	20	172	3,432.94
19	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
20	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				59,75,264
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,79,258
C	Contingencies Charges (in INR)	@	3%		1,79,258
D	Store Charges (in INR)	@	3%		1,79,258
E	Transportation Cost (in INR)	@	4%		2,39,011
F	T & P Cost (in INR)	@	2%		1,19,505
G	Overhead Cost (in INR)	@	10%		5,97,526
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			9,69,241
		Hard Soil			10,22,204
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			84,38,320
		Hard Soil			84,91,283



41. Re-conductoring and Renovation of 1 KM 33KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 150 sq mm (Wolf) Conductor With 5% Average Span

S.No	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Rail Pole 60 kgs 13 meters	Nos.	12.00	54920.03	659040.38
2	ACSR Wolf Conductor (150 sq. mm)	Kms.	3.15	171646.91	540687.76
3	33 kv Pole Top Bracket 65x65x6 mm [GALVANIZED] (3.58 Kgs.)	Nos.	12.00	311.71	3740.53
4	Back clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (3.2 Kgs.)	Nos.	12.00	278.67	3344.03
5	33kv V Cross Arm for (100x50x6 mm) [GALVANIZED] (19.7 Kgs.)	Nos.	12.00	1715.55	20586.66
6	Back clamp (50x6 mm) for 60kg Rail Pole [NON-GALVANIZED] (3.2 Kgs.)	Nos.	12.00	252.61	3031.37
7	Support Clamp for V Cross Arm for 60kg Rail Pole [GALVANIZED] (1.6 Kgs. each)	set	12.00	278.67	3344.03
8	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	36.00	497.02	17892.58
9	33 kV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3.00	566.00	1698.00
10	Angle/side Stay Clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (1.92 Kgs.)	Set	5.00	167.20	836.01
11	P G clamp for 232/150 sq mm conductor	Nos.	7.00	324.00	2268.03
12	Aluminum binding wire	KG	6.00	336.82	2020.92
13	GI Wire No. 6/8/10	KG	30.00	93.66	2809.80
14	GI Base Plate for 33KV (500x500x10 mm) Avg weight 19.6kg/plate	Nos.	12.00	1753.90	21046.74
15	Anticlimbing Device (Barbed wire) 2x12 SWG	KG	36.00	81.00	2916.00
16	Clamp for Cross Bracing Set of 2 pair for 60kg Rail Pole [GALVANIZED] (1.872 Kgs. each)	Set	2.00	326.04	652.08
17	Support clamp for Cross Bracing for 60kg Rail Pole [GALVANIZED] (2.5 Kgs. each)	Pair	2.00	437.53	875.05
18	Spike Earthing made of 20mm GI solid Rod	Each	12.00	656.21	7874.46
19	Earth clamp for earth wire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	12.00	156.75	1881.01
20	Danger Board 33 kV/ 11 kV/ LT	Nos.	12.00	161.83	1941.97
A	Sub Total (in INR)				12,98,487.41
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		38,954.62
C	Contingencies Charges (in INR)	@	3%		38,954.62
D	Store Charges (in INR)	@	3%		38,954.62
E	Transportation Cost (in INR)	@	4%		51,939.50
F	T & P Cost (in INR)	@	2%		25,969.75
G	Overhead Cost (in INR)	@	10%		1,29,848.74
H			Normal Soil		4,46,991.94



	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Hard Soil	4,64,344.78
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil	20,70,101.21
		Hard Soil	20,87,454.05



42. Re-conductoring and Renovation of 1 KM 33KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 100 sq mm (Dog) Conductor With 5% Average Span

S.No	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Rail Pole 60 kgs 13 meter	Nos.	12	54920.032	6,59,040.38
2	ACSR Dog conductor (100 sq. mm)	Kms.	3.15	112225.2284	3,53,509.47
3	33 kv Pole Top Bracket 65x65x6 mm [GALVANIZED] (3.58 Kgs.)	Nos.	12	311.7106	3,740.53
4	Back clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (3.2 Kgs.)	Nos.	12	278.6688	3,344.03
5	33kv V Cross Arm for (100x50x6 mm) [GALVANIZED] (19.7 Kgs.)	Nos.	12	1715.5548	20,586.66
6	Back clamp (50x6 mm) for 60kg Rail Pole [NON GALVANIZED] (3.2 Kgs.)	Nos.	12	252.6144	3,031.37
7	Support Clamp for V Cross Arm for 60kg Rail Pole [GALVANIZED] (1.6 Kgs. each)	set	12	278.6688	3,344.03
8	33 KV Polymer Pin Insulators 10 KN with GI PIN and nut & washer	Nos.	36	497.016	17,892.58
9	33 kV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	7	566	3,962.00
10	Angle/side Stay Clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (1.92 Kgs.)	Set	5	167.20128	836.01
11	P G clamp for 80/100mm ²	Nos.	7	212.4	1,486.80
12	Aluminium binding wire	KG	6.0	336.8192	2,020.92
13	GI Wire No. 6/8/10	KG	30.0	93.66	2,809.80
14	GI Base Plate for 33KV (500x500x10 mm) Avg weight 19.6kg/plate	Nos.	12	1753.895	21,046.74
15	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	36.0	81	2,916.00
16	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	2	326.042496	652.08
17	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	2	437.526	875.05
18	Spike Earthing made of 20mm GI solid Rod	Each	12	656.205375	7,874.46
19	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	12	156.7512	1,881.01
20	Danger Board 33 kV/ 11 kV/ LT	Nos.	12	161.8311	1,941.97
A	Sub Total (in INR)				11,12,791.89
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		33,383.76
C	Contingencies Charges (in INR)	@	3%		33,383.76
D	Store Charges (in INR)	@	3%		33,383.76
E	Transportation Cost (in INR)	@	4%		44,511.68
F	T & P Cost (in INR)	@	2%		22,255.84
G	Overhead Cost (in INR)	@	10%		1,11,279.19
H			Normal Soil		3,61,430.00



	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Hard Soil	3,78,782.86
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil	17,52,419.86
		Hard Soil	17,69,772.72



43.1 KM 11KV Overhead Line on 9 mtr PSC Pole with Polymer insulators & 100 sq. mm. (Dog) Conductor With 50 Mtr Average Span with 1 Cut Point DP (Center)

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	22	4,496	98,907.60
2	ACSR Dog conductor (100 sq. mm)	Kms.	3.09	1,12,225	3,46,775.96
3	11kv Pole Top Bracket 50x8 mm [GALVANIZED] (2.2 Kgs.)	Nos.	20	192	3,831.70
4	11kv V Cross Arm (100x50x6 mm), [GALVANIZED] (16 Kgs.)	Nos.	20	1,393	27,866.88
5	Back clamp (50x8 mm) for V-XRM & Top Bracket for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Nos.	20	261	5,225.04
6	Support Clamp for V Cross Arm for 9 mtr 400kg PSC pole[GALVANIZED] (1.2 Kgs. each)	set	20	209	4,180.03
7	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	63	334	21,038.22
8	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	12	531	6,372.00
9	11 KV 3 pin type, 3 Phase, AB switch 630 Amp (Porcelain Type)	Set	1	20,916	20,915.50
10	support clamp for AB switch(for pipe and handle)	set	1	245	245.01
11	Lightening Arrestor (9kV 5KA) Line type	Set	1	1,109	1,109.08
12	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	12	1,288	15,453.63
13	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	12	167	2,006.42
14	P G clamp for 100mm ²	Nos.	12	212	2,548.80
15	Aluminium binding wire	KG	11	337	3,705.01
16	GI Wire No. 6/8/10	KG	55	94	5,151.30
17	Stone Base plate for 11 KV, DSS, LT	Nos.	22	249	5,470.19
18	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	44	81	3,564.00
19	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Set(1set=2 no)	1	3,597	3,596.57
20	Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Pair	2	261	522.50
21	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Set(1set=2 no)	1	3,597	3,596.57
22	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.5 Kgs. each)	Pair	2	261	522.50
23	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	set	1	4,502	4,502.24
24	Clamp for Cross Bracing Set of 1 pair for 9 mtr 400kg PSC Pole[GALVANIZED] (1.3 Kgs.)	Set	4	226	905.67
25	Support clamp for Cross Bracing for 9 mtr 400kg PSC Pole[GALVANIZED] (2.33 Kgs. each)	Pair	4	408	1,631.10
26	Spike Earthing made of 20mm GI solid Rod	Each	22	656	14,436.52
27	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	22	157	3,448.53



28	Danger Board 33 kV/ 11 kV/ LT	Nos.	22	162	3,560.28
A	Sub Total (in INR)				6,11,088.86
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		18,332.67
C	Contingency Charges (in INR)	@	3%		18,332.67
D	Store Charges (in INR)	@	3%		18,332.67
E	Transportation Cost (in INR)	@	4%		24,443.55
F	T & P Cost (in INR)	@	2%		12,221.78
G	Overhead Cost (in INR)	@	10%		61,108.89
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,86,788.79
		Hard Soil			1,99,501.84
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			9,50,649.86
		Hard Soil			9,63,362.91



44. 1 KM 11KV Overhead Line on 13 mtr Rail Pole with Polymer insulators & 50 sq mm Covered Conductor With 40 Mtr Average Span with 1 Cut Point DP (Center) and 2 Nos. DP (Starting & End)

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	Rail Pole 60 Kgs 13 meter	Nos.	27	67260.00	1816020.00
2	50 sq. mm ACSR covered conductor with XLPE insulation for 11 KV	Kms.	3.09	315300.00	974277.00
3	11kv Pole Top Bracket 50x8 mm [GALVANIZED] (2.2 Kgs.)	Nos.	23	198.00	4554.00
4	11kv V Cross Arm (100x50x6 mm), [GALVANIZED] (16 Kgs.)	Nos.	23	1327.00	30521.00
5	Back clamp (50x8 mm) for V-XRM & Top Bracket for 60kg Rail Pole[GALVANIZED] (3 Kgs.)	Nos.	23	265.00	6095.00
6	Back clamp (50x8 mm) for V-XRM & Top Bracket for 60kg Rail Pole[NON GALVANIZED] (3 Kgs.)	Nos.	23	253.00	5819.00
7	Support Clamp for V Cross Arm for 60kg Rail pole[GALVANIZED] (1.6 Kgs. each)	set	23	280.02	6440.46
8	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	69	334.00	23046.00
9	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	18	531.00	9558.00
10	11 KV 3 pin type, 3 Phase, AB switch 630 Amp (Porcelain Type)	Set	1	20916.00	20916.00
11	support clamp for AB switch(for pipe and handle)	set	1	245.00	245.00
12	Lightening Arrestor (9kV 5KA) Line type	Set	1	1109.00	1109.00
13	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	12	1288.00	15456.00
14	Angle/side Stay Clamp (50x6 mm) for 60kg Rail Pole [GALVANIZED] (1.92 Kgs.)	Set	12	159.00	1908.00
15	Insulation piercing connector (Covered to covered) (100 sqmm & 50 sq mm)	Each	12	4397.38	52768.56
16	Suspension Ties (100 sqmm & 50 sqmm)	Each	90	2990.22	269119.80
17	GI Wire No. 6/8/10	KG	20	94.00	1880.00
18	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Set(1set=2 no)	2	3426.00	6852.00
19	Clamp for Top Channel 50x6 mm flat for 60kg Rail Pole[GALVANIZED] (2.6 Kgs.)	Pair	4	232.27	929.08
20	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Pair	2	394.00	788.00
21	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	set	2	4289.00	8578.00
22	Clamp for Cross Bracing Set of 2 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. Each)	Set	4	328.00	1312.00
23	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	4	438.00	1752.00
24	Spike Earthing made of 20mm GI solid Rod	Each	27	656.00	17712.00
25	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	27	149.00	4023.00
26	Mid span Joint (100 sqmm & 50 sq mm)	Each	2	2532.89	5065.78



27	11 KV Termination kit for Covered conductor	Set	2	1954.71	3909.42
28	Dead end clamp with eyehook	Set	12	538.08	6456.96
29	Tension Clamp (Wedge Type) (100 sq mm & 50 sq mm)	Nos.	6	3429.96	20579.76
30	Red Oxide Paint	Ltr	54	339.59	18337.86
31	Aluminium Paint	Ltr	40.5	356.44	14435.82
32	Stone Base plate for 11 KV, DSS, LT	Nos.	22	249.00	5478.00
33	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	54	81.00	4374.00
34	Danger Board 33 kV/ 11 kV/ LT	Nos.	27	161.83	4369.41
35	MS Nuts & Bolts of different size	KG	93	89.68	8340.24
A	Sub Total (in INR)				3373026.15
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		101190.78
C	Contingency Charges (in INR)	@	3%		101190.78
D	Store Charges (in INR)	@	3%		101190.78
E	Transportation Cost (in INR)	@	4%		134921.05
F	T & P Cost (in INR)	@	2%		67460.52
G	Overhead Cost (in INR)	@	10%		337302.62
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			309374.70
		Hard Soil			326835.97
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			4525657.39
		Hard Soil			4543118.66



45.1 KM 11KV Overhead Line on 9 mtr PSC Pole with Polymer insulators & 80 sq mm (Raccoon) Conductor With 50 Mtr Average Span with 1 Cut Point DP (Center)

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	22	4,496	98,907.60
2	ACSR Raccoon conductor (80 sq. mm)	Kms.	3.09	76,045	2,34,978.45
3	11kv Pole Top Bracket 50x8 mm [GALVANIZED] (2.2 Kgs.)	Nos.	20	192	3,831.70
4	11kv V Cross Arm (100x50x6 mm), [GALVANIZED] (16 Kgs.)	Nos.	20	1,393	27,866.88
5	Back clamp (50x8 mm) for V-XRM & Top Bracket for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Nos.	20	261	5,225.04
6	Support Clamp for V Cross Arm for 9 mtr 400kg PSC pole[GALVANIZED] (1.2 Kgs. each)	set	20	209	4,180.03
7	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	63	334	21,038.22
8	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	12	531	6,372.00
9	11 KV 3 pin type, 3 Phase, AB switch 630 Amp (Porcelain Type)	Set	1	20,916	20,915.50
10	support clamp for AB switch(for pipe and handle)	set	1	245	245.01
11	Lightening Arrestor (9kV 5KA) Line type	Set	1	1,109	1,109.08
12	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	12	1,288	15,453.63
13	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	12	167	2,006.42
14	P G clamp for 80mm ²	Nos.	12	185	2,220.29
15	Aluminum binding wire	KG	11	337	3,705.01
16	GI Wire No. 6/8/10	KG	55	94	5,151.30
17	Stone Base plate for 11 KV, DSS, LT	Nos.	22	249	5,470.19
18	Anticlimbing Device (Barbed wire) 2x12 SWG	KG	44	81	3,564.00
19	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Set(1set=2 no)	1	3,597	3,596.57
20	Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Pair	2	261	522.50
21	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Set(1set=2 no)	1	3,597	3,596.57
22	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.5 Kgs. each)	Pair	2	261	522.50
23	11 KV Cross bracing for D P Structure [GALVANIZED] (51.7 Kgs.)	set	1	4,502	4,502.24
24	Clamp for Cross Bracing Set of 1 pair for 9 mtr 400kg PSC Pole[GALVANIZED] (1.3 Kgs.)	Set	4	226	905.67



25	Support clamp for Cross Bracing for 9 mtr 400kg PSC Pole[GALVANIZED] (2.33 Kgs. each)	Pair	4	408	1,631.10
26	Spike Earthing made of 20mm GI solid Rod	Each	22	656	14,436.52
27	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	22	157	3,448.53
28	Danger Board 33 kV/ 11 kV/ LT	Nos.	22	162	3,560.28
A	Sub Total (in INR)				4,98,962.84
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		14,968.89
C	Contingencies Charges (in INR)	@	3%		14,968.89
D	Store Charges (in INR)	@	3%		14,968.89
E	Transportation Cost (in INR)	@	4%		19,958.51
F	T & P Cost (in INR)	@	2%		9,979.26
G	Overhead Cost (in INR)	@	10%		49,896.28
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,33,589.17
		Hard Soil			1,46,302.22
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			7,57,292.72
		Hard Soil			7,70,005.77



46.1 KM 11KV Overhead Line on 9 mtr PSC Pole with Polymer insulators & 50 sq. mm. (Rabbit) Conductor With 50 Mtr Average Span with 1 Cut Point DP (Center)

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	22	4,496	98,907.60
2	ACSR Rabbit Conductor (50 mm ²)	Kms.	3.09	59,767	1,84,680.03
3	11kv Pole Top Bracket 50x8 mm [GALVANIZED] (2.2 Kgs.)	Nos.	20	192	3,831.70
4	11kv V Cross Arm (75x40x6 mm), [GALVANIZED] (14.6 Kgs.)	Nos.	20	1,271	25,428.53
5	Back clamp (50x8 mm) for V-XRM & Top Bracket for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Nos.	20	261	5,225.04
6	Support Clamp for V Cross Arm for 9 mtr 400kg PSC pole[GALVANIZED] (1.2 Kgs. each)	set	20	209	4,180.03
7	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	63	334	21,038.22
8	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	12	531	6,372.00
9	11 KV 3 pin type, 3 Phase, AB switch 630 Amp (Porcelain Type)	Set	1	20,916	20,915.50
10	support clamp for AB switch(for pipe and handle)	set	1	245	245.01
11	Lightening Arrestor (9kV 5KA) Line type	Set	1	1,109	1,109.08
12	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	12	1,288	15,453.63
13	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	12	167	2,006.42
14	P G Clamps for 34/55mm ²	Nos.	12	45	535.20
15	Aluminium binding wire	KG	11	337	3,705.01
16	GI Wire No. 6/8/10	KG	55	94	5,151.30
17	Stone Base plate for 11 KV, DSS, LT	Nos.	22	249	5,470.19
18	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	44	81	3,564.00
19	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Set(1set=2 no)	1	3,597	3,596.57
20	Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Pair	2	261	522.50
21	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Set(1set=2 no)	1	3,597	3,596.57
22	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.5 Kgs. each)	Pair	2	261	522.50
23	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	set	1	4,502	4,502.24
24	Clamp for Cross Bracing Set of 1 pair for 9 mtr 400kg PSC Pole[GALVANIZED] (1.3 Kgs.)	Set	4	226	905.67
25	Support clamp for Cross Bracing for 9 mtr 400kg PSC Pole[GALVANIZED] (2.33 Kgs. each)	Pair	4	408	1,631.10
26	Spike Earthing made of 20mm GI solid Rod	Each	22	656	14,436.52
27	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	22	157	3,448.53



28	Danger Board 33 kV/ 11 kV/ LT	Nos.	22	162	3,560.28
A	Sub Total (in INR)				4,46,931.52
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		13,336.23
C	Contingency Charges (in INR)	@	3%		13,336.23
D	Store Charges (in INR)	@	3%		13,336.23
E	Transportation Cost (in INR)	@	4%		17,781.64
F	T & P Cost (in INR)	@	2%		8,890.82
G	Overhead Cost (in INR)	@	10%		44,454.10
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,53,077.11
		Hard Soil			1,65,790.16
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			7,08,753.34
		Hard Soil			7,21,466.39



47.1 KM 11KV Overhead Line on 8 mtr PSC Pole with Polymer insulators & 34 sq mm (Weasel) Conductor With 50 Mtr Average Span with 1 Cut Point DP (Center)

S. No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 200 KG W.L (8 mtr.)	Nos.	22	2,634	57,938.76
2	ACSR Weasel conductor (34 sq. mm)	Kms.	3.09	32,096	99,176.64
3	11kv Pole Top Bracket 50x8 mm [GALVANIZED] (2.2 Kgs.)	Nos.	20	192	3,831.70
4	11kv V Cross Arm (75x40x6 mm), [GALVANIZED] (14.6 Kgs.)	Nos.	20	1,271	25,428.53
5	Back clamp (50x6 mm) for V-cross arm [GALVANIZED] (1.3 Kgs.)	Nos.	20	113	2,264.18
6	Back clamp (50x6 mm) for Top Bracket [GALVANIZED] (1.3 Kgs.)	Nos.	20	113	2,264.18
7	Support Clamp for V Cross Arm for 8 mtr 200kg PSC pole [GALVANIZED] (1.08 Kgs. each)	set	20	188	3,762.03
8	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	63	334	21,038.22
9	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	12	531	6,372.00
10	11 KV 3 pin type, 3 Phase, AB switch 400 Amp (Porcelain Type)	Set	1	16,638	16,638.00
11	support clamp for AB switch (for pipe and handle)	set	1	245	245.01
12	Lightening Arrestor (9kV 5KA) Line type	Set	1	1,109	1,109.08
13	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	12	1,288	15,453.63
14	Angle/side Stay Clamp (50x6 mm) for 8 mtr 200kg PSC Pole[GALVANIZED] (1.08 Kgs.)	Set	12	94	1,128.61
15	P G Clamps for 34/55mm ²	Nos.	12	45	535.20
16	Aluminium binding wire	KG	11	337	3,705.01
17	GI Wire No. 6/8/10	KG	55	94	5,151.30
18	Stone Base plate for 11 KV, DSS, LT	Nos.	22	249	5,470.19
19	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	44	81	3,564.00
20	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Set(1set=2 no)	1	3,597	3,596.57
21	Support Clamp for Top Channel 50x6 mm flat for 8 mtr 200kg PSC Pole [GALVANIZED] ((1.08 Kgs. each))	Pair	2	179	358.36
22	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) for LA and AB switch	Set(1set=2 no)	1	3,426	3,426.00
23	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 8 mtr 200kg PSC Pole[GALVANIZED] (1.1 Kgs. each)	Pair	2	192	383.17
24	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	set	1	4,502	4,502.24
25	Clamp for Cross Bracing Set of 1 pair for 9 mtr 400kg PSC Pole[GALVANIZED] (1.3 Kgs.)	Set	2	226	452.84
26	Support clamp for Cross Bracing for 9 mtr 400kg PSC Pole[GALVANIZED] (2.33 Kgs. each)	Pair	4	408	1,631.10
27	Spike Earthing made of 20mm GI solid Rod	Each	22	656	14,436.52



28	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	22	157	3,448.53
29	Danger Board 33 kV/ 11 kV/ LT	Nos.	22	162	3,560.28
A	Sub Total (in INR)				3,10,871.89
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		9,326.16
C	Contingencies Charges (in INR)	@	3%		9,326.16
D	Store Charges (in INR)	@	3%		9,326.16
E	Transportation Cost (in INR)	@	4%		12,434.88
F	T & P Cost (in INR)	@	2%		6,217.44
G	Overhead Cost (in INR)	@	10%		31,087.19
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,53,266.35
		Hard Soil			1,65,979.40
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			5,41,856.21
		Hard Soil			5,54,569.26



**48.1 KM 11KV Overhead Line on 9 mtr PSC Pole 11 KV XLPE HT AB Cable
3Cx95mm²+80mm² bare messenger**

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	24	4,496	1,07,899.20
2	11 KV XLPE HT AB Cable 3Cx95mm ² +80mm ² bare messenger	Mtrs.	1050	592	6,21,878.88
3	Suspension Clamp Assembly Suitable Upto 70-95 Sqmm bare messenger (Including 1 No. Suspension Clamp with Bracket, 2 Mtr Stainless Steel Strap & 2 Nos. SS buckles)	Nos.	22	378	8,314.47
4	Dead End Clamp Suitable above 70 Sqmm bare messenger (Including 1 No. Dead End Bracket + 1 No. Dead End + 2 Mtr SS Strap + 2 Nos. SS buckle) [Minimum breaking load-15 KN]	Nos.	2	408	816.56
5	Stainless Steel Strip of 20mmX1mmx1000mm with Buckle Clip	Mtrs.	24	58	1,389.38
6	Pole clamp for I hook B type (0.8 Kgs. each)	Pair	24	140	3,360.20
7	Eye Hook	Nos.	24	112	2,690.40
8	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
9	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
10	Buckle for strap	Nos.	24	9	220.90
11	LT Pre insulated mid span joint suitable 95 mm ² Phases	Nos.	3	196	587.64
12	Service main anchor clamp for proper support of service cable	Nos.	20	87	1,734.49
13	GI Wire No. 6/8/10	KG	60	94	5,619.60
14	Earth clamp for earthwire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	24	157	3,762.03
15	25mm dia MS rod 3 m long for earth mat	Set	24	1,024	24,568.33
A	Sub Total (in INR)				7,93,515.89
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		23,805.48
C	Contingency Charges (in INR)	@	3%		23,805.48
D	Store Charges (in INR)	@	3%		23,805.48
E	Transportation Cost (in INR)	@	4%		31,740.64
F	T & P Cost (in INR)	@	2%		15,870.32
G	Overhead Cost (in INR)	@	10%		79,351.59
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,73,364.87
		Hard Soil			1,85,919.99
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			11,65,259.74
		Hard Soil			11,77,814.86



49.1 KM 11KV Overhead Line on 9 mtr PSC Pole 11 KV XLPE HT AB Cable 3Cx50mm²+70mm² bare messenger

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	24	4,496	1,07,899.20
2	11 KV XLPE HT AB Cable 3Cx50mm ² +70mm ² bare messenger	Mtrs.	1050	467	4,90,222.74
3	Suspension Clamp Assembly Suitable Upto 70-95 Sqmm bare messenger (Including 1 No. Suspension Clamp with Bracket, 2 Mtr Stainless Steel Strap & 2 Nos. SS buckles)	Nos.	22	378	8,314.47
4	Dead End Clamp Suitable 50-70 Sqmm bare messenger (Including 1 No. Dead End Bracket + 1 No. Dead End + 2 Mtr SS Strap + 2 Nos. SS buckle) [Minimum breaking load-15 KN]	Nos.	2	425	849.60
5	Stainless Steel Strip of 20mmX1mmX1000mm with Buckle Clip	Mtrs.	24	58	1,389.38
6	Pole clamp for I hook B type (0.8 Kgs. each)	Pair	24	140	3,360.20
7	Eye Hook	Nos.	24	112	2,690.40
6	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
7	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
9	Buckle for strap	Nos.	24	9	220.90
10	LT Pre insulated mid span joint suitable 95 mm ² Phases	Nos.	3	196	587.64
11	Insulation piercing connector branching suitable for T Joints	Nos.	0	243	0.00
12	Service main anchor clamp for proper support of service cable	Nos.	20	87	1,734.49
13	GI Wire No. 6/8/10	KG	60	94	5,619.60
14	Earth clamp for earthwire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	24	157	3,762.03
15	25mm dia MS rod 3 m long for earth mat	Set	24	1,024	24,568.33
A	Sub Total (in INR)				6,61,892.79
B	Sundries Charges including nut bolts, paint etc. (in INR)		@	3%	19,856.78
C	Contingencies Charges (in INR)		@	3%	19,856.78
D	Store Charges (in INR)		@	3%	19,856.78
E	Transportation Cost (in INR)		@	4%	26,475.71
F	T & P Cost (in INR)		@	2%	13,237.86
G	Overhead Cost (in INR)		@	10%	66,189.28
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)		Normal Soil		1,58,463.00
			Hard Soil		1,71,018.12
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		9,85,828.99
			Hard Soil		9,98,384.11



**50.1 KM 11KV Overhead Line on 8 mtr PSC Pole 11 KV XLPE HT AB Cable
3Cx50mm²+70mm² bare messenger**

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 200 KG W.L (8 mtr.)	Nos.	24	2,634	63,205.92
2	11 KV XLPE HT AB Cable 3Cx50mm ² +70mm ² bare messenger	Mtrs.	1050	467	4,90,222.74
3	Suspension Clamp Assembly Suitable Upto 70-95 Sqmm bare messenger (Including 1 No. Suspension Clamp with Bracket, 2 Mtr Stainless Steel Strap & 2 Nos. SS buckles)	Nos.	22	378	8,314.47
4	Dead End Clamp Suitable 50-70 Sqmm bare messenger (Including 1 No. Dead End Bracket + 1 No. Dead End + 2 Mtr SS Strap + 2 Nos. SS buckle) [Minimum breaking load-15 KN]	Nos.	2	425	849.60
5	Stainless Steel Strip of 20mmX1mmX1000mm with Buckle Clip	Mtrs.	24	58	1,389.38
6	Pole clamp for I hook B type (0.8 Kgs. each)	Pair	24	140	3,360.20
7	Eye Hook	Nos.	24	112	2,690.40
6	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
7	Angle/side Stay Clamp (50x6 mm) for 8 mtr 200kg PSC Pole[GALVANIZED] (1.08 Kgs.)	Set	8	94	752.41
9	Buckle for strap	Nos.	24	9	220.90
10	LT Pre insulated mid span joint suitable 95 mm ² Phases	Nos.	3	196	587.64
11	Insulation piercing connector branching suitable for T Joints	Nos.	0	243	0.00
12	Service main anchor clamp for proper support of service cable	Nos.	20	87	1,734.49
13	GI Wire No. 6/8/10	KG	60	94	5,619.60
14	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	24	157	3,762.03
15	25mm dia MS rod 3 m long for earth mat	Set	24	1,024	24,568.33
A	Sub Total (in INR)				6,16,614.31
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		18,498.43
C	Contingencies Charges (in INR)	@	3%		18,498.43
D	Store Charges (in INR)	@	3%		18,498.43
E	Transportation Cost (in INR)	@	4%		24,664.57
F	T & P Cost (in INR)	@	2%		12,332.29
G	Overhead Cost (in INR)	@	10%		61,661.43
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,58,463.00
		Hard Soil			1,71,018.12
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			9,29,230.88
		Hard Soil			9,41,786.00



51.1 KM 11kV HT Trenchless Double circuit cable laying 3 core, Armored 400 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end).

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	11 KV XLPE Cable 3 core 400mm ² (Armored)	Mtr	2200	1,924	42,33,339.37
2	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 400 mm ²	Set	3	4,838	14,514.00
3	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 400 mm ²	Set	8	5,310	42,480.00
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	2000	737	14,74,030.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
7	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
8	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Each	6	3,597	21,579.42
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	9	334	3,005.46
11	11 KV Cross bracing for D P Structure [GALVANIZED] (51.7 Kgs.)	Set	3	4,502	13,506.73
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole [GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole [GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanized)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole [GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earth wire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (100 Sqmm ACSR Conductor)	Mtr	20	112	2,240.00
20	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				62,55,728
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,87,672
C	Contingency Charges (in INR)	@	3%		1,87,672
D	Store Charges (in INR)	@	3%		1,87,672
E	Transportation Cost (in INR)	@	4%		2,50,229
F	T & P Cost (in INR)	@	2%		1,25,115
G	Overhead Cost (in INR)	@	10%		6,25,573
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			33,40,561
		Hard Soil			49,03,661
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			1,11,60,221
		Hard Soil			1,27,23,321



52.1 KM 11kV HT Trenchless Double circuit cable laying 3 core, Armored 300 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	11 KV XLPE Cable 3 Core 300mm ² (Armored)	Mtr	2200	1,735	38,16,120.00
2	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 300 mm ²	Set	3	4,802	14,406.92
3	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 300 mm ²	Set	8	4,602	36,816.00
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	2000	737	14,74,030.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
7	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
8	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Each	6	3,597	21,579.42
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	9	334	3,005.46
11	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	Set	3	4,502	13,506.73
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanized)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earth wire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (100 Sqmm ACSR Conductor)	Mtr	20	112	2,240.00
20	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				58,32,738
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,74,982
C	Contingencies Charges (in INR)	@	3%		1,74,982
D	Store Charges (in INR)	@	3%		1,74,982
E	Transportation Cost (in INR)	@	4%		2,33,310
F	T & P Cost (in INR)	@	2%		1,16,655
G	Overhead Cost (in INR)	@	10%		5,83,274
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			33,14,898
		Hard Soil			48,77,999
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		1,06,05,820
			Hard Soil		1,21,68,921



53.1 KM 11kV HT Trenchless Double circuit cable laying 3 core, Armored 185 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	11 KV XLPE Cable 3 Core 185mm ² (Armoured)	Mtr	2200	1,183	26,01,852.00
2	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 185 mm ²	Set	3	2,737	8,210.99
3	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 120-185 mm ²	Set	8	1,955	15,637.69
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	2000	737	14,74,030.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
7	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
8	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Each	6	3,597	21,579.42
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	9	334	3,005.46
11	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	Set	3	4,502	13,506.73
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (100 Sqmm ACSR Conductor)	Mtr	20	112	2,240.00
20	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				45,91,095
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,37,733
C	Contingency Charges (in INR)	@	3%		1,37,733
D	Store Charges (in INR)	@	3%		1,37,733
E	Transportation Cost (in INR)	@	4%		1,83,644
F	T & P Cost (in INR)	@	2%		91,822
G	Overhead Cost (in INR)	@	10%		4,59,110
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			27,10,069
		Hard Soil			39,87,435
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			84,48,938
		Hard Soil			97,26,304



54. 1 KM 11kV HT Trenchless Single circuit cable laying 3 core, Armored 400 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	11 KV XLPE Cable 3 core 400mm ² (Armoured)	Mtr	1200	1,924	23,09,094.20
2	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 400 mm ²	Set	3	4,838	14,514.00
3	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 400 mm ²	Set	4	5,310	21,240.00
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	1000	737	7,37,015.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	25	1,551	38,781.09
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	8	218	1,741.00
7	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
8	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Each	6	3,597	21,579.42
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	9	334	3,005.46
11	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	Set	3	4,502	13,506.73
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (100 Sqmm ACSR Conductor)	Mtr	10	112	1,120.00
20	Danger Board 33 kV/ 11 kV/ LT	Nos.	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				35,31,586
B	Sundries Charges including nut bolts, paint etc. (in INR)		@	3%	1,05,948
C	Contingencies Charges (in INR)		@	3%	1,05,948
D	Store Charges (in INR)		@	3%	1,05,948
E	Transportation Cost (in INR)		@	4%	1,41,263
F	T & P Cost (in INR)		@	2%	70,632
G	Overhead Cost (in INR)		@	10%	3,53,159
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)		Normal Soil		16,96,499
			Hard Soil		24,78,867
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		61,10,981
			Hard Soil		68,93,349



55. 1 KM 11kV HT Trenchless Single circuit cable laying 3 core, Armored 300 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	11 KV XLPE Cable 3 Core 300mm ² (Armoured)	Mtr	1200	1,735	20,81,520.00
2	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 300 mm ²	Set	3	4,802	14,406.92
3	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 300 mm ²	Set	4	4,602	18,408.00
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	1000	737	7,37,015.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	25	1,551	38,781.09
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	8	218	1,741.00
7	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
8	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Each	6	3,597	21,579.42
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	9	334	3,005.46
11	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	Set	3	4,502	13,506.73
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (100 Sqmm ACSR Conductor)	Mtr	10	112	1,120.00
20	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				33,01,073
B	Sundries Charges including nut bolts, paint etc. (in INR)			@ 3%	99,032
C	Contingencies Charges (in INR)			@ 3%	99,032
D	Store Charges (in INR)			@ 3%	99,032
E	Transportation Cost (in INR)			@ 4%	1,32,043
F	T & P Cost (in INR)			@ 2%	66,021
G	Overhead Cost (in INR)			@ 10%	3,30,107
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)			Normal Soil	16,82,501
				Hard Soil	24,64,869
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)			Normal Soil	58,08,842
				Hard Soil	65,91,210



56. 1 KM 11kV HT Trenchless Single circuit cable laying 3 core, Armored 185 sq mm with HDPE pipe (1 riser in middle and cut point/riser at each end)

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	11 KV XLPE Cable 3 Core 185mm ² (Armored)	Mtr	1200	1,183	14,19,192.00
2	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 185 mm ²	Set	3	2,737	8,210.99
3	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 120-185 mm ²	Set	4	1,955	7,818.84
4	HDPE Pipe - 160 mm /6" PE 63 grade	Mtr	1000	737	7,37,015.00
5	GI Pipe 6" Medium duty (B Class)	Mtr	25	1,551	38,781.09
6	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	8	218	1,741.00
7	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
8	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Each	6	3,597	21,579.42
9	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
10	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	9	334	3,005.46
11	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	Set	3	4,502	13,506.73
12	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
13	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
14	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
15	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
16	GI Wire No. 6/8/10	KG	15	94	1,404.90
17	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
18	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
19	Jumpering wire (100 Sqmm ACSR Conductor)	Mtr	10	112	1,120.00
20	Danger Board 33 kV/ 11 kV/ LT	Nos.	6	162	970.99
21	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				26,21,959
B	Sundries Charges including nut bolts, paint etc. (in INR)			@ 3%	78,659
C	Contingencies Charges (in INR)			@ 3%	78,659
D	Store Charges (in INR)			@ 3%	78,659
E	Transportation Cost (in INR)			@ 4%	1,04,878
F	T & P Cost (in INR)			@ 2%	52,439
G	Overhead Cost (in INR)			@ 10%	2,62,196
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)			Normal Soil	13,78,570
				Hard Soil	20,18,071
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)			Normal Soil	46,56,019
				Hard Soil	52,95,520



57. 1 KM 11kV HT Double circuit cable laying in Trench 3 core, armored 300 sq mm (1 riser in middle and cut point/riser at each end).

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	11 KV XLPE Cable 3 Core 300mm ² (Armored)	Mtr	2200	1,735	38,16,120.00
2	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 300 mm ²	Set	3	4,802	14,406.92
3	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 300 mm ²	Set	8	4,602	36,816.00
4	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
5	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
6	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
7	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Each	6	3,597	21,579.42
8	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
9	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	9	334	3,005.46
10	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	Set	3	4,502	13,506.73
11	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	6	326	1,956.25
12	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
13	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanized)	Set	8	1,167	9,336.21
14	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
15	GI Wire No. 6/8/10	KG	15	94	1,404.90
16	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
17	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
18	Jumpering wire (100 Sqmm ACSR Conductor)	Mtr	20	112	2,240.00
19	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
20	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				43,56,751
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		1,30,703
C	Contingency Charges (in INR)	@	3%		1,30,703
D	Store Charges (in INR)	@	3%		1,30,703
E	Transportation Cost (in INR)	@	4%		1,74,270
F	T & P Cost (in INR)	@	2%		87,135
G	Overhead Cost (in INR)	@	10%		4,35,675
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			9,32,687
		Hard Soil			9,85,651
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			63,78,627
		Hard Soil			64,31,590



58. 1 KM 11kV HT Double circuit cable laying in Trench 3 core, armored 185 sq mm (1 riser in middle and cut point/riser at each end).

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	11 KV XLPE Cable 3 Core 185mm ² (Armored)	Mtr	2200	1,183	26,01,852.00
2	11 KV 3-core heat shrinkable Straight through Cable Jointing kit 185 mm ²	Set	3	2,737	8,210.99
3	11 KV 3-core heat shrinkable Outdoor Cable Jointing/termination kit 120-185 mm ²	Set	8	1,955	15,637.69
4	GI Pipe 6" Medium duty (B Class)	Mtr	50	1,551	77,562.19
5	Clamp for supporting XLPE Cable for Rail pole (Round type with back clamp) 2.5 Kg	Set	16	218	3,482.00
6	Rail Pole 60 kgs 13 meter	Nos.	6	54,920	3,29,520.19
7	11kv D P Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Each	6	3,597	21,579.42
8	D P Channel Support Clamp (50x6 mm) feet (1 pair = 1 set) for 60kg Rail Pole[GALVANIZED] (2.25 Kgs. each)	Each	12	392	4,702.54
9	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	9	334	3,005.46
10	11 KV Cross bracing for D P Structure[GALVANIZED] (51.7 Kgs.)	Set	3	4,502	13,506.73
11	Clamp for Cross Bracing Set of 1 pair for 60kg Rail Pole[GALVANIZED] (1.872 Kgs. each)	Set	12	326	3,912.51
12	Support clamp for Cross Bracing for 60kg Rail Pole[GALVANIZED] (2.5 Kgs. each)	Pair	12	438	5,250.31
13	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
14	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	8	167	1,337.61
15	GI Wire No. 6/8/10	KG	15	94	1,404.90
16	Earth clamp for earth wire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
17	25mm dia MS rod 3 m long for earth mat	Set	6	1,024	6,142.08
18	Jumpering wire (100 Sqmm ACSR Conductor)	Mtr	20	112	2,240.00
19	Danger Board 33 kV/ 11 kV/ LT	Nos	6	162	970.99
20	Route and Joint Indicator	Nos.	20	175	3,492.80
A	Sub Total (in INR)				31,17,065
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		93,512
C	Contingencies Charges (in INR)	@	3%		93,512
D	Store Charges (in INR)	@	3%		93,512
E	Transportation Cost (in INR)	@	4%		1,24,683
F	T & P Cost (in INR)	@	2%		62,341
G	Overhead Cost (in INR)	@	10%		3,11,707
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			8,99,326
		Hard Soil			9,52,290
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		47,95,658
			Hard Soil		48,48,621



59. R&M of 1 KM 11KV Overhead Line on 9 mtr PSC Pole with Polymer insulators & 100 sq mm (Dog) Conductor With 3% Average Span

S.No	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	13	4495.80	58445.40
2	ACSR Dog conductor (100 sq. mm)	Kms.	3.09	112225.23	346775.96
3	11kv Pole Top Bracket 50x8 mm [GALVANIZED] (2.2 Kgs.)	Nos.	13	191.55	2490.20
4	11kv V Cross Arm (100x50x6 mm), [GALVANIZED] (16 Kgs.)	Nos.	13	1393.34	18113.47
5	Back clamp (50x8 mm) for V-XRM & Top Bracket for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Nos.	13	261.25	3396.28
6	Back clamp (50x8 mm) for V-XRM & Top Bracket for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Nos.	13	261.25	3396.28
7	Support Clamp for V Cross Arm for 9 mtr 400kg PSC pole[GALVANIZED] (1.2 Kgs. each)	set	13	209.00	2717.02
8	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	39	333.94	13023.66
9	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	7	531.00	3717.00
10	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	7	1287.80	9014.62
11	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	7	167.20	1170.41
12	P G clamp for 100mm ²	Nos.	7	212.40	1486.80
13	Aluminium binding wire	KG	6.6	336.82	2223.01
14	GI Wire No. 6/8/10	KG	33	93.66	3090.78
15	Stone Base plate for 11 KV, DSS, LT	Nos.	13	248.65	3232.39
16	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	26.4	81.00	2138.40
17	Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Pair	1	261.25	261.25
18	Spike Earthing made of 20mm GI solid Rod	Each	13	656.21	8530.67
19	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	13	156.75	2037.77
20	Danger Board 33 kV/ 11 kV/ LT	Nos.	13	161.83	2103.80
A	Sub Total (in INR)				487365.15
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		14620.95
C	Contingencies Charges (in INR)	@	3%		14620.95
D	Store Charges (in INR)	@	3%		14620.95
E	Transportation Cost (in INR)	@	4%		19494.61
F	T & P Cost (in INR)	@	2%		9747.30
G	Overhead Cost (in INR)	@	10%		48736.52
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			2,55,678.48
		Hard Soil			2,68,155.20
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			864884.92
		Hard Soil			877361.64



60. R&M of 1 KM 11KV Overhead Line on 9 mtr PSC Pole with Polymer insulators & 50 sq mm (Rabbit) Conductor With 3% average Span

S.No	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	13	4495.80	58,445.40
2	ACSR Rabbit Conductor (50 mm ²)	Kms.	3.09	59767.00	1,84,680.03
3	11kv Pole Top Bracket 50x8 mm [GALVANIZED] (2.2 Kgs.)	Nos.	13	191.55	2,490.20
4	11kv V Cross Arm (75x40x6 mm), [GALVANIZED] (14.6 Kgs.)	Nos.	13	1271.43	16,528.54
5	Back clamp (50x8 mm) for V-XRM & Top Bracket for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Nos.	13	261.25	3,396.28
6	Back clamp (50x8 mm) for V-XRM & Top Bracket for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.)	Nos.	13	261.25	3,396.28
7	Support Clamp for V Cross Arm for 9 mtr 400kg PSC pole[GALVANIZED] (1.2 Kgs. each)	set	13	209.00	2,717.02
8	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	39	333.94	13,023.66
9	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	7	531.00	3,717.00
10	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	7	1287.80	9,014.62
11	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Set	7	167.20	1,170.41
12	P G Clamps for 34/55mm ²	Nos.	7	44.60	312.20
13	Aluminium binding wire	KG	6.6	336.82	2,223.01
14	GI Wire No. 6/8/10	KG	33.0	93.66	3,090.78
15	Stone Base plate for 11 KV, DSS, LT	Nos.	13	248.65	3,232.39
16	Anticlimbing Device (Barbed wire) 2x12 SWG	KG	26.4	81.00	2,138.40
17	Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole [GALVANIZED] (3 Kgs.)	Pair	1	261.25	261.25
18	Spike Earthing made of 20mm GI solid Rod	Each	13	656.21	8,530.67
19	Earth clamp for earth wire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	13	156.75	2,037.77
20	Danger Board 33 kV/ 11 kV/ LT	Nos.	13	161.83	2,103.80
A	Sub Total (in INR)				3,22,509.70
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		9,675.29
C	Contingencies Charges (in INR)	@	3%		9,675.29
D	Store Charges (in INR)	@	3%		9,675.29
E	Transportation Cost (in INR)	@	4%		12,900.39
F	T & P Cost (in INR)	@	2%		6,450.19
G	Overhead Cost (in INR)	@	10%		32,250.97
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,88,255.12
		Hard Soil			2,00,731.86



I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil	5,91,392.24
		Hard Soil	6,03,868.98



61.1 KM LT Line of 50 sq mm (Rabbit) conductor with 50 Mtr Average span

S. No	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 200 KG W.L (8 mtr.)	Nos.	25	2,634	65,839.50
2	ACSR Rabbit Conductor (50 mm ²)	KMs	4.2	59,767	2,51,021.40
3	LT Pin insulator with Pin (Porcelain type)	Nos.	100	35	3,492.33
4	LT Angle Bracket (50x50x6 mm) [GALVANIZED]	Set	25	481	12,031.97
5	LT Phase Separator	Set	72	34	2,479.05
6	LT Back clamp (50 x 6 mm) for LT angle [GALVANIZED] (0.55 Kgs. each)	Nos.	25	96	2,406.39
7	LT Stay set complete (1700x16 mm) with stay wire 7/12 SWG	Set	8	920	7,363.20
8	Angle/side Stay Clamp (50x6 mm) for 8 mtr 200kg PSC Pole [GALVANIZED] (1.08 Kgs.)	Pair	8	94	752.41
9	Danger Board 33 kV/ 11 kV/ LT	Nos.	10	162	1,618.31
10	Aluminium binding wire	KG	13	337	4,378.65
11	Stone Base plate for 11 KV, DSS, LT	Nos.	25	249	6,216.13
12	25mm dia MS rod 3 m long for earth mat	Set	8	1,024	8,189.44
13	GI Wire No. 6/8/10	KG	20	94	1,873.20
14	Earth clamp for earthwire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	8	157	1,254.01
15	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	25	81	2,025.00
A	Sub Total (in INR)				3,70,940.98
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		11,128.23
C	Contingencies Charges (in INR)	@	3%		11,128.23
D	Store Charges (in INR)	@	3%		11,128.23
E	Transportation Cost (in INR)	@	4%		14,837.64
F	T & P Cost (in INR)	@	2%		7,418.82
G	Overhead Cost (in INR)	@	10%		37,094.10
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,28,970.40
		Hard Soil			1,37,111.53
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			5,92,646.62
		Hard Soil			6,00,787.75



62.1 KM LT Line of 34 sq mm (Weasel) conductor with 50 Mtr Average span

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 200 KG W.L (8 mtr.)	Nos.	25	2,634	65,839.50
2	ACSR Weasel conductor (34 sq. mm)	KMs	4.2	32,096	1,34,803.20
3	LT Pin insulator with Pin (Porcelain type)	Nos.	100	35	3,492.33
4	LT Angle Bracket (50x50x6 mm) [GALVANIZED]	Set	25	481	12,031.97
5	LT Phase Separator	Set	72	34	2,479.05
6	LT Back clamp (50 x 6 mm) for LT angle [GALVANIZED] (0.55 Kgs. each)	Nos.	25	96	2,406.39
7	LT Stay set complete (1700x16 mm) with stay wire 7/12 SWG	Set	8	920	7,363.20
8	Angle/side Stay Clamp (50x6 mm) for 8 mtr 200kg PSC Pole[GALVANIZED] (1.08 Kgs.)	Pair	8	94	752.41
9	Danger Board 33 kV/ 11 kV/ LT	Nos.	10	162	1,618.31
10	Aluminium binding wire	KG	13	337	4,378.65
11	Stone Base plate for 11 KV, DSS, LT	Nos.	25	249	6,216.13
12	25mm dia MS rod 3 m long for earth mat	Set	8	1,024	8,189.44
13	GI Wire No. 6/8/10	KG	20	94	1,873.20
14	Earth clamp for earthwire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	8	157	1,254.01
15	Anticlimbing Device (Barbed wire) 2x12 SWG	KG	25	81	2,025.00
A	Sub Total (in INR)				2,54,722.78
bB	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		7,641.68
C	Contingencies Charges (in INR)	@	3%		7,641.68
D	Store Charges (in INR)	@	3%		7,641.68
E	Transportation Cost (in INR)	@	4%		10,188.91
F	T & P Cost (in INR)	@	2%		5,094.46
G	Overhead Cost (in INR)	@	10%		25,472.28
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,20,262.48
		Hard Soil			1,28,403.60
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			4,38,665.95
		Hard Soil			4,46,807.07



63.1 KM LT Overhead Line on 8 mtr PSC Pole LT XLPE AB Cable Cx120+1Cx70+1Cx16 mm²

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (incl. GST)	Amount (in INR)
1	PSC Pole 200 KG W.L (8 mtr.)	Nos.	25	2,634	65,839.50
2	LT XLPE AB cable 3Cx120+1Cx70+1Cx16 mm2	Mtrs.	1030	392	4,03,780.19
3	Suspension Clamp Assembly Suitable above 95 Sqmm bare messenger (Including 1 No. Suspension Clamp with Bracket, 2 Mtr Stainless Steel Strap & 2 Nos. SS buckles)	Nos.	23	414	9,517.46
4	Dead End Clamp Suitable above 70 Sqmm bare messenger (Including 1 No. Dead End Bracket + 1 No. Dead End + 2 Mtr SS Strap + 2 Nos. SS buckle) [Minimum breaking load-15 KN]	Nos.	2	408	816.56
5	Stainless Steel Strip of 20mmX1mmx1000mm with Buckle Clip	Mtrs.	15	58	868.36
6	Pole clamp for I hook B type (0.8 Kgs. each)	Pair	25	140	3,500.21
7	Eye Hook	Nos.	25	112	2,802.50
8	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
9	Angle/side Stay Clamp (50x6 mm) for 8 mtr 200kg PSC Pole[GALVANIZED] (1.08 Kgs.)	Set	8	94	752.41
10	LT Pre insulated mid span joint suitable 120 mm2 Phases	Nos.	3	237	709.84
11	LT Pre insulated mid span joint suitable 120 mm2 Phases	Nos.	3	237	709.84
12	Insulation piercing connector-Type-III (main 25-150 mm2 & tap 25-150 sq mm)	Nos.	100	94	9,440.00
13	Spring loaded CP multi conn bus-bar in insulated box Single Phase 1 in 9 out (Dist. Box for fixing on pole suitable for AB XLPE Cable)	Nos.	25	1,276	31,905.73
14	LT XLPE Cable 1Cx120 sqmm (Armoured)	Mtr.	125	105	13,065.75
15	Insulation piercing connector branching suitable for T Joints	Nos.	3	243	730.21
16	Service main anchor clamp for proper support of service cable	Nos.	25	87	2,168.12
17	GI Wire No. 6/8/10	KG	63	94	5,853.75
18	Earth clamp for earthwire (50 x 6 mm)[GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
19	25mm dia MS rod 3 m long for earth mat	Set	25	1,024	25,592.01
A	Sub Total (in INR)				5,91,307.42
B	Sundries Charges including nut bolts, paint etc. (in INR)		@	3%	17,739.22
C	Contingencies Charges (in INR)		@	3%	17,739.22
D	Store Charges (in INR)		@	3%	17,739.22
E	Transportation Cost (in INR)		@	4%	23,652.30
F	T & P Cost (in INR)		@	2%	11,826.15
G	Overhead Cost (in INR)		@	10%	59,130.74
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)		Normal Soil		1,64,783.63
Hard Soil			1,77,818.62		
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		9,03,917.90
Hard Soil			9,16,952.89		



**64. 1 KM LT Overhead Line on 8 mtr PSC Pole LT XLPE AB Cable
3Cx95+1Cx70+1Cx16 mm²**

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 200 KG W.L (8 mtr.)	Nos.	25	2,634	65,839.50
2	LT XLPE AB cable 3Cx95+1Cx70+1Cx16 mm ²	Mtrs.	1030.00	317	3,26,189.05
3	Suspension Clamp Assembly Suitable Upto 70-95 Sqmm bare messenger (Including 1 No. Suspension Clamp with Bracket, 2 Mtr Stainless Steel Strap & 2 Nos. SS buckles)	Nos.	23	378	8,692.40
4	Dead End Clamp Suitable above 70 Sqmm bare messenger (Including 1 No. Dead End Bracket + 1 No. Dead End + 2 Mtr SS Strap + 2 Nos. SS buckle) [Minimum breaking load-15 KN]	Nos.	2	408	816.56
5	Stainless Steel Strip of 20mmX1mmx1000mm with Buckle Clip	Mtrs.	15	58	868.36
6	Pole clamp for I hook B type (0.8 Kgs. each)	Pair	25	140	3,500.21
7	Eye Hook	Nos.	25	112	2,802.50
8	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanised)	Set	8	1,167	9,336.21
9	Angle/side Stay Clamp (50x6 mm) for 8 mtr 200kg PSC Pole[GALVANIZED] (1.08 Kgs.)	Set	8	94	752.41
10	LT Pre insulated mid span joint suitable 95 mm ² Phases	Nos.	3	196	587.64
11	LT Pre insulated mid span joint suitable 70 mm ² Phases	Nos.	3	180	541.09
12	Insulation piercing connector-Type-III (main 25-150 mm ² & tap 25-150 sq mm)	Nos.	100	94	9,440.00
13	Spring loaded CP multi conn bus-bar in insulated box Single Phase 1 in 9 out (Dist. Box for fixing on pole suitable for AB XLPE Cable)	Nos.	25	1,276	31,905.73
14	LT XLPE Cable 1Cx120 sqmm (Armoured)	Mtr.	125	105	13,065.75
15	Insulation piercing connector branching suitable for T Joints	Nos.	3	243	730.21
16	Service main anchor clamp for proper support of service cable	Nos.	25	87	2,168.12
17	GI Wire No. 6/8/10	KG	63	94	5,853.75
18	Earth clamp for earthwire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
19	25mm dia MS rod 3 m long for earth mat	Set	25	1,024	25,592.01
A	Sub Total (in INR)				5,12,600.27
B	Sundries Charges including nut bolts, paint etc. (in INR)	@		3%	15,378.01
C	Contingencies Charges (in INR)	@		3%	15,378.01
D	Store Charges (in INR)	@		3%	15,378.01
E	Transportation Cost (in INR)	@		4%	20,504.01
F	T & P Cost (in INR)	@		2%	10,252.01
G	Overhead Cost (in INR)	@		10%	51,260.03
H	Normal Soil				1,64,783.63



	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Hard Soil	1,77,818.62
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil	8,05,533.96
		Hard Soil	8,18,568.95



65.1 KM LT Overhead Line on 8 mtr PSC Pole LT XLPE AB Cable 3Cx50 sqmm + 1x35 sqmm+1x16 sq mm

Sr No.	Description of item of Work	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 200 KG W.L (8 mtr.)	Nos.	25	2,634	65,839.50
2	LT XLPE AB Cable 3Cx50 sqmm + 1x35 sqmm+1x16 sq mm	Mtrs.	1030	209	2,15,089.34
3	Suspension Clamp Assembly Suitable Upto 70-95 Sqmm bare messenger (Including 1 No. Suspension Clamp with Bracket, 2 Mtr Stainless Steel Strap & 2 Nos. SS buckles)	Nos.	23	378	8,692.40
4	Dead End Clamp Suitable 50-70 Sqmm bare messenger (Including 1 No. Dead End Bracket + 1 No. Dead End + 2 Mtr SS Strap + 2 Nos. SS buckle) [Minimum breaking load-15 KN]	Nos.	2	425	849.60
5	Stainless Steel Strip of 20mmX1mmx1000mm with Buckle Clip	Mtrs.	15	58	868.36
6	Pole clamp for I hook B type (0.8 Kgs. each)	Pair	25	140	3,500.21
7	Eye Hook	Nos.	25	112	2,802.50
8	Stay Set complete (1800x20mm) with stay wire 7/10 SWG & Guy Insulator (Galvanized)	Set	8	1,167	9,336.21
9	Angle/side Stay Clamp (50x6 mm) for 8 mtr 200kg PSC Pole[GALVANIZED] (1.08 Kgs.)	Set	8	94	752.41
10	LT Pre insulated mid span joint suitable 95 mm ² Phases	Nos.	3	196	587.64
11	LT Pre insulated mid span joint suitable 70 mm ² Phases	Nos.	3	180	541.09
12	Insulation piercing connector-Type-III (main 25-150 mm ² & tap 25-150 sq mm)	Nos.	100	94	9,440.00
13	Spring loaded CP multi conn bus-bar in insulated box Single Phase 1 in 9 out (Dist. Box for fixing on pole suitable for AB XLPE Cable)	Nos.	25	1,276	31,905.73
14	LT XLPE Cable 1Cx120 sqmm (Armored)	Mtr.	125	105	13,065.75
15	Insulation piercing connector branching suitable for T Joints	Nos.	3	243	730.21
16	Service main anchor clamp for proper support of service cable	Nos.	25	87	2,168.12
17	GI Wire No. 6/8/10	KG	63	94	5,853.75
18	Earth clamp for earth wire (50 x 6 mm) [GALVANIZED] (1.8 Kgs.)	Pair	25	157	3,918.78
19	25mm dia MS rod 3 m long for earth mat	Set	25	1,024	25,592.01
A	Sub Total (in INR)				4,01,533.59
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		12,046.01
C	Contingencies Charges (in INR)	@	3%		12,046.01
D	Store Charges (in INR)	@	3%		12,046.01
E	Transportation Cost (in INR)	@	4%		16,061.34
F	T & P Cost (in INR)	@	2%		8,030.67
G	Overhead Cost (in INR)	@	10%		40,153.36
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,62,653.85
		Hard Soil			1,75,688.84
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			6,64,570.84
		Hard Soil			6,77,605.83





DSS COSTING

66. 11/.433 KV DSS With 25 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	2	4,496	8,991.60
2	ACSR Rabbit Conductor (50 mm ²)	KMs	0.1	59,767	5,976.70
3	P G Clamps for 34/55mm ²	Nos.	6	45	267.60
4	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
5	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
6	11KV 3 pin type, AB Switch 200 Amps (double break)	Set	1	16,461	16,461.00
7	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
8	11 KV Lightening Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Nos.	1	6,345	6,344.86
9	BIS Energy Efficiency level-1 type tested, 11/.433 kV 25 kVA, Al. wd., stack type CRGO core, distribution transformer fitted completely self –protected (CSP)	Nos.	1	70,830	70,830.00
10	11kv Top Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	3,426.00
11	Transformer base Channel (100x50x6 mm)[GALVANIZED] (45.5 Kgs.)(1Set contains 2 Nos)	Set	1	4,366	4,365.87
12	11kv Channel for AB Switch(75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
13	11kv HG Fuse Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	0.00
14	Support Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Pair contains 2 Nos)	Pair	2	249	497.72
15	Support Clamp for Transformer base Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Set contains 2 Nos)	Pair	2	249	497.72
16	Support Clamp for AB Switch Base Channel (50x6 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1Pair contains 2 Nos)	Pair	2	249	497.72
17	Support clamp & channel for AB Switch handle (1 Set contains 2 Nos)	Set	2	249	497.72
18	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	4	1,288	5,151.21
19	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Pair	4	167	668.81
20	LTDB for 25KVA, Isolator 63A, incoming MCCB 4P,63A,20KA, Outgoing MCCB 3P 32A,20KA	Nos.	1	21,136	21,135.94
21	MS Angle for LT Distribution bus (50x50x6 mm) [GALVANIZED]	Pair	1	589	588.82
22	LT XLPE Single Core Cable 50 mm ² (Armoured)	Mtr	30	90	2,697.99
23	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.2S (–/110V & –/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	Nos.	1	16,448	16,447.57
24	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm)[GALVANIZED] (52.3 Kgs.)	Set	1	4,554	4,554.49
25	Clamp (50 x 6 mm) for Transformer base channel [GALVANIZED] (3.2 Kgs.)	Pair	2	279	557.34
26	Aluminium binding wire	KG	4	337	1,347.28



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
27	GI Wire No. 6/8/10	KG	8	94	749.28
28	Stone Base plate for 11 KV, DSS, LT	Nos.	2	249	497.29
29	Anticlimbing Device (Barbed wire) 2x12 SWG	KG	6	81	486.00
30	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				1,86,479.03
B	Sundries Charges including nut bolts, paint etc. (in INR)	@		3%	5,594.37
C	Contingency Charges (in INR)	@		3%	5,594.37
D	Store Charges (in INR)	@		3%	5,594.37
E	Transportation Cost (in INR)	@		4%	7,459.16
F	T & P Cost (in INR)	@		2%	3,729.58
G	Overhead Cost (in INR)	@		10%	18,647.90
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			83,830.82
		Hard Soil			86,334.26
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			3,16,929.60
		Hard Soil			3,19,433.04



67.11/.433 KV DSS With 63 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	2	4,496	8,991.60
2	ACSR Rabbit Conductor (50 mm ²)	KMs	0.1	59,767	5,976.70
3	P G Clamps for 34/55mm ²	Nos.	6	45	267.60
4	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
5	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
6	11KV 3 pin type, AB Switch 200 Amps (double break)	Set	1	16,461	16,461.00
7	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
8	11 KV Lightening Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Set	1	6,345	6,344.86
9	BIS Energy Efficiency level-I, 11/0.433 kV 63 kVA, Al. wd., stack type CRGO core, distribution transformer fitted completely self-protected (CSP)	Nos.	1	1,39,240	1,39,240.00
10	11kv Top Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	3,426.00
11	Transformer base Channel (100x50x6 mm)[GALVANIZED] (52.63 Kgs.)(1Set contains 2 Nos)	Set	1	4,366	4,365.87
12	11kv Channel for AB Switch(75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
13	11kv HG Fuse Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
14	Support Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Pair contains 2 Nos)	Pair	2	249	497.72
15	Support Clamp for Transformer base Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Set contains 2 Nos)	Pair	2	249	497.72
16	Support Clamp for AB Switch Base Channel (50x6 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1Pair contains 2 Nos)	Pair	2	249	497.72
17	Support clamp & channel for AB Switch handle (1 Set contains 2 Nos)	Set	2	249	497.72
18	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	4	1,288	5,151.21
19	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Pair	4	167	668.81
20	LT Distribution box suitable for 63 KVA transformer (200 A, isolator & 6 TP MCCB of 100 A)	Nos.	1	15,691	15,691.04
21	MS Angle for LT Distribution bus (50x50x6 mm) [GALVANIZED]	Pair	1	589	588.82
22	LT XLPE Single Core Cable 50 mm ² (Armoured)	Mtr	30	90	2,697.99
23	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.2S (-/110V & -/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	Nos.	1	16,448	16,447.57
24	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm)[GALVANIZED] (52.3 Kgs.)	Set	1	4,554	4,554.49
25	Clamp (50 x 6 mm) for Transformer base channel [GALVANIZED] (3.2 Kgs.)	Pair	2	279	557.34
26	Aluminium binding wire	KG	4	337	1,347.28



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
27	GI Wire No. 6/8/10	KG	8	94	749.28
28	Stone Base plate for 11 KV, DSS, LT	Nos.	2	249	497.29
29	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	6	81	486.00
30	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				2,56,296.12
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		7,688.88
C	Contingency Charges (in INR)	@	3%		7,688.88
D	Store Charges (in INR)	@	3%		7,688.88
E	Transportation Cost (in INR)	@	4%		10,251.84
F	T & P Cost (in INR)	@	2%		5,125.92
G	Overhead Cost (in INR)	@	10%		25,629.61
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			83,957.55
		Hard Soil			86,460.99
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			4,04,327.70
		Hard Soil			4,06,831.14



68.11/.433 KV DSS With 100 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	2	4,496	8,991.60
2	ACSR Rabbit Conductor (50 mm ²)	KMs	0.1	59,767	5,976.70
3	P G Clamps for 34/55mm ²	Nos.	6	45	267.60
4	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
5	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
6	11KV 3 pin type, AB Switch 200 Amps (double break)	Set	1	16,461	16,461.00
7	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
8	11 KV Lightning Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Nos.	1	6,345	6,344.86
9	BIS Energy Efficiency level-I, 11/0.433 kV 100 kVA, Al. wd., stack type CRGO core, distribution transformer fitted with completely self-protected (CSP)	Nos.	1	1,74,646	1,74,645.90
10	11kv Top Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	3,426.00
11	Transformer base Channel (100x50x6 mm)[GALVANIZED] (52.63 Kgs.)(1Set contains 2 Nos)	Set	1	4,366	4,365.87
12	11kv Channel for AB Switch(75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
13	11kv HG Fuse Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
14	Support Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Pair contains 2 Nos)	Pair	2	249	497.72
15	Support Clamp for Transformer base Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Set contains 2 Nos)	Pair	2	249	497.72
16	Support Clamp for AB Switch Base Channel (50x6 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1Pair contains 2 Nos)	Pair	2	249	497.72
17	Support clamp & channel for AB Switch handle (1 Set contains 2 Nos)	Set	2	249	497.72
18	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	4	1,288	5,151.21
19	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Pair	4	159	637.09
20	LTDB for 100KVA, Isolator 250A, incoming MCCB 4P,200A,36KA, Outgoing MCCB 3P 100A,36KA	Nos.	1	32,879	32,879.34
21	MS Angle for LT Distribution bus (50x50x6 mm) [GALVANIZED] (1Pair contains 2 Nos)	Pair	1	589	588.82
22	XLPE Single Core Cable 50 mm ² (Armoured)	Mtr	30	90	2,697.99
23	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.2S (-/110V & -/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	Nos.	1	16,448	16,447.57
24	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm)[GALVANIZED] (52.3 Kgs.)	Set	1	4,338	4,338.49
25	Clamp (50 x 6 mm) for Transformer base channel [GALVANIZED] (3.2 Kgs.)	Pair	2	265	530.91
26	Aluminium binding wire	KG	4	337	1,347.28
27	GI Wire No. 6/8/10	KG	8	94	749.28



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
28	Stone Base plate for 11 KV, DSS, LT	Nos.	2	249	497.29
29	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	6	81	486.00
30	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				3,56,068.30
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		9,163.93
C	Contingency Charges (in INR)	@	3%		9,163.93
D	Store Charges (in INR)	@	3%		9,163.93
E	Transportation Cost (in INR)	@	4%		12,218.57
F	T & P Cost (in INR)	@	2%		6,109.29
G	Overhead Cost (in INR)	@	10%		30,546.43
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			84,002.81
		Hard Soil			86,506.26
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			4,65,833.22
		Hard Soil			4,68,336.66



69.11/.433 KV DSS With 200 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	2	4,496	8,991.60
2	ACSR Dog conductor (100 sq. mm)	KMs	0.1	1,12,225	11,222.52
3	P G Clamps for 34/55mm ²	Nos.	6	45	267.60
4	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
5	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
6	11KV 3 pin type, AB Switch 200 Amps (double break)	Set	1	16,461	16,461.00
7	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
8	11 KV Lightning Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Nos.	1	6,345	6,344.86
9	11/0.433 KV Distribution Transformer 200 KVA, Aluminium Winding, Stack type CRGO Core fitted, Completely Self Protected; 4 star - BEE rating ; BIS Level 1	Nos.	1	2,95,000	2,95,000.00
10	11kv Top Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	3,426.00
11	Transformer base Channel (100x50x6 mm)[GALVANIZED] (52.63 Kgs.)(1Set contains 2 Nos)	Set	1	4,366	4,365.87
12	11kv Channel for AB Switch(75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
13	11kv HG Fuse Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
14	Support Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Pair contains 2 Nos)	Pair	2	249	497.72
15	Support Clamp for Transformer base Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Set contains 2 Nos)	Pair	2	249	497.72
16	Support Clamp for AB Switch Base Channel (50x6 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1Pair contains 2 Nos)	Pair	2	249	497.72
17	Support clamp & channel for AB Switch handle (1 Set contains 2 Nos)	Set	2	249	497.72
18	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	4	1,288	5,151.21
19	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.) (1Pair contains 2 Nos)	Pair	4	159	637.09
20	LTDB for 200KVA, Isolator 400A, incoming MCCB 4P, 400A, 50KA, Outgoing MCCB 3P 100A, 36KA	Nos.	1	51,936	51,935.94
21	MS Angle for LT Distribution bus (50x50x6 mm) [GALVANIZED] (1Pair contains 2 Nos)	Pair	1	589	588.82
22	LT XLPE Single Core Cable 95 mm ² (Armoured)	Mtr	30	95	2,850.00
23	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.2S (-/110V & -/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	Nos.	1	16,448	16,447.57



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
24	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm)[GALVANIZED] (52.3 Kgs.)	Set	1	4,554	4,554.49
25	Clamp (50 x 6 mm) for Transformer base channel [GALVANIZED] (3.2 Kgs.)	Pair	2	279	557.34
26	Aluminum binding wire	KG	4	337	1,347.28
27	GI Wire No. 6/8/10	KG	8	94	749.28
28	Stone Base plate for 11 KV, DSS, LT	Nos.	2	249	497.29
29	Anticlimbing Device (Barbed wire) 2x12 SWG	KG	6	81	486.00
30	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				4,53,667.14
B	Sundries Charges including nut bolts, paint etc. (in INR)	@		3%	13,610.01
C	Contingencies Charges (in INR)	@		3%	13,610.01
D	Store Charges (in INR)	@		3%	13,610.01
E	Transportation Cost (in INR)	@		4%	18,146.69
F	T & P Cost (in INR)	@		2%	9,073.34
G	Overhead Cost (in INR)	@		10%	45,366.71
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			84,102.45
		Hard Soil			86,605.90
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			6,51,186.38
		Hard Soil			6,53,689.82



70.11/.433 KV DSS With 315 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	2	4,496	8,991.60
2	ACSR Dog conductor (100 sq. mm)	KMs	0.1	1,12,225	11,222.52
3	P G Clamps for 34/55mm ²	Nos.	6	45	267.60
4	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
5	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
6	11KV 3 pin type, AB Switch 200 Amps (double break)	Set	1	16,461	16,461.00
7	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
8	11 KV Lightning Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Nos.	1	6,345	6,344.86
9	11/0.433 KV Distribution Transformer 315 KVA, Copper wound, CRGO M4 Core ONAN; BIS Level 1	Nos.	1	5,95,533	5,95,533.34
10	11kv Top Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.)	Set	1	3,426	3,426.00
11	Transformer base Channel (100x50x6 mm)[GALVANIZED] (52.63 Kgs.)(1Set contains 2 Nos)	Set	1	4,366	4,365.87
12	11kv Channel for AB Switch(75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
13	11kv HG Fuse Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
14	Support Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Pair contains 2 Nos)	Pair	2	249	497.72
15	Support Clamp for Transformer base Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Set contains 2 Nos)	Pair	2	249	497.72
16	Support Clamp for AB Switch Base Channel (50x6 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1Pair contains 2 Nos)	Pair	2	249	497.72
17	Support clamp & channel for AB Switch handle (1 Set contains 2 Nos)	Set	2	249	497.72
18	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	4	1,288	5,151.21
19	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.) (1Pair contains 2 Nos)	Pair	4	159	637.09
20	LTDB for 200KVA, Isolator 400A, incoming MCCB 4P, 400A, 50KA, Outgoing MCCB 3P 100A, 36KA	Nos.	1	51,936	51,935.94
21	MS Angle for LT Distribution bus (50x50x6 mm) [GALVANIZED] (1Pair contains 2 Nos)	Pair	1	589	588.82
22	LT XLPE Cable 1Cx120 sqmm (Armored)	Mtr	60	105	6,271.56
23	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.2S (-/110V & -/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	Nos.	1	16,448	16,447.57
24	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm)[GALVANIZED] (52.3 Kgs.)	Set	1	4,554	4,554.49
25	Clamp (50 x 6 mm) for Transformer base channel [GALVANIZED] (3.2 Kgs.)	Pair	2	279	557.34
26	Aluminium binding wire	KG	4	337	1,347.28
27	GI Wire No. 6/8/10	KG	8	94	749.28
28	Stone Base plate for 11 KV, DSS, LT	Nos.	2	249	497.29
29	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	6	81	486.00



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
30	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				7,57,622.04
B	Sundries Charges including nut bolts, paint etc. (in INR)	@		3%	22,728.66
C	Contingency Charges (in INR)	@		3%	22,728.66
D	Store Charges (in INR)	@		3%	22,728.66
E	Transportation Cost (in INR)	@		4%	30,304.88
F	T & P Cost (in INR)	@		2%	15,152.44
G	Overhead Cost (in INR)	@		10%	75,762.20
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)			Normal Soil	87,325.43
				Hard Soil	89,828.87
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)			Normal Soil	10,34,352.98
				Hard Soil	10,36,856.42



71. 11/.433 KV DSS With 500 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	PSC Pole 400 KG W.L (9 mtr.)	Nos.	2	4,496	8,991.60
2	ACSR Dog conductor (100 sq. mm)	KMs	0.1	1,12,225	11,222.52
3	P G Clamps for 34/55mm ²	Nos.	6	45	267.60
4	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
5	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
6	11KV 3 pin type, AB Switch 200 Amps (double break)	Set	1	16,461	16,461.00
7	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
8	11 KV Lightening Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Nos.	1	6,345	6,344.86
9	11/0.433 KV Distribution Transformer 500 KVA, Copper wound, CRGO M4 Core ONAN; BIS Level 1	Nos.	1	8,60,116	8,60,116.36
10	11kv Top Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	3,426.00
11	Transformer base Channel (100x50x6 mm)[GALVANIZED] (52.63 Kgs.)(1Set contains 2 Nos)	Set	1	4,366	4,365.87
12	11kv Channel for AB Switch(75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
13	11kv HG Fuse Channel (75x40x6 mm) [GALVANIZED] (41.3 Kgs.) (1Set contains 2 Nos)	Set	1	3,426	6,852.00
14	Support Clamp for Top Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Pair contains 2 Nos)	Pair	2	249	497.72
15	Support Clamp for AB Switch Base Channel (50x6 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1Pair contains 2 Nos)	Pair	2	249	497.72
16	Support clamp & channel for AB Switch handle (1 Set contains 2 Nos)	Set	2	249	497.72
17	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	4	1,288	5,151.21
18	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Pair	4	167	668.81
19	LT Distribution box suitable for 500 KVA transformer (800 A, isolator & 12 TP MCCB of 160 A)	Nos.	1	74,409	74,409.18
20	MS Angle for LT Distribution bus (50x50x6 mm) [GALVANIZED]	Pair	1	589	588.82
21	LT XLPE Cable 1Cx120 sqmm (Armoured)	Mtr	60	105	6,271.56
22	HT Electronic Trivector static meter, 3 phase 4 wire, Accuracy class 0.2S (-/110V & -/5A) (DLMS complaint) with compatible GPRS modem with Meter Box	Nos.	1	16,448	16,447.57
23	Aluminum binding wire	KG	4	337	1,347.28
24	GI Wire No. 6/8/10	KG	8	94	749.28



S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
25	Stone Base plate for 11 KV, DSS, LT	Nos.	2	249	497.29
26	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	6	81	486.00
27	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				10,39,100.46
B	Sundries Charges including nut bolts, paint etc. (in INR)	@		3%	31,173.01
C	Contingencies Charges (in INR)	@		3%	31,173.01
D	Store Charges (in INR)	@		3%	31,173.01
E	Transportation Cost (in INR)	@		4%	41,564.02
F	T & P Cost (in INR)	@		2%	20,782.01
G	Overhead Cost (in INR)	@		10%	1,03,910.05
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			1,21,629.39
		Hard Soil			1,41,284.82
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			14,20,504.97
		Hard Soil			14,40,160.39



72.S&R of 11/.433 KV DSS With 63 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	ACSR Rabbit Conductor (50 mm ²)	KMs	0.1	59,767	5,976.70
2	P G Clamps for 34/55mm ²	Nos.	3	45	133.80
3	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
4	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
5	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
6	11 KV Lightning Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Nos.	1	6,345	6,344.86
7	BIS Energy Efficiency level-I, 11/0.433 kV 63 kVA, Al. wd., stack type CRGO core, distribution transformer fitted completely self-protected (CSP)	Nos.	1	1,39,240	1,39,240.00
8	Support Clamp for Transformer base Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Set contains 2 Nos)	Pair	2	249	497.72
9	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	2	1,288	2,575.61
10	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Pair	2	167	334.40
11	LT XLPE Single Core Cable 50 mm ² (Armoured)	Mtr	30	90	2,697.99
12	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm)[GALVANIZED] (52.3 Kgs.)	Set	1	4,554	4,554.49
13	Clamp (50 x 6 mm) for Transformer base channel [GALVANIZED] (3.2 Kgs.)	Pair	2	279	557.34
14	Aluminium binding wire	KG	2.4	337	808.37
15	GI Wire No. 6/8/10	KG	4.8	94	449.57
16	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	3.6	81	291.60
17	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				1,70,552.93
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		5,116.59
C	Contingency Charges (in INR)	@	3%		5,116.59
D	Store Charges (in INR)	@	3%		5,116.59
E	Transportation Cost (in INR)	@	4%		6,822.12
F	T & P Cost (in INR)	@	2%		3,411.06
G	Overhead Cost (in INR)	@	10%		17,055.29
H	Labour Cost for dismantling & installation (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			64,071.34
		Hard Soil			64,590.41
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			2,77,262.51
		Hard Soil			2,77,781.58



73. S&R of 11/.433 KV DSS With 100 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	ACSR Rabbit Conductor (50 mm ²)	KMs	0.1	59,767	5,976.70
2	P G Clamps for 34/55mm ²	Nos.	3	45	133.80
3	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
4	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
5	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
6	11 KV Lightning Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Nos.	1	6,345	6,344.86
7	BIS Energy Efficiency level-I, 11/0.433 kV 100 kVA, Al. wd., stack type CRGO core, distribution transformer fitted with completely self-protected (CSP)	Nos.	1	1,74,646	1,74,645.90
8	Support Clamp for Transformer base Channel 50x6 mm flat for 9 mtr 400kg PSC Pole[GALVANIZED] (3 Kgs.) (1Set contains 2 Nos)	Pair	2	249	497.72
9	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	2	1,288	2,575.61
10	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Pair	2	167	334.40
11	LT XLPE Single Core Cable 50 mm ² (Armored)	Mtr	30	90	2,697.99
12	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm)[GALVANIZED] (52.3 Kgs.)	Set	1	4,554	4,554.49
13	Clamp (50 x 6 mm) for Transformer base channel [GALVANIZED] (3.2 Kgs.)	Pair	2	279	557.34
14	Aluminium binding wire	KG	2.4	337	808.37
15	GI Wire No. 6/8/10	KG	4.8	94	449.57
16	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	3.6	81	291.60
17	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				2,05,958.83
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		6,178.77
C	Contingency Charges (in INR)	@	3%		6,178.77
D	Store Charges (in INR)	@	3%		6,178.77
E	Transportation Cost (in INR)	@	4%		8,238.35
F	T & P Cost (in INR)	@	2%		4,119.18
G	Overhead Cost (in INR)	@	10%		20,595.88
H	Labour Cost for dismantling & installation (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			64,071.34
		Hard Soil			64,590.41
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			3,21,519.89
		Hard Soil			3,22,038.95



74.S&R of 11/.433 KV DSS With 200 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	ACSR Dog conductor (100 sq. mm)	KMs	0.1	1,12,225	11,222.52
2	P G Clamps for 34/55mm ²	Nos.	3	45	133.80
3	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
4	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
5	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
6	11 KV Lightning Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Nos.	1	6,345	6,344.86
7	11/0.433 KV Distribution Transformer 200 KVA, Aluminum Winding, Stack type CRGO Core fitted, Completely Self Protected; 4 star - BEE rating ; BIS Level 1	Nos.	1	2,95,000	2,95,000.00
8	Support Clamp for Transformer base Channel 50x6 mm flat for 9 mtr 400kg PSC Pole [GALVANIZED] (3 Kgs.) (1Set contains 2 Nos)	Pair	2	249	497.72
9	11 KV Stay Set Complete (1800x16 mm) with stay wire 7/10 SWG and guy insulator	Set	2	1,288	2,575.61
10	Angle/side Stay Clamp (50x10 mm) for 9 mtr 400kg PSC Pole[GALVANIZED] (1.92 Kgs.)	Pair	2	167	334.40
11	LT XLPE Single Core Cable 95 mm ² (Armoured)	Mtr	30	95	2,850.00
12	Transformer belting (50x50x6 mm) & belting support (40x40x6 mm)[GALVANIZED] (52.3 Kgs.)	Set	1	4,554	4,554.49
13	Clamp (50 x 6 mm) for Transformer base channel [GALVANIZED] (3.2 Kgs.)	Pair	2	279	557.34
14	Aluminium binding wire	KG	2.4	337	808.37
15	GI Wire No. 6/8/10	KG	4.8	94	449.57
16	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	3.6	81	291.60
17	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				3,31,710.77
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		9,951.32
C	Contingencies Charges (in INR)	@	3%		9,951.32
D	Store Charges (in INR)	@	3%		9,951.32
E	Transportation Cost (in INR)	@	4%		13,268.43
F	T & P Cost (in INR)	@	2%		6,634.22
G	Overhead Cost (in INR)	@	10%		33,171.08
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			64,071.34
		Hard Soil			64,590.41
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)		Normal Soil		4,78,709.80
			Hard Soil		4,79,228.87



75.S&R of 11/.433 KV DSS With 500 KVA Distribution Transformer

S.No.	Material	Unit	Qty.	Rate (in INR) (Incl. GST)	Amount (in INR)
1	ACSR Dog conductor (100 sq. mm)	KMs	0.1	1,12,225	11,222.52
2	P G Clamps for 34/55mm ²	Nos.	3	45	133.80
3	11 KV Pin Insulator 10 KN, OD 40 mm dia with Pin (Polymer Type) and nut & washer	Nos.	3	334	1,001.82
4	11 KV B&S type Disc Insulator (Polymer Type) 70 KN with H/W fitting	Nos.	3	531	1,593.00
5	11 KV H.G. Fuse unit (polymer type)	Set	1	3,172	3,172.01
6	11 KV Lightening Arrester (9 KV, 10 KA Class II, station type)(1set=3nos)	Nos.	1	6,345	6,344.86
7	11/0.433 KV Distribution Transformer 500 KVA, Copper wound, CRGO M4 Core ONAN; BIS Level 1	Nos.	1	8,60,116	8,60,116.36
8	LT XLPE Cable 1Cx120 sqmm (Armoured)	Mtr	60	105	6,271.56
9	Aluminium binding wire	KG	2.4	337	808.37
10	GI Wire No. 6/8/10	KG	4.8	94	449.57
11	Anticlimbing Device(Barbed wire) 2x12 SWG	KG	3.6	81	291.60
12	Danger Board 33 kV/ 11 kV/ LT	Nos.	2	162	323.66
A	Sub Total (in INR)				8,91,729.12
B	Sundries Charges including nut bolts, paint etc. (in INR)	@	3%		26,751.87
C	Contingencies Charges (in INR)	@	3%		26,751.87
D	Store Charges (in INR)	@	3%		26,751.87
E	Transportation Cost (in INR)	@	4%		35,669.16
F	T & P Cost (in INR)	@	2%		17,834.58
G	Overhead Cost (in INR)	@	10%		89,172.91
H	Labour Cost (as per respective labour cost analysis sheet) (in INR) (Excl. GST)	Normal Soil			70,390.73
		Hard Soil			70,909.80
I	TOTAL (I = A+B+C+D+E+F+G+H) (in INR)	Normal Soil			11,85,052.14
		Hard Soil			11,85,571.20



COST ESCALATION



76. Calculation of Labour Cost Escalation

Methodology Adopted for escalation factor calculation in JBVNL Cost Data Book 2023- 24	Labour Category	Daily wages for FY 2023-24 (INR)			Daily wages for FY 2024-25 (INR)			Percent rise in labour rate (over 2023- 24 rates)
		Basic Minimum	VDA	Total Minimum	Basic Minimum	VDA	Total Minimum	
	Unskilled	294.44	76.29	370.73	294.44	76.29	370.73	0.00%
	Semi-skilled	314.07	81.37	395.44	314.07	81.37	395.44	0.00%
	Skilled	405.68	105.11	510.79	405.68	105.11	510.79	0.00%
	Highly skilled	471.11	122.06	593.17	471.11	122.06	593.17	0.00%
	Average							0.00%

"Reference: Rates as per Labour, Planning , Training and Skills Development department of Government of Jharkhand Notification No.4/MW-2071/2010 L & T -683 Ranchi, dated 10/04/2023

(Basic minimum daily wages w.e.f. 1st April 2023)





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