



पत्र सं0 : 16 /रेस्पो/ Cost Data Book -2026

दिनांक : 02 जनवरी, 2026

विषय : कॉस्ट डाटा बुक-2026 के सम्बन्ध में।

प्रबन्ध निदेशक,

विद्युत वितरण निगम लि0,
पूर्वांचल-वाराणसी/मध्यांचल-लखनऊ/
दक्षिणांचल-आगरा/पश्चिमांचल-मेरठ/
केस्को-कानपुर।

महोदया/महोदय,

अवगत कराना है कि मा0 उत्तर प्रदेश विद्युत नियामक आयोग द्वारा पत्र सं0-UPERC/Secy/D(D)/2025-1214 दिनांक 31.12.2025 के माध्यम से नई कॉस्ट डाटा बुक-2026 निर्गत कर दी गई है।

अतः अपेक्षित है कि पत्र के साथ संलग्न नई कॉस्ट डाटा बुक डिस्कॉम के समस्त सम्बन्धित विभागों/इकाईयों एवं क्षेत्रीय कार्यालयों में सूचना, अभिलेख तथा आवश्यक अनुपालन हेतु उपलब्ध कराये जाने, डिस्कॉम की वेबसाईट पर अपलोड किये जाने एवं प्रमुख समाचार पत्रों में सार्वजनिक तथा व्यापक प्रसारण हेतु सम्बन्धित को निर्देशित करने का कष्ट करेंगे।

उक्त नई कॉस्ट डाटा बुक दिनांक 12 जनवरी, 2026 से प्रभावी (लागू) होगी।

संलग्नक :- कॉस्ट डाटा बुक-2026।

भवदीय,
Dinesh
(31/1/2026)
(ज्ञानेन्द्र धर द्विवेदी)
निदेशक (वितरण)

प्रतिलिपि :-

1. अध्यक्ष, उ0प्र0 पावर कारपोरेशन लि0, शक्ति भवन, लखनऊ।
2. प्रबन्ध निदेशक, उ0प्र0 पावर कारपोरेशन लि0, शक्ति भवन, लखनऊ।
3. निदेशक (वाणिज्य)/वरिष्ठ सलाहकार (आई0टी0), उ0प्र0 पावर कारपोरेशन लि0, लखनऊ को झटपट पोर्टल एवं निवेश मित्र पोर्टल पर नई व्यवस्था के दृष्टिगत आवश्यक संशोधन करने हेतु प्रेषित।
4. निदेशक (वित्त/कॉ०प्ला०/का०प्र० एवं प्रशा०), उ0प्र0 पावर कारपोरेशन लि0, शक्ति भवन, लखनऊ।
5. निदेशक (तकनीकी), विद्युत वितरण निगम लि0, पूर्वांचल-वाराणसी/मध्यांचल-लखनऊ/दक्षिणांचल-आगरा/पश्चिमांचल-मेरठ/केस्को-कानपुर।
6. समस्त मुख्य अभियन्ता (वितरण), पूर्वांचल-वाराणसी/मध्यांचल-लखनऊ/दक्षिणांचल-आगरा/पश्चिमांचल-मेरठ/केस्को-कानपुर।
7. अधीक्षण अभियन्ता (वेब), आई0टी0 इकाई, उ0प्र0 पावर कारपोरेशन लि0, शक्ति भवन, लखनऊ को www.uppcl.org पर अपलोड करने हेतु।



Uttar Pradesh Electricity Regulatory Commission

Vidyut Niyamak Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow-226010 Phone 2720426 Fax 2720423 E-mail secretary@uperc.org

**Sumeet Kumar Agarwal
Secretary**

To,

1. Chairman, UP Power Corporation Ltd. 7th Floor, Shakti Bhawan, 14, Ashok Marg, Lucknow
2. Managing Director, UP Power Corporation Ltd. 7th Floor, Shakti Bhawan, 14, Ashok Marg, Lucknow
3. Managing Director, Paschimanchal Vidyut Vitran Nigam Ltd., Victoria Park, Meerut.
4. Managing Director, Dakshinanchal Vidyut Vitran Nigam Ltd., Urja Bhawan 220, K.V. Up-Sansthan Bypass Road Agra – 282007
5. Managing Director, Kanpur Electricity Supply Co. Ltd., 14/71, Civil Lines, KESA House, Kanpur.
6. Managing Director, Madhyanchal Vidyut Vitran Nigam Ltd., 4 Gokhale Marg, Lucknow
7. Managing Director, Poorvanchal Vidyut Vitran Nigam Ltd., Bhikharipur, 132 KV Substation, PO.- D. L. W, Vidyut Nagar, Varanasi – 221004
8. Managing Director & CEO, Noida Power Company Ltd., Electricity Sub-station, Knowledge Park-IV, Greater Noida, Gautam Buddha Nagar - 201310
9. CEO & Managing Director, Torrent Power Ltd., 6, Raghunath Nagar, Suresh Plaza Market, Opp. Sanjay Place, M.G. Road, Agra – 282002

Ref: UPERC/Secy/D(D)/ 2025-1214
Dated: 31.12.2025

Subject: Issue of new Cost Data Book.

Sir,

The new Cost Data Book has been approved by the Commission on 31.12.2025 and shall be effective from such date as may be notified by the UPPCL/ Distribution Licensee, which shall not be later than 12.01.2026.

The Distribution Licensees shall take necessary action for its implementation and ensure its wide circulation among the field level officers and issue public notices in leading newspapers to this effect.

Encl: As above.

Yours faithfully,


(Sumeet Kumar Agarwal)
Secretary

CC:

✓ 1. Chief Engineer, RESPO, Shakti Bhawan Extension, Ashok Marg, Lucknow.

UTTAR PRADESH
ELECTRICITY REGULATORY COMMISSION



**COST DATA BOOK
FOR
RECOVERY OF EXPENSES & OTHER CHARGES FROM
PROSPECTIVE CONSUMERS
FOR TAKING ELECTRIC SUPPLY**

(APPLICABLE TO ALL DISTRIBUTION LICENSEES IN UTTAR PRADESH)

(Revised as per sub-rule 13 of Rule 4 of Electricity (Rights of Consumers) Rules, 2020)

31.12.2025

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CHAPTER 1

STATEMENT OF OBJECTS AND REASONS

1. Section 42 of the Electricity Act 2003 (herein after called "the Act") and amendments thereof provides that a distribution licensee shall develop and maintain an efficient, co-coordinated and economical distribution system in its area of supply and supply electricity in accordance with the provisions of the Act.
2. Section 46 of the Act provides that the State Commission may, by regulations, authorize a distribution licensee to charge from a person requiring a supply of electricity in pursuance of Section 43, any expenses reasonably incurred in providing any electric line or electrical plant for the purpose of giving that supply.
3. Section 47 of the Act provides that subject to the provisions of this section, a distribution licensee may require any person, who requires a supply of electricity in pursuance of Section 43, to give him reasonable security, as may be determined by regulations, for the payment to him of all monies which may become due to him -
 - a) In respect of the electricity supplied to such person, or
 - b) Where any electric line or electrical plant or electric meter is to be provided for supplying electricity to such person, in respect of the provision of such line or plant or meter.
4. The U.P. Electricity Regulatory Commission (herein after called "the Commission") has notified Electricity Supply Code 2005 (herein after called "the Code").
5. Specific words and expressions carry the meaning assigned to them in the Act and/or the Code.
6. There will be one structure of charges for all the Distribution Licensees in the State.
7. The charges specified in this Cost Data Book shall be charged by the Distribution Licensees from the prospective or existing consumers requesting for new connection/enhancement/reduction of load.
 - a) The Cost Data Book shall remain valid for 02 years from the date of its issue. However, after one year from its date of issue, an escalation percentage equivalent to change in WPI of the previous 12 months shall be applicable only on material rates (except meter) for the second year of its validity.
 - b) Also, an annual escalation percentage equivalent to change in WPI of previous 12 months shall be applicable on material rates (except meter) for the third year, till the issuance of revised/new Cost Data Book, provided that the licensee/UPPCL submits the proposal for Cost Data Book within the specified period of 2 years and approval of the same gets delayed beyond 2 years.

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8. The estimate for the work shall be prepared by the licensee, keeping in view the landed cost, which will include material cost, carriage, labour and other overhead charges. GST as applicable, shall be charged on the estimate prepared by the licensee.
 - a) Provided that, GST shall not be charged on "Services supplied by electricity distribution utilities by way of construction, erection, commissioning, or installation of infrastructure for extending electricity distribution network up to the tube well of the farmer or agriculturalist for agricultural use" (as per Govt. of India, Ministry of Finance (Dept. of Revenue) Notification No. 14/2018 – Central Tax (Rate) dated 26.07.2018).
 - b) Provided further that, no GST shall be charged on 'Security' amount and processing fee.
9. The total charges payable by an applicant shall comprise of Processing Fee, Security, Metering Charge (erstwhile Fixed Service Line Charge) and Supply Affording Charge (erstwhile Variable Line Charge). All the four components shall be clearly and separately mentioned in the Estimate and Receipts issued by the Licensee to the applicants.
10. For conversion from H.P. to kW and from kVA to kW and vice versa, a factor of 0.746 and 0.90 respectively shall be taken, wherever necessary. It is further clarified as follows:

Demand in kVA = (Load in BHP×0.746)/0.90

Demand in kW = (Load in kW)/0.90

11. In case of any inconsistency between Cost Data Book and Electricity Supply Code, the Cost Data Book shall prevail.
12. Details of Metering Charges are enclosed at Annexure-1 to 11A.
13. The rates given for different items of works for any type of connections shall not be taken as a base for justifying the rates where a work is to be undertaken on the basis of a transparent bidding process.
14. The Cost Data Book shall be effective from such date as may be notified by the UPPCL/ Distribution Licensee, which shall not be later than **12.01.2026**.

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CHAPTER 2

PROCESSING FEE

Sl. No.	Description	Processing Fee Per connection in Rs.
1	Load up to 1 kW for Life Line Consumers only	25
2	Load 1 kW (other than Life Line Consumers) to 2 kW	200
3	Load 3 kW to 4 kW	300
4	Load 5 kW to 24 kW	500
5	Load 25 kW to 50 kW (or 56 kVA)	5,000
6	Load 57 kVA to 500 kVA	10,000
7	Load 501 kVA to 4,000 kVA	15,000
8	Load 4,001 kVA to 10,000 kVA	25,000
9	Load above 10,000 kVA	50,000

NOTE:

1. The processing fee shall be non-refundable and non-adjustable.
2. The processing fee under Sr. No. 1 shall be applicable only for those consumers who have Antyodaya Card or who shall self-declare that they are lifeline consumers and will consume less than the limit prescribed for such consumers.
3. This fee shall be applicable for new connection, tatkal temporary connection, temporary connection, reduction and enhancement of load (depending on the final load).
4. This shall be applicable for all the categories of prospective/existing consumer.
5. Mutation of names:-
 - a) For loads below 25 kW, the processing fee shall be charged as per the above table.
 - b) For loads of 25 kW and above, processing fee of Rs. 1000 shall be charged in place of fee mentioned in the table above for cases of mutation of individual with individual only. In other cases, processing fee as per the above table shall be applicable.

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CHAPTER 3

PROCESSING FEE FOR LINE SHIFTING

Sr. No.	Description	Processing Fee in Rs.
1	LT Line / PTW Connection	1000
2	11/0.4 kV Transformer	5000
3	11 kV Line	10000
4	33 kV Line	15000
5	33/11 kV Sub-station Shifting	25000

NOTE:

1. The processing fee shall be non-refundable and non-adjustable.
2. In case of more than one shifting works required on the same place, the consumer shall pay the processing fee only for the work with maximum processing fee.

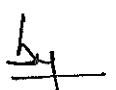
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CHAPTER 4

SECURITY

Sl. No.	Description	Security (Rs.)
1	Domestic Light & Fan for load up to 1 kW only (LMV-1) (For Lifeline Consumers)	NIL
2	Rural Domestic Light & Fan for Load up to 2 kW (LMV-1)	100/kW
3	Urban Domestic Light & Fan for Load up to 2 kW (LMV-1)	300/kW
4	Domestic Light & Fan over 2 kW (LMV-1)	400/ kW
5	Non-Domestic Light and Fan (LMV-2)	1000/kW
6	Public lighting (LMV-3)	3400/kW for Gram Panchayat, 4000/kW for Nagar Palika & Nagar Panchayat, 5000/kW for Nagar Nigam
7	Public Institution LMV-4 (A)	4000/kW
8	Private Institution LMV-4 (B)	4000/kW
9	Private Tube well (LMV-5) (Rural Metered)	300/BHP
10	Private Tube well (LMV-5) (Urban Schedule)	300/BHP
11	Small and Medium Power (LMV-6)	2000/kW
12	Public Water Work (LMV-7)	4000/kW
13	State Tube Well, Panchayati Raj Tube Wells, Pump Canals (LMV-8)	4000/BHP
14	Public/SRTC Electric Vehicle Charging Stations (LT & HT) (LMV-11)	1000/kW
15	Non-Industrial Bulk Load (HV-1) for Private Institutions supply at 11 kV and above	5000/kVA
16	Non-Industrial Bulk Load (HV-1) for Public Institutions supply at 11 kV and above	5000/kVA
17	Large and Heavy Power (HV-2)	3500/kVA
18	Railway Traction (HV-3)	5000/kVA
19	Metro Rail / RRTS (HV-3)	3000/kVA
20	Lift Irrigation works (HV-4)	5000/kVA




NOTE: -

1. The minimum amount of Security Deposit for postpaid meter consumer shall be as per Chapter 4. However, on the basis of consumption, Additional security deposit to cover the estimated power consumption for 45 days shall be made by all consumers/applicants instead of 02 months as specified in clause-4.20(a) of Electricity Supply Code-2005.
2. Initial security at above rates is payable per kW/HP/kVA or part thereof as the case may be.
3. The licensee shall give notice as per the Supply Code, 2005 to the consumer for deposition of additional security if the deposited security falls short of covering the estimated power consumption bill for 45 days based on his average monthly consumption for the preceding financial year and charge the same in the upcoming bill. However, no late payment surcharge (LPSC) shall be levied on this amount.
4. No security shall be charged if the connection is given through pre-paid meter.
5. If an existing electricity connection through post-paid meter is converted into pre-paid mode, the licensee shall adjust the security deposit in the outstanding bill, if any, or pass-on the credit in the subsequent billing, as the case may be.
6. No security shall be charged from Lifeline consumer, but at the time the consumer gets converted into a normal consumer then security shall be charged as per the above table.
7. 40% higher amount of security shall be charged from temporary connection of the respective category considering actual period of connection and expected amount of bill except those released through prepaid meter.
8. **The enhancement of the Sanctioned Load:**
 - a) In case of an increase in recorded maximum demand, the lowest of the monthly maximum demand, where the recorded maximum demand has exceeded the sanctioned load limit at least three times during a financial year, shall be considered as the revised Sanctioned Load, and the same shall be automatically reset from the billing cycle in next financial year. However, the consumer should be intimated of such revision along with the complete details of the basis on which sanctioned load has been increased.
 - b) In case of request made by the consumer, the requested load shall be sanctioned.
In both the above cases of enhancement of load, the security for the total load after enhancement shall be deposited by the consumer as per the rates given in the Cost Data Book and credit shall be given for the already deposited security.

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9. Any reduction in the sanctioned load shall be carried out as per the provisions of the Supply Code and any excess security deposit of the consumer with the licensee shall be refunded by the licensee through adjustment in their future electricity bills.
10. The security may be adjusted against any outstanding bill after permanent disconnection.
11. The security may be enhanced or reduced subsequently as per provisions of the Electricity Supply Code.
12. Interest on security shall be paid by the licensee to the consumer as per bank rate prescribed by the R.B.I. (Refer Clause 4.20(i) of the Code, 2005).
13. Payment of security amount up to Rupees Twenty lacs (Rupees 20,00,000 only) has to be made by way of Banker's Cheque/Demand Draft or Online mode and for security amount being above Rupees Twenty lacs (Rupees 20,00,000 only), the payment of first twenty lacs (Rs. 20,00,000 only) has to be made by way of Banker's Cheque/Demand Draft or online mode and the amount exceeding Rupees Twenty lacs (Rupees 20,00,000 only) may be made by way of Bank guarantee/e-Bank Guarantee if consumer so desires. Any consumer, who has previously submitted a physical Bank Guarantee shall be allowed to replace it with e-Bank Guarantee, if consumer so desires.
14. For contracted loads exceeding 10 MW, the total security amount may be made by way of Bank guarantee/e-Bank Guarantee. The renewal of Bank guarantee/e-Bank Guarantee shall be the responsibility of the consumer. If any default in renewal of Bank guarantee/e-Bank Guarantee occurs, the consumer would be liable to pay a penalty of Rs. 500 (Five Hundred only) per lac per day of guarantee amount to the licensee, subject to a maximum of 10% of the bank guarantee amount, for each default. Licensee may also disconnect the supply of power after giving a notice of 07 days in such cases.
15. In case the bank guarantee submitted by the consumer is found to be fake, the licensee would be entitled to disconnect the connection forthwith and in such cases the consumer shall be bound to submit the security amount by way of bank draft/banker's cheque or online mode only. In such case, the consumer will also be liable for prosecution under criminal laws.

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CHAPTER-5A
METERING CHARGE AND SUPPLY AFFORDING CHARGE
(For non-PTW loads upto 150 kW in Electrified Areas)

(Amt. in Rs.)

Sl. No.	Description/Load	Metering Charge		Supply Affording Charge		
		Upfront Charges at the time of connection	Monthly recurring charges	For distance upto 100 meter	For distance above 100 meter upto 300 meter	For distance more than 300 meter
1	2	3	4	5	6	
Single-phase LT Connection						
1	1 kW (Lifeline Consumers only)	1,425 (Annex-2)	84 (for 24 months from the date of connection)	1,000	3,500	Rs. 3,500 or as per actual estimate, whichever is higher
2	1 kW (other than Lifeline Consumers) to 2 kW	1,855 (Annex-2A)		1,500	3,500	Rs. 3,500 or as per actual estimate, whichever is higher
3	3 kW to 4 kW	1,908 (Annex-3)		3,500	6,500	Rs. 6,500 or as per actual estimate, whichever is higher
Three-phase LT Connection						
4	3 kW to 4 kW	5,278 (Annex-3)	Nil	6,500	13,000	Rs. 13,000 or as per actual estimate, whichever is higher
5	5 kW to 10 kW	6,358 (Annex-4)		10,000	20,000	Rs. 20,000 or as per actual estimate, whichever is higher
6	11 kW to 15 kW	6,358 (Annex-4)		20,000	40,000	Rs. 40,000 or as per actual estimate, whichever is higher
7	16 kW to 20 kW	6,358 (Annex-4)		25,000	50,000	Rs. 50,000 or as per actual estimate, whichever is higher
8	21 kW to 24 kW	6,358 (Annex-4)		35,000	70,000	Rs. 70,000 or as per actual estimate, whichever is higher
9	25 kW	12,418 (For overhead line) (Annex-6) 14,706 (For underground line) (Annex-6A)	Nil	35,000	70,000	Rs. 70,000 or as per actual estimate, whichever is higher
10	26 kW to 35 kW	12,418 (For overhead line) (Annex-6) 14,706 (For underground line) (Annex-6A)	Nil	50,000	1,00,000	Rs. 1,00,000 or as per actual estimate, whichever is higher
11	36 kW to 50 kW	12,418 (For overhead line) (Annex-6) 14,706 (For underground line) (Annex-6A)	Nil	80,000	1,60,000	Rs. 1,60,000 or as per actual estimate, whichever is higher
HT Connection						
12	51 kW to 150 kW (166 kVA)	2,48,280 (For overhead line) (Annex-7) 2,65,110 (For underground line) (Annex-7A)	Nil	1,22,000	2,22,000	Rs. 2,22,000 or as per actual estimate, whichever is higher

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Note:

1. For non-PTW loads upto 150 kW and upto 300 m distance, the charges to be paid by a consumer shall comprise of Metering charge (Col. 3) and Supply Affording Charge (Col. 4 or 5 as applicable) apart from Processing fee and Security amount. No separate estimate for line shall be given to the consumer even if line needs to be constructed to give connection to the consumer. This arrangement shall not be applicable to Undeveloped/Unelectrified Colonies for which a separate dispensation has been formulated by UPERC vide Order no. 1 of 2025 dated 27.02.2025 and by UPPCL vide letter no. 984/रेस्पो/एस-1/अविकसित कालोनी dated 21.05.2025 and they shall be required to pay only the Metering charge besides the charges specified in the above Order of the Commission.
2. Lifeline Consumers shall have the option to pay the Supply Affording Charges (For distance upto 100 meters only) partly through upfront payment of Rs 500/- and the balance through equated monthly instalments of Rs. 45/- in consumer's electricity bill for 12 months from the date of connection.
3. In case the Lifeline consumer, on account of his consumption exceeding the limit specified in the Tariff Order, gets converted into a normal consumer within 2 year from the date of connection then the difference of Supply Affording Charges, from one slab to another, shall also be payable as per the above table, if his connection has been sanctioned under the provisions of this Cost data Book.

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CHAPTER-5B

METERING CHARGE AND SUPPLY AFFORDING CHARGE

(For PTW connections and loads above 150 kW in Electrified Areas)

(Amt. in Rs.)

Sl. No.	Description/Load	Metering Charge	Supply Affording Charge (For distance more than 40 meters)
1	2	3	4
HT/EHT Connection			
1	167 kVA to 200 kVA	Line Installed by the licensee (Overhead)	2,48,280 (Annex-7) As per actual estimate. Refer Annexure-16.
		Line Installed by the licensee (Underground)	2,65,110 (Annex-7A) As per actual estimate. Refer Annexure-17/17A.
		Line Installed by the Consumer (Overhead)	1,09,950 (Annex-7) Supervision charge @ 15% of the amount calculated above.
		Line Installed by the Consumer (Underground)	1,12,470 (Annex-7A)
2	201 kVA to 1 MVA	Line Installed by the licensee (Overhead)	2,66,550 (Annex-8) As per actual estimate. Refer Annexure-16.
		Line Installed by the licensee (Underground)	2,98,140 (Annex-8A) As per actual estimate. Refer Annexure-17/17A.
		Line Installed by the Consumer (Overhead)	1,12,690 (Annex-8) Supervision charge @ 15% of the amount calculated above.
		Line Installed by the Consumer (Underground)	1,17,430 (Annex-8A)
3	Above 1 MVA up to 4 MVA	Line Installed by the licensee (Overhead)	2,89,490 (Annex-9) As per actual estimate. Refer Annexure-16.
		Line Installed by the licensee (Underground)	3,42,170 (Annex-9A) As per actual estimate. Refer Annexure-17/17A.
		Line Installed by the Consumer (Overhead)	1,16,130 (Annex-9) Supervision charge @ 15% of the amount calculated above.
		Line Installed by the Consumer (Underground)	1,24,030 (Annex-9A)
4	Above 4 MVA up to 10 MVA	Line Installed by the licensee (Overhead)	5,96,520 (Annex-10) As per actual estimate. Refer Annexure-22.
		Line Installed by the licensee (Underground)	7,82,990 (Annex-10A) As per actual estimate. Refer Annexure-23/23A.
		Line Installed by the Consumer (Overhead)	2,59,980 (Annex-10) Supervision charge @ 8% of the amount calculated above.
		Line Installed by the Consumer (Underground)	2,74,900 (Annex-10A)
5	Above 10 MVA up to 20 MVA	Line Installed by the licensee (Overhead)	5,93,340 (Annex-11) As per actual estimate. Refer Annexure-22.
		Line Installed by the licensee (Underground)	7,51,840 (Annex-11A) As per actual estimate. Refer Annexure-23/23A.
		Line Installed by the Consumer (Overhead)	2,48,850 (Annex-11) Supervision charge @ 5% of the amount calculated above.
		Line Installed by the Consumer (Underground)	2,56,780 (Annex-11A)
6	Above 20 MVA	As per actual estimate. If Line is installed by the consumer, supervision charge @ 5% of the cost of Line installation and full cost of metering system shall be charged.	

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7	Private Tube Well and Pumping set (where transformer is to be installed)		
a.	Through 25 kVA S/s	42,518 (Annex-1)	Actual estimate as per Annex-1
b.	Through 3-phase 16 kVA S/s	1,06,028 (Annex-1A)	Actual estimate as per Annex-1A
c.	Through 1-phase 10 kVA S/s	88,598 (Annex-1B)	Actual estimate as per Annex-1B
8	Private Tube Well and Pumping set (where transformer is not to be installed)		
a.	For load of 7 HP & below	5,278 for 3-Phase (Annex-5)	1. For Rural Areas: Actual estimate as per Annex-14
		3,708 for 1-Phase (Annex-5)	2. For Other Areas (on ST Pole): Actual estimate as per Annex-12
b.	For load above 7 HP	6,358 (Annex-5)	3. For Other Areas (on PCC Pole): Actual estimate as per Annex-13

Note: For connections above 33 kV level, supervision charges shall be payable as per the estimate given by UPPTCL.

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NOTE:-

1. The schedule of charges shall be taken up to the point of supply (as defined in clause 2.2(qq) of the Electricity Supply Code) and these charges shall form part of the estimate. The line up to this point shall be maintained by the distribution licensee. All installations beyond point of supply shall be installed and maintained by the consumer.
2. 'Premises' means the area/portion of the building/shed/field etc. for which, the electric connection has been applied for or sanctioned for a single consumer, as per clause 2.2(ss) of Electricity Supply Code, 2005.
3. **Metering Charges: -**
 - a) 'Fixed service line charges' shall now be referred as "Metering Charges".
 - b) Metering Charges for LT connection include the cost of AMI compatible smart meter and the cost of installation.
 - c) Metering Charges for HT/EHT connection include the cost of AMI compatible smart meter, metering cubicle, service cable, double pole and the cost of their installation.
 - d) At the time of releasing a new connection, only AMI compatible smart meter shall be installed at consumer premises.
 - e) For single phase connections (other than PTW), the AMI compatible smart meter cost shall be partly recovered through upfront payment of Rs 1000/- (for 1-Ph 2-W) and the balance through monthly recurring charge of Rs. 84/- in consumer's electricity bill for 24 months from the date of connection. However, the applicant shall have the option to pay full meter cost upfront, at the time of application, the option for which shall be provided by the licensee in the application form available on the online portal.
 - f) Only Armoured service cables shall be used for all connections. Service cable shall be provided by consumer for load up to 50 kW as per actual requirement, subject to a maximum requirement of 50 meters. However, in exceptional circumstances where service cable is not provided by consumer, the connection may be released on armoured cable arranged by the licensee and in that case, the actual cost of service cable, if not deposited upfront by the consumer, will be charged in the consumer's first electricity bill.
 - g) Metering shall be done at consumer's premises, so that it is suitable for sagging of service cable subject to a maximum distance of 40 meters between last pole of distribution mains and bracket/rag bolt at consumer end. This 40-meter distance shall be the shortest clear wire route distance between them.
 - h) Meter board shall be provided by the consumer for load up to 50 kW.
 - i) Installation of protection equipment like MCB, MCCB, VCB etc. of appropriate rating beyond metering point shall be the responsibility of the consumer. In case it is not installed by the consumer, the connection shall not be energized. However, in circumstances where consumer is not able to install such equipment, licensee, at its sole discretion, on the request of the consumer or otherwise, may provide and install such protection equipment and charge in advance or recover the actual cost (including labour, installation charges etc.) from the consumer.
 - j) Meter and metering cubicle (including CT, PT) shall be provided by the licensee.
 - k) The consumer meter shall be installed at an accessible place outside the premises, where the meter reading could be possible without opening the main gate of the premises.
 - l) Consumer shall provide separate earthing at the metering point.
 - m) If required, double metering arrangement may be done by the licensee at its own cost and security.

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4. Supply Affording Charges: -

- a) 'Variable Line charges' shall now be referred as "Supply Affording Charges".
- b) To calculate Supply Affording Charges, the line length shall be the shortest clear wire route distance between the nearest available distribution mains and bracket/rag bolt at consumer end. Required up-gradation of the nearest available distribution mains shall be the responsibility of the distribution licensee and nothing shall be charged for this purpose. Fraction of meter shall be ignored in measuring length of line.
- c) The Supply Affording Charges mentioned above are inclusive of Labour and overhead charges, and no additional labour and overhead cost shall be charged from the consumer.
- d) The quantity of material mentioned in Annexure-12 to Annexure-23A may vary as per the actual site requirements and the estimates shall be prepared accordingly.
- e) The rate of materials mentioned in Annexures-1 to Annexure-30 include Ex-works Price, Protection equipment price (if any), Freight & Insurance, GST and 3% Testing & Inspection charges.
- f) For underground line the road restoration charges levied by concerned authorities like NHAI, UPPWD, Municipal Corporations etc. shall also be payable by consumer as per actuals.
- g) In case of enhancement of load (either on application by consumer or utilization of excess load in any month) from one slab to another for non-PTW loads up to 150 kW in electrified areas (for distance up to 300 meters) who have been sanctioned their electricity connections under the provisions of this Cost data Book, within 2 year from the date of connection, the difference of Supply Affording Charges shall also be payable by the consumer . However, the load for all other consumers, including the existing consumers, shall continue to be enhanced as per the provisions of the Supply Code and its amendments.
- h) The above Supply Affording Charges shall not be applicable for residents of Multi-point/ Multi-story buildings/complexes and only the Metering charge shall be applicable. They will continue to be governed as per the 13th Amendment to the Electricity Supply Code, 2005 and subsequent Orders of the Commission in this regard.

- 5. Supply Affording Charge in case of Railway/Metro/RRTS/River Crossing/National and State highways/Expressway or any such major obstruction shall be charged as per actual expenses wherever applicable.
- 6. The PTW connections shall continue to be released as per Annexures 1 and 5. Any subsidy for PTW consumers in respect of new connection shall be deducted from the estimate. Concreting material (brick, ballast, sand, and cement) and labour shall be provided by the consumer. However, actual requirement of material etc. shall be communicated by the licensee to the consumer while offering terms and conditions for PTW connections.
- 7. For non-PTW loads up to 50 kW, the infrastructure for releasing connections shall be developed by the licensee only and the applicant shall pay charges as per Note 11 and 12 below.
- 8. For non-PTW loads from 51 kW to 150 kW/166 kVA, the infrastructure for releasing connection within 300-meter distance from existing LT/HT main shall be developed by the licensee only and the applicant shall pay charges as per Note 13 below.
- 9. For non-PTW loads from 51 kW to 150 kW/166 kVA and situated at more than 300-meter distance from existing LT/HT main, the applicant shall have an option to develop infrastructure himself by depositing supervision charges calculated on charges mentioned in Col. 6 of

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Chapter 5A. The licensee shall ensure that the materials used for construction by the applicant are in accordance with the licensee's specifications.

10. For loads above 150 kW/166 kVA, the applicant shall have an option to develop infrastructure himself by depositing supervision charges calculated on charges mentioned in Col. 4 of Chapter 5B.

11. **In case of application for load below 5 kW (Single Phase): -**

a) **If the premises is within 300 meters from Licensee's existing LT main: -**

The Licensee shall release connection by extending 1-phase LT main, if necessary, and connecting the service line from the existing/extended LT main up to the consumer premises. The applicant shall pay Processing fee, Security charge, Metering Charges (Col. 3 of Chapter 5A) and Supply Affording Charge (Col. 4 or 5 of Chapter 5A) to the licensee for releasing such connection. No other charges for extension/strengthening of LT main shall be payable by the consumer in this case.

b) **If the premises is more than 300 meters from Licensee's existing LT main: -**

The Licensee shall release connection by extending 1-phase LT line and connecting the service line from the extended LT main up to the consumer premises. The applicant shall pay Processing fee, Security charge, Metering Charges (Col. 3 of Chapter 5A) and Supply Affording Charge (Col. 6 of Chapter 5A) to the licensee for releasing such connection. The cost of strengthening of existing LT main shall be borne by the licensee.

12. **In case of application for load of 3 kW and above up to 50 kW (Three Phase): -**

a) **If the premises is within 300 meters from Licensee's existing 1-phase/2-phase/3-phase LT main: -**

The Licensee shall carry out the conversion of existing 1-phase/2-phase LT main to 3-phase LT main and extension of such converted/existing 3-phase LT main, if necessary. The applicant shall pay Processing fee, Security charge, Metering Charges (Col. 3 of Chapter 5A) and Supply Affording Charge (Col. 4 or 5 of Chapter 5A) to the licensee for releasing such connection. No other charges for strengthening or conversion of LT main shall be payable by the consumer in this case.

b) **If the premises is more than 300 meters from Licensee's existing 1-phase/2-phase/3-phase LT main: -**

The Licensee shall carry out the conversion, if necessary, of existing 1-phase/2-phase LT main to 3-phase LT main and extension of existing/converted 3-phase LT main for releasing connection. The applicant shall pay Processing fee, Security charge, Metering Charges (Col. 3 of Chapter 5A) and Supply Affording Charge (Col. 6 of Chapter 5A) to the licensee for releasing such connection. The cost of conversion and strengthening of 1-phase/2-phase LT main to 3-phase LT main shall be borne by the licensee.

13. **In case of application for load above 50 kW: -**

i) All loads above 50 kW (or 56 kVA) shall be released on HT/EHT and the electrical infrastructure beyond metering cubicle (towards consumer side) like Transformer, VCB etc. shall be arranged by the consumer.

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ii) **For load above 50 kW and up to 150 kW: -**

a. **If the premises is within 300 meters from Licensee's existing HT main: -**

The Licensee shall release connection by extending HT main, if necessary, and connecting the service line from the existing/extended HT main up to the consumer premises. The applicant shall pay Processing fee, Security charge, Metering Charges (Col. 3 of Chapter 5A) and Supply Affording Charge (Col. 4 or 5 of Chapter 5A) to the licensee for releasing such connection. No charges for strengthening of existing HT main shall be payable by the consumer in such case.

b. **If the premises is more than 300 meters from Licensee's existing HT main: -**

The Licensee shall release connection by extending HT main and connecting the service line from the extended HT main up to the consumer premises. The applicant shall pay Processing fee, Security charge, Metering Charges (Col. 3 of Chapter 5A) and Supply Affording Charge (Col. 6 of Chapter 5A) to the licensee for releasing such connection. No charges for strengthening of existing HT main shall be payable by the consumer in such case.

iii) **For load above 150 kW/166 kVA: -**

a. **If the premises is within 40 meters from Licensee's existing HT main: -**

The Licensee shall release connection by connecting the service line from the existing HT main up to the consumer premises. The applicant shall pay Processing fee, Security charge and Metering Charges (Col. 3 of Chapter 5B) to the licensee for releasing such connection. No charges for strengthening of existing HT main shall be payable by the consumer in this case.

b. **If the premises is beyond 40 meters from Licensee's existing HT main: -**

The Licensee shall release connection by extending HT main and connecting the service line from the extended HT main up to the consumer premises. The applicant shall pay Processing fee, Security charge, Metering Charges (Col. 3 of Chapter 5B) and Supply Affording Charge (Col. 4 of Chapter 5B) to the licensee for releasing such connection. No charges for strengthening of existing HT main shall be payable by the consumer in such case.

14. The Licensee shall release connection at a voltage and phase as indicated below: -

Sr. No.	Load Range	Supply Voltage System
1	Below 3 kW	LT (1-phase at 230 V)
2	3 kW and 4 kW	LT (either 1-phase at 230 V or 3-phase at 400 V as per consumer request)
3	5 kW and above up to 50 kW (56 kVA)	LT (3-phase at 400 V)
4	Above 50 kW (56 kVA) up to 4 MVA	HT (3-phase at 11 kV)
5	Above 4 MVA up to 20 MVA	HT (3-phase at 33 kV)
6	Above 20 MVA	EHT (3-phase at 132/220 kV)

a) Electric Vehicle (LMV-11 category) connections above 50 kW may be released on LT at the request of the applicant, if he is willing to bear all charges as per actual estimate, subject to technical feasibility and capacity availability on the distribution network.

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15. In case of enhancement of load, labour and overhead charges shall be charged as below:-

(A)	If the enhanced load is in the same voltage/ phase range as mentioned in the Point no. 14 above	Nil
(B)	If the enhanced load is in the higher voltage/ phase range as mentioned in Point no. 14 above	Labour & overhead charge for enhanced load as per applicable Annexure

16. In case of shifting of line/PTW connection, the relevant charges to be claimed will be labour cost for dismantling the existing line plus the material cost for additional material to be used plus labour cost for erection of altered line. In case of PTW connection, no labour cost shall be charged as the line is to be constructed by the consumer himself. A non-refundable and non-adjustable Processing fee as per Chapter 3 shall be charged before carrying out the works.

17. The supervision charges shall be charged at the rate of 15% for shifting of the installed line/equipment/plants, except for the works of National Highways Authority of India (NHAI), Uttar Pradesh Metro Rail Corporation (UPMRC) and Uttar Pradesh Public Works Department (UPPWD) for which supervision charges shall be 5%.

18. For giving connection through 11 kV independent feeders, Rs. 6.61 lacs will be additionally charged for the cost of circuit breaker and double pole as per Annexure-30. If the connection is provided through underground cable, then the cost of double pole shall not be charged by the distribution licensee.

19. For giving connection through 33 kV independent feeders, the applicant shall deposit the actual estimated cost including the costs of Circuit Breaker, Line Isolator, Bus Isolator, Current Transformer, Lightning Arrestor etc.

20. Supply Affording Charge for temporary connection shall be the same as charged in case of a permanent/regular connection (Chapters 5A and 5B).

21. The licensee shall not charge processing fee, Security, Metering charge and Supply Affording charge from its permanent employees and pensioners for one connection at any point of time during their period of service or on retirement.

22. In case the applicant withdraws his application after making payment of supply affording charge and no work has been undertaken, the supply affording charge shall be refunded after deducting @20% per month or part thereof, with the time being calculated from the date of deposit till the date of application for withdrawal. However, if the licensee has commenced the work no refund shall be given.

23. The Cost Data Book shall be effective from the date of its coming into effect. However, the connections which are under process and could not be released till then due to any reason whatsoever shall not be reopened and such connections shall be released on the basis of previous conditions.

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Example of applicable charges:-

i) **Application for 2 kW load (Rural Domestic LMV-1) :-**

Charges applicable	Amount to paid by consumer (in Rs.)		
	For distance ≤ 100 m	For distance 101 m to 300 m	For distance > 300 m
Processing Fee	200	200	200
Security Amount	200	200	200
Metering Charge	1,855	1,855	1,855
Supply Affording Charge	1,500	3,500	3,500 or as per actual estimate, whichever is higher
Total	3,755	5,755	2,255 + (3,500 or as per actual estimate, whichever is higher)

ii) **Application for 25 kW load (Urban Commercial LMV-2) :-**

Charges applicable	Amount to paid by consumer (in Rs.)		
	For distance ≤ 100 m	For distance 101 m to 300 m	For distance > 300 m
Processing Fee	5,000	5,000	5,000
Security Amount	25,000	25,000	25,000
Metering Charge (For O/H Line)	12,418	12,418	12,418
Supply Affording Charge	35,000	70,000	70,000 or as per actual estimate, whichever is higher
Total	77,418	1,12,418	42,418 + (70,000 or as per actual estimate, whichever is higher)

iii) **Application for 100 kVA (90 kW) load (Non-Industrial HV-1) :-**

Charges applicable	Amount to paid by consumer (in Rs.)		
	For distance ≤ 100 m	For distance 101 m to 300 m	For distance > 300 m
Processing Fee	10,000	10,000	10,000
Security Amount	5,00,000	5,00,000	5,00,000
Metering Charge (For O/H Line)	2,48,280	2,48,280	2,48,280
Supply Affording Charge	1,22,000	2,22,000	2,22,000 or as per actual estimate, whichever is higher
Total	8,80,280	9,80,280	7,58,280+(2,22,000 or as per actual estimate, whichever is higher)

iv) **Application for 200 kVA (180 kW) load (Industrial HV-2) :-**

Charges applicable	Amount to paid by consumer (in Rs.)	
	For distance ≤ 40 m	For distance > 40 m
Processing Fee	10,000	10,000
Security Amount	7,00,000	7,00,000
Metering Charge (For O/H Line)	2,48,280	2,48,280
Supply Affording Charge	0	Actual estimate as per Annexure-16 or 17/17A
Total	9,58,280	9,58,280 + Actual estimate as per Annexure-16 or 17/17A

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Charges For Private Tube Well and Pump Set through 25 kVA S/s

A.	Metering charge per connection:-			
	Amount chargeable to consumer	(Annexure-5)	=	Rs. 6358
B.	Fixed charge per connection for transformer: -			
(i)	Cost of 25 kVA S/S on PCC Pole	(Annexure-24)	=	Rs. 144543
(ii)	Cost of concreting of poles	(Annexure-24)	(-)	Rs. 1884
(iii)	Cost of concreting of stays	(Annexure-24)	(-)	Rs. 834
(iv)	Labour & overhead charges	(Annexure-24)	(-)	Rs. 33356
(v)	Cost of 25 kVA S/s excluding cost of concreting and labour charges		=	Rs. 108469
			Say	Rs. 108470
Assuming 3 connections on one 25 kVA sub-station, cost per connection excluding cost of concreting and labour charges				= Rs. 36157
			Say	Rs. 36160
C.	Total fixed charge (A+B):-			
	Amount chargeable to consumer	= 6358 + 36160	=	Rs.42518
D.	Supply affording charge:-			
(i)	Cost of 1 km 11 kV line on PCC Pole	(Annexure-16)	=	Rs. 369728
(ii)	Cost of concreting of poles	(Annexure-16)	(-)	Rs. 16014
(iii)	Cost of concreting of stays	(Annexure-16)	(-)	Rs. 834
(iv)	Labour & overhead charges	(Annexure-16)	(-)	Rs. 85322
Cost of 1 km 11 KV line excluding cost of concreting and labour charges				= Rs. 267558
		Cost of 11 kV line per meter	Say	Rs. 268/-

Note:-

1. Applicant shall pay total charges under deposit scheme.
2. In case the applicant chooses to procure material by himself, he shall procure materials only from the vendors empanelled by the licensee. The applicant/consumer shall be liable for maintenance and repair of such material till the expiry of its guarantee period.

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Charges For Private Tube Well and Pump Set through three phase 16 kVA S/s

A.	Metering charge per connection: -		
	Amount chargeable to consumer	(Annexure-5)	= Rs. 6358
B.	Fixed charge per connection for transformer: -		
(i)	Cost of 16 kVA S/S on PCC Pole	(Annexure-24A)	= Rs. 133101
(ii)	Cost of concreting of poles	(Annexure-24A)	(-) Rs. 1884
(iii)	Cost of concreting of stays	(Annexure-24A)	(-) Rs. 834
(iv)	Labour & overhead charges	(Annexure-24A)	(-) Rs. 30716
Assuming 1 connection on one 16 kVA sub-station, cost of connection excluding cost of concreting and labour charges			= Rs. 99667
			Say Rs. 99670
C.	Total fixed charge (A+B): -		
	Amount chargeable to consumer	=6358 + 99670	= Rs. 106028
D.	Supply affording charge: -		
(i)	Cost of 1 km 11 KV line on PCC Pole	(Annexure-16)	= Rs. 369728
(ii)	Cost of concreting of poles	(Annexure-16)	(-) Rs. 16014
(iii)	Cost of concreting of stays	(Annexure-16)	(-) Rs. 834
(iv)	Labour & overhead charges	(Annexure-16)	(-) Rs. 85322
Cost of 1 km 11 KV line excluding cost of concreting and labour charges			= Rs. 267558
	Cost of 11 KV line per meter		Say Rs. 268/-

Note:-

1. Applicant shall pay total charges under deposit scheme.
2. In case the applicant chooses to procure material by himself, he shall procure materials only from the vendors empanelled by the licensee. The applicant/consumer shall be liable for maintenance and repair of such material till the expiry of its guarantee period.




Charges For Private Tube Well and Pump Set through single phase 10 kVA S/s

A.	Metering charge per connection: -			
	Amount chargeable to consumer	(Annexure-5)	=	Rs. 6358
B.	Fixed charge per connection for transformer:-			
(i)	Cost of 10 kVA S/S on PCC Pole	(Annexure-24B)	=	Rs. 108676
(ii)	Cost of concreting of poles	(Annexure-24B)	(-)	Rs. 942
(iii)	Cost of concreting of stays	(Annexure-24B)	(-)	Rs. 417
(iv)	Labour & overhead charges	(Annexure-24B)	(-)	Rs. 25079
Assuming 1 connection on one 10 kVA sub-station, cost of connection excluding cost of concreting and labour charges				= Rs. 82238
			Say	Rs. 82240
C.	Total fixed charge (A+B):-			
	Amount chargeable to consumer	= 6358 + 82240	=	Rs. 88598
D.	Supply affording charge:-			
(i)	Cost of 1 km 11 kV line on PCC Pole (3-phase)	(Annexure-16)	=	Rs. 369728
(ii)	Cost of concreting of poles	(Annexure-16)	(-)	Rs. 16014
(iii)	Cost of concreting of stays	(Annexure-16)	(-)	Rs. 834
(iv)	Labour & overhead charges	(Annexure-16)	(-)	Rs. 85322
Cost of 1 km 11 KV line excluding cost of concreting and labour charges				= Rs. 267558
		Cost of 11 kV line per meter	Say	Rs. 268/-

Note:-

1. Applicant shall pay total charges under deposit scheme.
2. In case the applicant chooses to procure material by himself, he shall procure materials only from the vendors empanelled by the licensee. The applicant/consumer shall be liable for maintenance and repair of such material till the expiry of its guarantee period.

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ANNEXURE-2**Metering Charge****For Load 1 kW (For Lifeline Consumers-Urban & Rural)****Overhead Services**

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	2×4 mm ² PVC armoured Cable with catenary arrangement	Mtr.	58	50	2900
2	1 Ph-2 W Smart meter (AMI compatible) with meter box	No	1000	1	1000*
3	Labour & overhead charges	L.S		L.S.	425
	Total				4325

Note:- Armoured cable shall be provided by consumer.

Amount chargeable to consumer **4325-2900= Rs. 1425**

Note: * Against the cost of the 1 Ph-2 W Smart meter (AMI compatible) with meter box, Rs 1000/- shall be charged at the time of application and balance amount shall be recovered by the licensee in 24 Equated Monthly Instalments of Rs. 84/- which include carryover charges calculated @ Interest on term loan.

However, the applicant shall have the option to pay the entire meter cost of Rs. 2800/- at the time of application itself.

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ANNEXURE-2A**Metering Charge
For Load up to 2 kW (Other than Lifeline consumers)
for Overhead Services**

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	2×4 mm ² PVC armoured Cable with catenary arrangement	Mtr.	58	50	2900
2	1 Ph-2 W Smart meter (AMI compatible) with meter box	No	1000	1	1000*
3	Labour & overhead charges	L.S.		L.S.	855**
	Total				4755

Note:- Armoured cable shall be provided by consumer.

Amount chargeable to consumer 4755-2900= Rs. 1855

Note: * Against the cost of the 1 Ph-2 W Smart meter (AMI compatible) with meter box, Rs 1000/- shall be charged at the time of application and balance amount shall be recovered by the licensee in 24 Equated Monthly Instalments of Rs. 84/- which include carryover charges calculated @ Interest on term loan.

However, the applicant shall have the option to pay the entire meter cost of Rs. 2800/- at the time of application itself.

** The Labour & overhead charges have been calculated @15% on the sum of armoured cable cost and the total meter cost {0.15*(2900+2800) = 855}.

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Metering Charge
For Load 3 kW and 4 kW (Single Phase/Three Phase)
Overhead Services

S.No	Particulars	Unit	Qty	Single Phase		Three Phase	
				Rate	Amt. (Rs.)	Rate	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	4x10 mm ² armoured Cable with catenary arrangement	Mtr.	50			75	3750
2	2x6 mm ² armoured Cable with catenary arrangement	Mtr.	50	65	3250		
3	3 Phase-4 W Smart meter (AMI Compatible) with meter box	No	1			4100	4100
4	1 Ph-2 W Smart meter (AMI compatible)	No	1	1000	1000*		
5	Labour & overhead charges	L.S.			908**		1178
Total					5158		9028

Note: - Armoured cable shall be provided by consumer.

Amount chargeable to consumer	<u>Three Phase</u> 9028-3750= 5278	<u>Single Phase</u> 5158-3250= 1908
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Note: * Against the cost of the 1 Ph-2 W Smart meter (AMI compatible) with meter box, Rs 1000/- shall be charged at the time of application and balance amount shall be recovered by the licensee in 24 Equated Monthly Instalments of Rs. 84/- which include carryover charges calculated @ Interest on term loan.

However, the applicant shall have the option to pay the entire meter cost of Rs. 2800/- at the time of application itself.

** The Labour & overhead charges have been calculated @15% on the sum of armoured cable cost and the total meter cost {0.15*(3250+2800) = 908}.




Metering Charge
For Load 3 kW and 4 kW (Single Phase/Three Phase)
Underground Services

S.No	Particulars	Unit	Qty	Single Phase		Three Phase	
				Rate	Amt. (Rs.)	Rate	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	4x10 mm ² armoured Cable	Meter	50			75	3750
2	2Cx10 mm ² armoured cable	Meter	50	90	4,500		
3	PVC pipe of 2" Diameter	Meter	5	35	175	35	175
4	10 mm ² Aluminium thimble	No	4 / 8	2	8	2	16
5	3 Phase-4 W Smart meter (AMI Compatible) with meter box	No	1			4100	4100
6	1 Ph-2 W Smart meter (AMI compatible) with meter box	No	1	1000	1000*		
	Labour & overhead charges				1122**		1206
	Total				6,805		9,247

Note: -Armoured cable shall be provided by consumer.

	<u>Three Phase</u>	<u>Single Phase</u>
Amount chargeable to consumer	9247-3750= 5497	6805- 4500= 2305

Note: * Against the cost of the 1 Ph-2 W Smart meter (AMI compatible) with meter box, Rs 1000/- shall be charged at the time of application and balance amount shall be recovered by the licensee in 24 Equated Monthly Instalments of Rs. 84/- which include carryover charges calculated @ Interest on term loan. However, the applicant shall have the option to pay the entire meter cost of Rs. 2800/- at the time of application itself.

** The Labour & overhead charges have been calculated @15% on the sum of armoured cable cost, total meter cost and other items {0.15*(4500+2800+175+8) = 1122}.

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ANNEXURE-4**Metering Charge****Load 5 kW or more but below 25 kW****Overhead services**

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	4x25 mm ² XLPE armoured Cable with catenary arrangement	Mtr.	219	50	10950
2	3 Phase-4 W Smart meter (AMI Compatible) with meter box	No	4100	1	4100
3	Labour & overhead charges	L.S.		L.S.	2258
	Total				17308

Note: - Armoured cable shall be provided by consumer.

Amount chargeable to consumer 17308-10950= 6358

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ANNEXURE – 4A**Metering Charge****Load 5 kW or more but below 25 kW****Underground Services**

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	3.5C x 35 mm ² armoured cable	Meter	220	50	11,000
2	PVC PIPE 3" Diameter	Meter	50	8	400
3	16 mm ² Aluminium Thimble	No.	4	2	8
4	35 mm ² Aluminium Thimble	No.	8	6	48
5	3 Phase-4 W Smart meter (AMI Compatible) with meter box	No	4100	1	4,100
6	Sundry Items	Lot.	245	1	245
7	Labour & overhead charges	L.S.		L.S.	2370
Total					18,171
Note: -Armoured cable shall be provided by consumer.					

Amount chargeable to consumer**18171-11000=7171**

Metering Charge**PTW connection for load above 7 HP where only cable connection is required**

S. No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	4×25 mm ² XLPE-armoured Cable with catenary arrangement	Mtr.	219	50	10950
2	3 Phase-4 W Smart meter (AMI Compatible) with meter box	No	4100	1	4100
3	Labour & overhead charges	L.S.		L.S.	2258
	Total				17308

Note:- Armoured cable shall be provided by consumer.

Amount chargeable to consumer 17308-10950= 6358

PTW connection for load 1 HP to 7 HP where only cable connection is required

S.No	Particulars	Unit	Qty	Single Phase		Three Phase	
				Rate	Amt. (Rs.)	Rate	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	4×10 mm ² armoured Cable with catenary arrangement	Mtr.	50			75	3750
2	2×6 mm ² armoured Cable with catenary arrangement	Mtr.	50	65	3250		
3	3 Phase-4 W Smart meter (AMI Compatible) with meter box	No	1			4100	4100
4	1 Ph-2 W Smart meter (AMI compatible) with meter box	No	1	2800	2800		
5	Labour & overhead charges	L.S.			908		1178
	Total				6958		9028

Note:- Armoured cable shall be provided by consumer.

Three Phase	Single Phase
Amount chargeable to consumer	9028-3750= 5278
	6958-3250= 3708

Note: - For PTW connections, the supply shall be provided as follows:

Load for PTW or Pumping Set	Type of supply
7 HP or below	Single Phase/ Three phase
Above 7 HP	Three-phase




ANNEXURE-6**Metering Charge****Load 25 kW or more upto 50 kW (56 kVA)****Overhead services**

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	3.5×70 mm ² Armoured Cable with catenary arrangement	Mtr.	360	50	18000
2	3 Phase-4 W, LT-CT connected Smart meter (AMI Compatible)	No	8450	1	8450
3	Labour & overhead charges	L.S.		L.S.	3968
	Total				30418

Note:- Armoured cable shall be provided by consumer.**Amount chargeable to consumer**

30418-18000 =

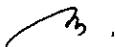
Rs. 124185y3

ANNEXURE-6A**Metering Charge****Load 25 kW or more upto 50 kW (56 kVA)****Underground services**

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	Cable 1100V, XLPE 70 mm ² , 3.5 Core	Mtr.	360	50	18000
2	3 Phase-4 W, LT-CT connected Smart meter (AMI Compatible)	No	8450	1	8450
3	100 mm Dia. x 1 M long RCC half round muff for cables.	No	50	25	1250
4	Bracket clamps for three phase meter box.	No	238	1	238
5	Clamps-Three phase meter box	No	172	1	172
6	Sundry items	No	330	1	330
7	Labour & overhead charges	L.S.			4266
Total					32706
Note:- Armoured cable shall be provided by consumer.					

Amount chargeable to consumer

32706-18000=

Rs. 14706

Metering Charge**Load above 50 kW/56 kVA upto 200 kVA****Overhead Services**

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A Service Line Installation					
1	3x70 mm ² 11 KV XLPE Cable	Mtr.	688	50	34400
2	I/D & O/D Cable Jointing Kit suitable for 3x70 mm ² XLPE Cable	No	8333	2	16666
3	GI Pipe 6" dia	Mtr.	1773	8	14184
4	Earthing Complete	No	664	4	2656
5	11 KV Stay Set	No.	506	4	2024
6	ACSR Dog Conductor	Mtr.	126	60	7560
7	11 KV Polymeric Pin Insulator	No.	147	6	882
8	11 KV Pin with nut	No.	62	6	372
9	11 KV Polymeric Disc Insulator	No.	122	3	366
10	11 KV Disc fitting	No.	125	3	375
11	Top Channel M.S. 100x50x2240 mm	No.	909	1	909
12	Dropper Channel M.S. 100x50x2000 mm	No.	812	1	812
13	ST Pole 11 Mtr.	No.	17492	2	34984
14	Concreting of Support	No.	942	2	1884
15	Number Plate with clamp	No.	281	1	281
16	Danger board with clamp	No.	286	1	286
17	Barbed Wire G.I.	Kg.	117	4	468
18	Aluminium Paint	Ltr.	297	1	297
19	Concreting of stay	No.	417	4	1668
20	Clamp with bolt & nut	No.	257	16	4112
Sub Total					
21	Labour & overhead charges	L.S.		L.S.	37556
Sub Total Service line Installation					
B Metering system					
22	3 Phase-4 W, 11 KV Smart Meter (AMI Compatible)	No.	14850	1	14850
23	11 KV Pilfer proof metering cubicle	No.	50948	1	50948
Sub Total					
24	Labour & overhead charges	L.S.		L.S.	19739
Sub Total Metering System					
Total Service Line + metering					

Amount chargeable to consumer :

(A) Line installed by licensee: Rs.	248279	Say Rs.	248280
(B) Line installed by consumer: Rs.	162742	×0.15 +	85537
		= 109949	Say Rs. 109950

ANNEXURE-7A

Metering Charge

Load above 50 kW/ 56 kVA upto 200 kVA

Underground Services

Sl. No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A Service Line Installation					
1	Cable 11 kV (E) XLPE 70 mm ² 3-Core Aluminium conductor (EC Grade)	Mtr.	688	100	68800
2	Straight through joint for 11 kV (E) 70 mm ² 3 – Core A2XCEFY compact Aluminium	No.	8751	2	17502
3	Indoor type cable termination for 11 kV (E) 70 mm ² 3-Core A2XCEFY Compact Aluminium	No.	4007	4	16028
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter long	Roll	2677	2	5354
5	140 mm OD PN-4 PE - 80 Grade UV stabilised HDPE pipe as per IS:4984 in 6 Meter	No.	4026	1	4026
6	Rigid PVC pipes: Size 110 mm OD X thickness 6.1 mm X 2.5 mtr long	No.	688	6	4128
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	1166	2	2332
8	Hot Dip Galvanised Earthing Strip of size 50 mm X 6 mm X 2500 mm long	No.	569	20	11380
9	Epoxy Compound General Purpose	KG	274	0.4	110
10	Hot Dip Galvanized cable support clamp for 120 mm ² to 150 mm ² 3 core Cable	No.	723	4	2892
11	6" Dia RCC half round muff for HT cables	No.	62	90	5580
Sub Total					138132
12	Labour and overhead charges	L.S.			41439
Sub Total Service Line Installation					179571
B Metering System					
13	3 Phase-4 W, 11 kV Smart Meter (AMI Compatible)	No.	14850	1	14850
14	11 kV Pilfer proof metering cubicle	No.	50948	1	50948
Sub Total					65798
Labour and overhead charges					19739
Sub Total Metering System					85537
Total Service Line + Metering					265108

Amount chargeable to consumer:

(A) Line installed by licensee Rs. 265108 say Rs. 265110 **265110**

(B) Line installed by consumer Rs. 179571 x 0.15 + 85537 = Rs. 112473 say Rs. 112470 **112470**

Note: Ring main unit shall be installed wherever Ring Main System exists, and its cost shall be borne by the applicant/consumer.

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Metering Charge**Load above 200 kVA upto 1 MVA****Overhead Services**

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A Service Line Installation					
1	3x120 mm ² 11 KV XLPE Cable	Mtr.	946	50	47300
2	I/D & O/D Cable Jointing Kit suitable for 11 KV 3x120 mm ² XLPE Cable	No.	8911	2	17822
3	GI Pipe 6" dia	Mtr.	1773	8	14184
4	Earthing Complete	No.	664	4	2656
5	11 KV Stay Set	No.	506	4	2024
6	ACSR Dog Conductor	Mtr.	126	60	7560
7	11 KV Polymeric Pin Insulator	No.	147	6	882
8	11 KV Pin with nut	No.	62	6	372
9	11 KV Polymeric Disc Insulator	No.	122	3	366
10	11 KV Disc fitting	No.	125	3	375
11	Top Channel M.S. 100x50x2240 mm	No.	909	1	909
12	Dropper Channel M.S. 100x50x2000 mm	No.	812	1	812
13	ST Pole11 Mtr.	No.	17492	2	34984
14	Concreting of Support	No.	942	2	1884
15	Number Plate with clamp	No.	281	1	281
16	Danger board with clamp	No.	286	1	286
17	Barbed Wire G.I.	Kg.	117	4	468
18	Aluminium Paint	Ltr.	297	1	297
19	Concreting of stay	No.	417	4	1668
20	Clamp with bolt & nut	No.	257	16	4112
Sub Total					139242
21	Labour & overhead charges	L.S.		L.S.	41773
Sub Total Service line Installation					181015
B Metering system					
22	3 Phase-4 W, 11 KV Smart Meter (AMI Compatible)	No.	14850	1	14850
23	11 KV Pilfer proof metering cubicle	No.	50948	1	50948
Sub Total					65798
24	Labour & overhead charges	L.S.		L.S.	19739
Sub Total Metering System					85537
Total Service Line + metering					266552

Amount chargeable to consumer:

(A) Line installed by licensee : Rs.	266552	Say Rs.	266550
(B) Line installed by consumer : Rs.	181015 × 0.15 +	85537	
	= 112690	Say Rs.	112690

ANNEXURE-8A

Metering Charge

Load above 200 kVA upto 1 MVA

Underground Services

Sl. No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A	Service Line Installation				
1	Cable 11 KV (E) XLPE 120 mm ² / 3 - Core Aluminium conductor (EC Grade)	Meter	946	100	94600
2	Straight through joint for 11 kV (E) 120 mm ² 3 – Core A2XCEFY Compact Aluminium	No.	8897	2	17794
3	Indoor type cable termination for 11 KV (E) 120 mm ² 3-Core A2XCEFY Compact	No.	4162	2	8324
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter Long	Roll	2677	2	5354
5	140 mm OD PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 in 6 meter	No.	4026	1	4026
6	Rigid PVC pipes: Size 110 mm OD x thickness 6.1 mm x 2.5 metre Long	No.	688	6	4128
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	1166	2	2332
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	569	20	11380
9	EPOXY Compound General Purpose	KG	274	0.4	110
10	Hot Dip Galvanized cable support clamps for 120 mm ² to 150 mm ² 3-Core Cable	No.	723	4	2892
11	6" Dia RCC half round Muffs for HT Cables	No.	62	150	9300
12	Sundry Items	L.S.	3300	1	3300
Sub Total					163540
13	Labour and overhead @ 30% material cost	L.S.			49062
Sub Total Service Line Installation					212602
B	Metering System				
14	3 Phase-4 W, 11 kV Smart Meter (AMI Compatible)	No.	14850	1	14850
15	11 KV Pilfer proof metering cubicle	No.	50948	1	50948
Sub Total					65798
16	Labour & overhead charges	L.S.			19739
Sub Total metering system					85537
Total Service line metering					298139
Amount chargeable to consumer					
(A) Line installed by licensee Rs. 298139 Say 298140					298140
(B) Line installed by consumer Rs. 212602 x 0.15 + 85537 = Rs. 117427 say Rs.117430					117430

Note: Ring main unit shall be installed wherever Ring Main System exists, and its cost shall be borne by the applicant/consumer.

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ANNEXURE-9

Metering Charge

Load above 1 MVA upto 4 MVA

Overhead Services

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A Service Line Installation					
1	3×185 mm ² 11 KV XLPE Cable	Mtr.	1271	50	63550
2	I/D & O/D Cable Jointing Kit suitable for 11 KV 3×185 mm ² XLPE Cable	No.	9608	2	19216
3	GI Pipe 6" dia	Mtr.	1773	8	14184
4	Earthing Complete	No.	664	4	2656
5	11 KV Stay Set	No.	506	4	2024
6	ACSR Dog Conductor	Mtr.	126	60	7560
7	11 KV Polymeric Pin Insulator	No.	147	6	882
8	11 KV Pin with nut	No.	62	6	372
9	11 KV Polymeric Disc Insulator	No.	122	3	366
10	11 KV Disc fitting	No.	125	3	375
11	Top Channel M.S. 100×50×2240 mm	No.	909	1	909
12	Dropper Channel M.S. 100×50×2000 mm	No.	812	1	812
13	STP Pole11 Mtr.	No.	17492	2	34984
14	Concreting of Support	No.	942	2	1884
15	Number Plate with clamp	No.	281	1	281
16	Danger board with clamp	No.	286	1	286
17	Barbed Wire G.I.	Kg.	117	4	468
18	Aluminium Paint	Ltr.	297	1	297
19	Concreting of stay	No.	417	4	1668
20	Clamp with bolt & nut	No.	257	16	4112
	Sub Total				156886
21	Labour & overhead charges	L.S.		L.S.	47066
	Sub Total Service line Installation				203952
B Metering system					
22	3 Phase-4 W, 11 KV Smart Meter (AMI Compatible)	No.	14850	1	14850
23	11 KV Pilfer proof metering cubicle	No.	50948	1	50948
	Sub Total				65798
24	Labour & overhead charges	L.S.		L.S.	19739
	Sub Total Metering System				85537
	Total Service line + metering				289489

Amount chargeable to consumer :

(A) Line installed by licensee : Rs.	289489	Say Rs.	289490
(B) Line installed by consumer : Rs.	203952	×0.15 +	85537
	=	116130	Say Rs. 116130

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ANNEXURE-9A

Metering Charge

Load above 1 MVA upto 4 MVA

Underground Services

Sl. No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A Service Line Installation					
1	Cable 11 KV (E) XLPE 185 mm ² 3 - Core Aluminium conductor (EC Grade)	Meter	1271	100	127100
2	Straight through joint for 11 KV (E) 185 mm ² 3 – Core A2XCEFY Compact Aluminium	No.	9454	2	18908
3	Indoor type cable termination for 11 KV (E) 185 mm ² 3-Core A2XCEFY Compact	No.	4439	2	8878
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter Long	Roll	2677	2	5354
5	160 mm OD PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 in 6 meter	No.	4026	1	4026
6	Rigid PVC pipes: Size 160 mm OD x thickness 6.1 mm x 2.5 metre Long	No.	688	6	4128
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	1166	2	2332
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	569	20	11380
9	EPOXY Compound General Purpose	KG	274	0.4	110
10	Hot Dip Galvanized cable support clamps for 120 mm ² to 150 mm ² 3-Core Cable	No.	723	4	2892
11	6" Dia RCC half round Muffs for HT Cables	No.	62	150	9300
12	Sundry Items	L.S.	3000	1	3000
	Sub Total				197408
13	Labour and overhead @ 30% material cost	L.S.			59222
	Sub Total Service Line Installation				256630
B Metering System					
14	3 Phase-4 W, 11 KV Smart Meter (AMI Compatible)	No.	14850	1	14850
15	11 KV Pilfer proof metering cubicle	No.	50948	1	50948
	Sub Total				65798
16	Labour & overhead charges	L.S.			19739
	Sub Total metering system				85537
	Total Service line metering				342167
Amount chargeable to consumer					
(A) Line installed by licensee Rs. 342167 Say Rs. 342170					
(B) Line installed by consumer Rs. 256630 x 0.15 + 85537 = Rs. 124032 say Rs.124030					

Note: Ring main unit shall be installed wherever Ring Main System exists, and its cost shall be borne by the applicant/consumer.

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ANNEXURE-10

Metering Charge

Load above 4 MVA upto 10 MVA

Overhead Services

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A Service Line Installation					
1	3x300 mm ² 33KV XLPE Cable	Mtr.	2530	50	126500
2	I/D & O/D Cable Jointing Kit suitable for 33 KV 3x300 mm ² XLPE Cable	No.	36474	2	72948
3	GI Pipe 6" dia	Mtr.	1773	8	14184
4	Earthing Complete	No.	664	4	2656
5	33 kV Stay Set	No.	711	4	2844
6	ACSR Dog Conductor	Mtr.	126	60	7560
7	33 KV Polymeric Pin Insulator	No.	405	6	2430
8	33 KV Pin with nut	No.	274	6	1644
9	Polymeric Disc Insulator 70 KN	No.	231	12	2772
10	33 KV Disc fitting	No.	354	3	1062
11	Top Channel M.S. 125x65x3200 mm	No.	1751	1	1751
12	Dropper Channel M.S. 100x50x2600 mm	No.	1055	1	1055
13	S.T. Pole 11 Mtr	No.	17492	2	34984
14	Concreting of support	No.	942	2	1884
15	Number Plate with clamp	No.	281	1	281
16	Danger board with clamp	No.	286	1	286
17	Barbed Wire G.I.	Kg.	117	4	468
18	Aluminium Paint	Ltr.	297	1	297
19	Concreting of stay	No.	417	4	1668
20	Clamp with bolt & nut	No.	257	16	4112
Sub Total					281386
21	Labour & overhead charges	L.S.		L.S.	84416
Sub Total Service line Installation					365802
B Metering system					
22	3 Phase-4 W, 33 KV Smart Meter (AMI Compatible)	No.	14850	1	14850
23	33 KV Pilfer proof metering cubicle	No.	162627	1	162627
Sub Total					177477
24	Labour & overhead charges	L.S.		L.S.	53243
Sub Total Metering System					230720
Total Service line + metering					596522

Amount chargeable to consumer :

(A) Line installed by licensee : Rs.	596522	Say Rs.	596520
(B) Line installed by consumer : Rs.	365802	×0.08 +	230720
	= 259984	Say Rs.	259980

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ANNEXURE-10A

Metering Charge

Load above 4 MVA upto 10 MVA

Underground Services

Sl. No .	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A Service Line Installation					
1	Cable 33 KV (E) XLPE 300 mm ² 3 - Core Aluminium conductor (EC Grade)	Meter	2530	100	253000
2	Outdoor type cable termination for 33 KV (E) 300 mm ² 3-Core A2XCEFY Compact	No.	19816	2	39632
3	Indoor type cable termination for 33 KV (E) 300 mm ² 3-Core A2XCEFY Compact	No.	16658	4	66632
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter Long	Roll	2677	4	10708
5	160 mm OD PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 of 6 metre	No.	4026	1	4026
6	Rigid PVC pipes: Size 160 mm OD x thickness 6.1 mm x 2.5 metre Long	No.	688	6	4128
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	1166	4	4664
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	569	20	11380
9	EPOXY Compound General Purpose	KG	274	0.4	109.6
10	Hot Dip Galvanized cable support clamps for 120 mm ² to 300 mm ² 3-Core Cable	No.	723	2	1446
11	6" Dia RCC half round Muffs for HT Cables	No.	62	150	9300
12	Sundry Items	L.S.	8800	1	8800
13	Trenchless road crossing	Metre.	11000	1	11000
	Sub Total				424826
14	Labour and overhead	L.S.			127448
	Sub Total Service Line Installation				552273
B Metering System					
15	3 Phase-4 W, 33 KV Smart Meter (AMI Compatible)	No.	14850	1	14850
16	33 KV Pilfer proof metering cubicle	No.	162627	1	162627
	Sub Total				177477
17	Labour & overhead charges	L.S.			53243
	Sub Total metering system				230720
	Total Service line metering				782993
Amount chargeable to consumer					
(A) Line installed by licensee Rs. 782993 say Rs. 782990					782990
(B) Line installed by consumer Rs. 552273 x 0.08 + 230720 = Rs.274902 say Rs.274900					274900

Note: Ring main unit shall be installed wherever Ring Main System exists, and its cost shall be borne by the applicant/consumer.

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Metering Charge**Load above 10 MVA upto 20 MVA****Overhead Services**

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A Service Line Installation					
1	3x400 mm ² 33KV XLPE Cable	Mtr.	2878	50	143900
2	I/D & O/D Cable Jointing Kit suitable for 33 KV 3x400 mm ² XLPE Cable	No.	16101	2	32202
3	GI Pipe 6" dia	Mtr.	1773	8	14184
4	Earthing Complete	No.	664	4	2656
5	33 kV Stay Set	No.	711	4	2844
6	ACSR Panther Conductor	Mtr.	222	60	13320
7	33 KV Polymeric Pin Insulator	No.	405	6	2430
8	33 KV Pin with nut	No.	274	6	1644
9	Polymeric Disc Insulator 70 KN	No.	231	12	2772
10	33 KV Disc fitting	No.	354	3	1062
11	Top Channel M.S. 125x65x3200 mm	No.	1751	1	1751
12	Dropper Channel M.S. 100x50x2600 mm	No.	1055	1	1055
13	S.T. Pole 13 Mtr	No.	25062	2	50124
14	Concreting of support	No.	942	2	1884
15	Number Plate with clamp	No.	281	1	281
16	Danger board with clamp	No.	286	1	286
17	Barbed Wire G.I.	Kg.	117	4	468
18	Aluminium Paint	Ltr.	297	1	297
19	Concreting of stay	No.	417	4	1668
20	Clamp with bolt & nut	No.	257	16	4112
Sub Total					278940
21	Labour & overhead charges	L.S.		L.S.	83682
Sub Total Service line Installation					362622
B Metering system					
22	3 Phase-4 W, 33 kV Smart Meter (AMI Compatible)	No.	14850	1	14850
23	33 KV Pilfer proof metering cubicle	No.	162627	1	162627
Sub Total					177477
24	Labour & overhead charges	L.S.		L.S.	53243
Sub Total Metering System					230720
Total Service line + metering					593342

Amount chargeable to consumer:

(A) Line installed by licensee : Rs.	593342	Say Rs.	593340
(B) Line installed by consumer : Rs.	362622	×0.05 +	230720
	= 248851	Say Rs.	248850

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ANNEXURE-11A

Metering Charge

Load above 10 MVA upto 20 MVA

Underground Services

Sl. No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
A	Service Line Installation				
1	Cable 33 KV (E) XLPE 400 mm ² 3 - Core Aluminium conductor (EC Grade)	Meter	2878	100	287800
2	Outdoor type cable termination for 33 kV (E) 400 mm ² 3-Core A2XCEFY Compact	No.	8452	2	16904
3	Indoor type cable termination for 33 kV (E) 400 mm ² 3-Core A2XCEFY Compact	No.	7649	4	30596
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter Long	Roll	2677	4	10708
5	160 mm OD PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 of 6 metre	No.	4026	1	4026
6	Rigid PVC pipes: Size 160 mm OD x thickness 6.1 mm x 2.5 metre Long	No.	688	6	4128
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	1166	4	4664
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	569	20	11380
9	EPOXY Compound General Purpose	KG	274	0.4	110
10	Hot Dip Galvanized cable support clamps for 120 mm ² to 400 mm ² 3-Core Cable	No.	723	2	1446
11	6" Dia RCC half round Muffs for HT Cables	No.	62	150	9300
12	Sundry Items	L.S.	8800	1	8800
13	Trenchless road crossing	Meter	11000	1	11000
	Sub Total				400862
14	Labour and overhead	L.S.			120258
	Sub Total Service Line Installation				521120
B	Metering System				
15	3 Phase-4 W, 33 KV Smart Meter (AMI Compatible)	No.	14850	1	14850
16	33 KV Pilfer proof metering cubicle	No.	162627	1	162627
	Sub Total				177477
17	Labour & overhead charges	L.S.			53243
	Sub Total metering system				230720
	Total Service line metering				751840
Amount chargeable to consumer					751840
(A) Line installed by licensee Rs. 751840					751840
(B) Line installed by consumer Rs. 521120 x 0.05 + 230720 = Rs.256776 say Rs.256780					256780

Note: Ring main unit shall be installed wherever Ring Main System exists, and its cost shall be borne by the applicant/consumer.

b4

a

ANNEXURE-12

Cost Analysis of One Kilometer of L.T. Single & 3-phase Line on ST Pole

S.No.	Particulars	Unit	Rate (Rs.)	L.T. 3-Phase		L.T. 1- Phase	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	ST Pole 11 Mtr.	No.	17492	25	437300	25	437300
2	Clamp with bolt & Nut	No.	257	75	19275	50	12850
3	Earth wire clamp with bolt & Nut	No.	257	25	6425	25	6425
4	L.T. Shackle insulator	No.	53	75	3975	50	2650
5	Bolt & Nut for Shackle insulator	Kg.	148	30	4440	20	2960
6	Loop guard complete 3-Phase	No.	183	50	9150		
7	Loop guard complete 1-Phase	No.	47			50	2350
8	Phase wire ACSR Dog	Km.	126048	3.09	389488	1.03	129829
9	Neutral cum earth wire	Kg.	95	157	14915	157	14915
10	Aluminium binding wire	Kg.	342	8	2736	4	1368
11	Jointing sleave for ACSR Dog	No.	232	3	696	1	232
12	Spacer L.T. P.V.C.	No.	145	75	10875	50	7250
13	Extra for stays at angle Location	No.	2157	8	17256	8	17256
14	Concreting of support	No.	942	25	23550	25	23550
15	Earthing complete	No.	664	8	5312	8	5312
16	Concreting of Stay	No.	417	8	3336	8	3336
Sub Total					948729		667583
17	Labour & overhead charges			L.S.	284619	L.S.	200275
Total					1233348		867858
Cost of 3-Phase L.T. Line per meter				=	1233348	$\times 0.001 =$	1233
Cost of 1-Phase L.T. Line per meter				=	867858	$\times 0.001 =$	868
						Say Rs.	1230
						Say Rs.	870

b

m

ANNEXURE-13

Cost Analysis of One Kilometer of L.T. Single & 3-phase Line on P.C.C. Pole

S.No.	Particulars	Unit	Rate (Rs.)	L.T. 3-Phase		L.T. 1- Phase	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	P.C.C. Pole 8.5 Mtr.	No.	3012	25	75300	25	75300
2	Stone Pad 300x300x75 mm	No.	135	25	3375	25	3375
3	Clamp with bolt & Nut	No.	257	75	19275	50	12850
4	Earth wire clamp with bolt & Nut	No.	257	25	6425	25	6425
5	L.T. Shackle insulator	No.	53	75	3975	50	2650
6	Bolt & Nut for Shackle insulator	Kg.	148	30	4440	20	2960
7	Loop guard complete 3-Phase	No.	183	50	9150		
8	Loop guard complete 1-Phase	No.	47			50	2350
9	Phase wire ACSR Dog	Km.	126048	3.09	389488	1.03	129829
10	Neutral cum earth wire	Kg.	95	157	14915	157	14915
11	Aluminium binding wire	Kg.	342	8	2736	4	1368
12	Jointing sleeve for ACSR Dog	No.	232	3	696	1	232
13	Spacer L.T. P.V.C.	No.	145	75	10875	50	7250
14	Extra for stay at angle Location	No.	2157	8	17256	8	17256
15	Concreting of support	No.	942	25	23550	25	23550
16	Earthing complete	No.	664	8	5312	8	5312
17	Concreting of Stay	No.	417	8	3336	8	3336
	Sub Total				590104		308958
18	Labour & overhead charges			L.S.	177031	L.S.	92687
	Total				767135		401645

Cost of 3-Phase L.T. Line per meter = 767135 $\times 0.001 =$ 767 Say Rs. 770

Cost of 1-Phase L.T. Line per meter = 401645 $\times 0.001 =$ 402 Say Rs. 400

b4

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ANNEXURE-13A

Cost Analysis of One Kilometer of L.T. AB Cable Line On ST/P.C.C. Pole

S.No.	Particulars	Unit	Rate (Rs.)	LT ABC (1x25+1x16) sq.mm		LT ABC (3x50+1x35+1x16) sq.mm		LT ABC (3x95+1x70+1x16) sq.mm		LT ABC (3x120+1x95+1x16) sq.mm	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12
1	P.C.C. Pole 8.5 Mtr.	No.	3012	34	102408	34	102408				
2	ST Pole 9.0 Mtr.	No.	12984					34	441456		
3	ST Pole 11.0 Mtr.	No.	17492							34	594728
4	Stone Pad 300x300x75 mm	No.	135	34	4590	34	4590				
5	LT ABC (1x25+1x16) sq.mm	Km.	56903	1.1	62593						
6	LT ABC (3x50+1x35+1x16) sq.mm	Km.	222041			1.1	244245				
7	LT ABC (3x95+1x70+1x16) sq.mm	Km.	395378					1.1	434916		
8	LT ABC (3x120+1x95+1x16) sq.mm	Km.	492056							1.1	541262
9	Suspension Clamp	No.	241	34	8194	34	8194	34	8194	34	8194
10	Single Phase Distribution Box	No.	221	17	3757						
11	Single Phase Distribution Box Clamp (LS)	No.	388	34	13192						
12	Three Phase Distribution Box	No.	1401			17	23817	17	23817	17	23817
13	Three Phase Distribution Box Clamp (LS)	No.	188			34	6392	34	6392	34	6392
14	PG Clamps	No.	157	17	2669	17	2669	17	2669	17	2669
15	Dead End Clamp	No.	227	8	1816	8	1816	8	1816	8	1816
16	Eye-Hook	No.	201	8	1608	8	1608	8	1608	8	1608
17	J Hook	No.	37	34	1258	34	1258	34	1258	34	1258
18	Neutral cum earth wire	Kg.	95	157	14915	157	14915	157	14915	157	14915
19	Extra for stay at angle Location	No.	2157	8	17256	8	17256	8	17256	8	17256
20	Concreting of support	No.	942	34	32028	34	32028	34	32028	34	32028
21	Earthing complete	No.	664	34	22576	34	22576	34	22576	34	22576
22	Concreting of Stay	No.	417	8	3336	8	3336	8	3336	8	3336
	Sub Total				292196		487108		1012236.8		1271854.6
23	Labour & overhead charges			L.S.	87659	L.S.	146132	L.S.	303671	L.S.	381556
	Total				379855		633241		1315908		1653411

Cost of L.T. AB Cable (1x25+1x16)

sq.mm Line per meter = $379855 \times 0.001 = 379.86$ Say Rs. 380

Cost of L.T. AB Cable (3x50+1x35+1x16)

sq.mm Line per meter = $633241 \times 0.001 = 633.24$ Say Rs. 630

Cost of L.T. AB Cable (3x95+1x70+1x16)

sq.mm Line per meter = $1315908 \times 0.001 = 1315.91$ Say Rs. 1320

Cost of L.T. AB Cable (3x120+1x95+1x16)

sq.mm Line per meter = $1653411 \times 0.001 = 1653.41$ Say Rs. 1650

b4

h

ANNEXURE-14

Cost Analysis of One Kilometer of L.T. Single & 3-phase Line on P.C.C. Pole in Rural Area for PTW and Pumping Set

S. No.	Particulars	Unit	Rate (Rs.)	L.T. 3-Phase		L.T. 1- Phase	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	P.C.C. Pole 8.5 M	No.	3012	20	60240	20	60240
2	Stone Pad 300x300x75 mm	No.	135	20	2700	20	2700
3	Clamp with bolt & Nut	No.	257	60	15420	60	15420
4	Earth wire clamp with bolt & Nut	No.	257	20	5140	20	5140
5	L.T. Shackle insulator	No.	53	60	3180	20	1060
6	Bolt & Nut for Shackle insulator	Kg.	148	18	2664	6	888
7	Loop guard complete 3-Phase	No.	183	40	7320		
8	Loop guard complete 1-Phase	No.	47			40	1880
9	Phase wire ACSR Weasel	Km.	37987	3.09	117380	1.03	39127
10	Neutral cum earth wire	Kg.	95	157	14915	157	14915
11	Aluminium binding wire	Kg.	342	3	1026	1	342
12	Jointing sleeve for Weasel	No.	397	3	1191	1	397
13	Spacer L.T. P.V.C.	No.	145	60	8700	60	8700
14	Extra for stay at angle Location	No.	2157	3	6471	3	6471
15	Concreting of support	No.	942	3	2826	3	2826
16	Earthing complete	No.	664	3	1992	3	1992
17	Concreting of stay	No.	417	3	1251	3	1251
	Sub Total				252416		163349
18	Labour & overhead charges			L.S.	75725	L.S.	49005
	Total				328141		212354

Variable Charge	(3-Phase LT Line)	(1-Phase LT Line)
Cost of 1 Km L.T. Line on PCC Pole	328141	212354
Cost of concreting of support	(-)	2826
Cost of concreting of Stay	(-)	1251
Labour & overhead Charges	(-)	49005
-----	-----	-----
Cost of 1 Km L.T. Line excluding cost of Concreting and labour charges	248339	159272
Cost of LT line per meter	248.34	159.27
Say	250	160

ANNEXURE-15

Cost of material for Double Pole Structure with PCC/ST Pole for 11 KV Line

S.No.	Particulars	Unit	Rate (Rs.)	PCC POLE		ST POLE	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	ST Pole 11 Mtr.	No.	17492			2	34984
2	P.C.C. Pole 8.5 Mtr.	No.	3012	2	6024		
3	Stone Pad 300×300×75 mm	No.	135	2	270		
4	Top Channel M.S.100x50x2240	No.	909	1	909	1	909
5	Cross bracing M.S. Angle	Set	3475	1	3475	1	3475
6	Clamps with Bolt & Nut	No.	257	12	3084	12	3084
7	Barbed Wire G.I.	Kg.	117	4	468	4	468
8	Danger board with clamp	No.	286	1	286	1	286
9	Concreting of PCC Pole	No.	942	2	1884		
10	Concreting of ST Pole	No.	942			2	1884
11	Earthing complete	No.	664	2	1328	2	1328
12	F Bracket	No.	374	3	1122	3	1122
13	11 KV Polymeric Disc Insulators B&S type	No.	122	6	732	6	732
14	11 KV Disc fittings	No.	125	6	750	6	750
15	11 KV Polymeric Pin Insulator	No.	147	3	441	3	441
16	11 KV Pin with nut	No.	62	3	186	3	186
17	P.G. clamp	No.	157	6	942	6	942
18	11 kV Stay Set	No.	506	6	3036	6	3036
19	Concreting of stay	No.	417	6	2502	6	2502
20	Number Plate with clamp	No.	281	1	281	1	281
Total					27720		56410




ANNEXURE-16

Cost Analysis of One Kilometer of 11 KV Line on PCC Pole/S.T.Pole

S.No.	Particulars	Unit	Rate (Rs.)	PCC POLE		ST POLE	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	ST Pole 11 Mtr.	No.	17492			17	297364
2	P.C.C. Pole 8.5 Meter	No.	3012	17	51204		
3	Stone Pad 300x300x75 mm	No.	135	17	2295		
4	X-arm M.S. Angle 65x65x6 mm V Type	No.	775	17	13175	17	13175
5	Cross arms holding clamp	No.	307	17	5219	17	5219
6	11 KV Polymeric Pin Insulator	No.	147	51	7497	51	7497
7	11 KV Pin with nut	No.	62	51	3162	51	3162
8	F Bracket	No.	374	17	6358	17	6358
9	ACSR Rabbit Conductor	Km.	60488			3.09	186908
10	ACSR Weasel Conductor	Km.	37987	3.09	117380		
11	Aluminium Paint	Ltr.	297	1	297	1	297
12	Aluminium binding wire	Kg.	342	2	684	2	684
13	Jointing sleeve for ACSR Rabbit	No.	414			3	1242
14	Jointing sleeve for ACSR Weasel	No.	397	3	1191		
15	Danger board with clamp	No.	286	17	4862	17	4862
16	Concreting of Stay	No.	417	2	834	2	834
17	Barbed wire	Kg.	117	34	3978	34	3978
18	Extra for stays at angle Location	No.	2157	2	4314	2	4314
19	Extra with stays at Road crossing	No.	2157	1	2157	1	2157
20	Sectional D/P on STP (Annexure 16)	No.	56410			1	56410
21	Sectional D/P on PCC (Annexure 16)	No.	27720	1	27720		
22	Concreting of PCC Pole	No.	942	17	16014		
23	Concreting of ST Pole	No.	942			17	16014
24	Earthing Complete	No.	664	17	11288	17	11288
25	Number Plate	No.	281	17	4777	17	4777
Sub Total					284406		626540
26	Labour & overhead charges			L.S.	85322		187962
	Total				369728		814502

Cost of 11 KV Line per meter on P.C.C. Pole = 369728 $\times 0.001 =$ 369.73 Say 370
 Cost of 11 KV Line per meter on S.T. Pole = 814502 $\times 0.001 =$ 814.50 Say 810




**Cost Analysis of One Kilometer 11 KV Underground Line/Cable
(Conventional Method - Straight Through)**

S.No.	Particulars	Unit	Rate (Rs.)	11 KV 3×70 mm ²		11 KV 3×120 mm ²		11 KV 3×185 mm ²		11 KV 3×300 mm ²	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12
1	11 KV XLPE cable 3×70 mm ²	Km.	688191	1.10	757010						
2	11 KV XLPE cable 3×120 mm ²	Km.	946057			1.10	1040663				
3	11 KV XLPE cable 3×185 mm ²	Km.	1270565					1.10	1397622		
4	11 KV XLPE cable 3×300 mm ²	Km.	1806000							1.10	1986600
5	Cable jointing kit straight through 11 KV 70 mm ²	No.	8751	2	17502						
6	Cable jointing kit straight through 11 KV 120 mm ²	No.	8897			2	17794				
7	Cable jointing kit straight through 11 KV 185mm ²	No.	9454					2	18908		
8	Cable jointing kit straight through 11 KV 300mm ²	No.	10112							2	20224
9	Cable jointing kit outdoor 11 KV 70 mm ²	No.	4326	2	8652						
10	Cable jointing kit outdoor 11 KV 120 mm ²	No.	4749			2	9498				
11	Cable jointing kit outdoor 11 KV 185 mm ²	No.	5169					2	10338		
12	Cable jointing kit outdoor 11 KV 300 mm ²	No.	5734							2	11468
13	G.I. Pipe 6" dia	Mtr.	1773	20	35460	20	35460	20	35460	20	35460
	Sub Total				818624		1103415		1462328		2053752
14	Cable laying charges along with cost of bricks & sand (LS)	Mtr.	550	1000	550000	1000	550000	1000	550000	1000	550000
	Total				1368624		1653415		2012328		2603752
15	Road restoration charges for pucca road crossing/footpath (LS)	Mtr.	1000	1000	1000000	1000	1000000	1000	1000000	1000	1000000
	Grand Total				2368624		2653415		3012328		3603752

**Cost of underground 11 KV Line per meter
with 3×70 mm² cable** 2368624 × 0.001= 2368.624 Say Rs. 2370

**Cost of underground 11 KV Line per meter
with 3×120 mm² cable** 2653415 × 0.001= 2653.415 Say Rs. 2650

**Cost of underground 11 KV Line per meter
with 3×185 mm² cable** 3012328 × 0.001= 3012.328 Say Rs. 3010

**Cost of underground 11 KV Line per meter
with 3×300 mm² cable** 3603752 × 0.001= 3603.752 Say Rs. 3600

549

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ANNEXURE-17A

Cost Analysis of One Kilometer 11 KV Underground Line/Cable (HDD Method)

S.No.	Particulars	Unit	Rate (Rs.)	11 KV 3x70 mm ²		11 KV 3x120 mm ²		11 KV 3x185 mm ²		11 KV 3x300 mm ²	
				Qty.	Amt.(Rs.)	Qty.	Amt.(Rs.)	Qty.	Amt.(Rs.)	Qty.	Amt.(Rs.)
1	2	3	4	5	6	7	8	9	10	11	12
1	11 KV XLPE cable 3x70 mm ²	Km.	688191	1.10	757010						
2	11 KV XLPE cable 3x120 mm ²	Km.	946057			1.10	1040663				
3	11 KV XLPE cable 3x185 mm ²	Km.	1270565					1.10	1397622		
3	11 KV XLPE cable 3x300 mm ²	Km.	1806000							1.10	1986600
4	ST Pole 11 Mtr.	No.	17492	7	122444	7	122444	7	122444	7	122444
5	X-arm M.S. Angle 65x65x6 mm V Type	No.	775	2	1550	2	1550	2	1550	2	1550
6	Cross arms holding clamp	No.	307	2	614	2	614	2	614	2	614
7	Cable jointing kit indoor 11 KV 70 mm ²	No.	4007	1	4007						
8	Cable jointing kit indoor 11 KV 120 mm ²	No.	4162			1	4162				
9	Cable jointing kit indoor 11 KV 185 mm ²	No.	4439					1	4439		
9	Cable jointing kit indoor 11 KV 300 mm ²	No.	5238							1	5238
10	Cable jointing kit outdoor 11 KV 70 mm ²	No.	4326	5	21630						
11	Cable jointing kit outdoor 11 KV 120 mm ²	No.	4749			5	23745				
12	Cable jointing kit outdoor 11 KV 185 mm ²	No.	5169					5	25845		
12	Cable jointing kit outdoor 11 KV 300 mm ²	No.	5734							5	28670
13	11 KV Polymeric Pin Insulator	No.	147	9	1323	9	1323	9	1323	9	1323
14	11 KV Pin with Nut	No.	62	9	558	9	558	9	558	9	558
15	G.I. Pipe 6" dia	Mtr.	1773	100	177300	100	177300	100	177300	100	177300
16	HDPE Pipe 120 mm	Mtr.	473	900	425700	900	425700	900	425700	900	425700
17	Aluminium binding wire	Kg.	342	2	684	2	684	2	684	2	684
18	Danger board with clamp and bolt & nut	No.	286	7	2002	7	2002	7	2002	7	2002
19	Number plate with clamp and bolt & nut	No.	281	7	1967	7	1967	7	1967	7	1967
20	Bolt, Nut & washer all sizes (LS)	Kg.	220	1	220	1	220	1	220	1	220
21	Aluminium paint	Ltr.	297	7	2079	7	2079	7	2079	7	2079
22	Red Oxide paint	Ltr.	220	7	1540	7	1540	7	1540	7	1540
23	Stay Set Complete	No.	506	4	2024	4	2024	4	2024	4	2024
24	Concreting of Pole	No.	942	7	6594	7	6594	7	6594	7	6594
25	Earthing Complete	No.	664	2	1328	2	1328	2	1328	2	1328
26	Cable laying by digging/drilling (LS)	Mtr.	800	1000	800000	1000	800000	1000	800000	1000	800000
	Total				2330574		2616497		2975833		3568435

Cost of underground 11 KV Line per meter with 3x70 mm² cable $2330574 \times 0.001 = 2330.57$ Say Rs. 2330

Cost of underground 11 KV Line per meter with 3x120 mm² cable $2616497 \times 0.001 = 2616.50$ Say Rs. 2620

Cost of underground 11 KV Line per meter with 3x185 mm² cable $2975833 \times 0.001 = 2975.83$ Say Rs. 2980

Cost of underground 11 KV Line per meter with 3x300 mm² cable $3568435 \times 0.001 = 3568.44$ Say Rs. 3570

By -

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ANNEXURE-18

Cost of material for single support on PCC Pole 9 Mtr. for 33 KV Line

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	PCC Pole 9.0 Mtr.	No.	5207	1	5207
2	33 KV V-type cross arm	No.	1337	1	1337
3	Cross arm holding clamp with bolts & nuts	No.	307	1	307
4	F-bracket	No.	479	1	479
5	33 KV Polymeric Pin Insulator	No.	405	3	1215
6	33 KV Pin with nut	No.	274	3	822
7	Armour Rod with Ferrule for Dog	Set	453	3	1359
8	Stone Pad 300x300x75 mm	No.	135	1	135
9	Number plate with clamp and bolt & nut	No.	281	1	281
10	Danger board with clamp and bolt & nut	No.	286	1	286
11	Barbed Wire G.I.	Kg.	117	2	234
12	Bolt, Nut & washer all sizes (LS)	Kg.	220	1	220
13	Aluminium binding wire	Kg.	342	0.5	171
14	Earthing complete	No.	664	1	664
15	Concreting support	No.	942	1	942
	Total				13659
				Say	13660

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ANNEXURE-19

Cost of material for Sectional Double Pole Structure on PCC Pole 9 Mtr. for 33 KV Line

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	PCC Pole 9 Mtr.	No.	5207	2	10414
2	M.S. Angle Iron 65x65x6 mm bracing with 4 clamp	Set	3475	1	3475
3	Top Channel 125x65 mmx3200 mm with clamp	No.	1751	1	1751
4	Stone Pad 300x300x75 mm	No.	135	2	270
5	Polymeric Disc Insulators B&S type	No.	231	6	1386
6	Disc Fittings Dog/Racoon	No.	354	6	2124
7	33 KV Polymeric Pin Insulator	No.	405	3	1215
8	33 KV Pin with nut	No.	274	3	822
9	Earth wire clamp with bolt & nut	No.	257	1	257
10	PG Clamp for Dog	No.	157	12	1884
11	F Bracket	No.	479	3	1437
12	Number plate with clamp and bolt & nut	No.	281	1	281
13	Danger board with clamp and bolt & nut	No.	286	1	286
14	Barbed wire G.I.	Kg.	117	4	468
15	Aluminium Paint	Ltr.	297	1	297
16	Bolt, Nut and washer all sizes (LS)	Kg.	220	3	660
17	33 KV Stay Set	No.	711	8	5688
18	Concreting of support	No.	942	2	1884
19	Earthing complete	No.	664	2	1328
20	Concreting of stay	No.	417	8	3336
Total					39263
Say					39260




Cost of material for Single Line support on ST Pole 11 Mtr. for 33 KV Line

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	ST Pole 11 Mtr.	No.	17492	1	17492
2	V-type Cross Arm	No.	1337	1	1337
3	Packing piece and clamp for above with bolts & nuts	No.	257	1	257
4	F Bracket	No.	479	1	479
5	33 KV Polymeric Pin Insulator	No.	405	3	1215
6	33 KV Pin with nut	No.	274	3	822
7	Earth wire clamp with bolt & nut	No.	257	1	257
8	Amour rod with ferules for Dog	Set	453	3	1359
9	Number plate with clamp and bolt & nut	No.	281	1	281
10	Danger board with clamp and bolt & nut	No.	286	1	286
11	Barbed wire G.I.	Kg.	117	2	234
12	Bolt, Nut and washer all sizes (LS)	Kg.	220	1	220
13	Aluminium paint	Ltr.	297	1	297
14	Red Oxide paint	Ltr.	220	1	220
15	Aluminium binding wire	Kg.	342	0.5	171
16	Concreting of support	No.	942	1	942
17	Earthing complete	No.	664	1	664
	Total				26533
				Say	26530




Cost of material for Section Double Pole Structure on ST Pole 11 Mtr. for 33 KV Line

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	ST Pole 11 Mtr.	No.	17492	2	34984
2	M.S. Angle Iron 65x65x6 mm bracing with 4 clamp	Set	3475	1	3475
3	Top Channel 125x65 mm, 3200 mm with clamp	No.	1751	1	1751
4	Polymeric Disc Insulators B&S type	No.	231	6	1386
5	Disc Fittings Dog/Racoon	No.	354	6	2124
6	33 KV Polymeric Pin Insulator	No.	405	3	1215
7	33 KV Pin with nut	No.	274	3	822
8	Earth wire clamp with bolt & nut	No.	257	1	257
9	PG Clamp for Dog	No.	157	12	1884
10	F Bracket	No.	479	3	1437
11	Number plate with clamp and bolt & nut	No.	281	1	281
12	Danger board with clamp and bolt & nut	No.	286	1	286
13	Barbed wire GI	Kg.	117	4	468
14	Aluminium Paint	Ltr.	297	2	594
15	Bolt, Nut and washer all sizes (LS)	Kg.	220	3	660
16	Red Oxide Paint	Ltr.	220	2	440
17	33 KV Stay Set	No.	711	8	5688
18	Concreting of support	No.	942	2	1884
19	Earthing complete	No.	664	2	1328
20	Concreting of stay	No.	417	8	3336
21	Aluminium Binding Wire	Kg.	342	1	342
	Total Cost				64642
				Say	64640

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ANNEXURE-22

Cost Analysis of One Kilometer of 33 kV Line with ACSR Dog Conductor on ST Pole and PCC Pole

S.No.	Particulars	Unit	Rate (Rs.)	On STP 11 Mtr.		PCC Pole 9 Mtr.	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	Cost of single support as per Annexure 18 & 20						
	ST Pole 11 Mtr. as per Annex-20	No.	26533	14	371462		
	PCC Pole 9 Mtr. as per Annex-18	No.	13659			16	218544
2	Extra Cost of section and heavy angle points on double pole						
	ST Pole 11 Mtr. (Annex. 21-20)	No.	38109	1	38109		
	PCC Pole 9 Mtr. (Annex. 19-18)	No.	25604			1	25604
3	Extra Cost of stay at right angle	No.	2157	4	8628	2	4314
4	ACSR Dog Conductor	Km.	126048	3.09	389488	3.09	389488
5	GS/GI Earth wire	Kg.	95	127	12065	127	12065
6	Aluminium jointing sleeves	No.	232	3	696	3	696
7	Earthing complete	No.	664	6	3984	6	3984
8	Extra Cost of Road/Communication lines/11 KV lines crossing	L.S.	10000	2	20000	2	20000
9	Tree cutting compensation	L.S.	1200	L.S.	1200	L.S.	1200
	Sub Total				845632		675895
10	Labour & overhead charges				L.S. 253690	L.S.	202769
	Total				1099322		878664

Cost of 33 kV Line per meter on PCC Pole = $878664 \times 0.001 = 878.66$ Say Rs. 880

Cost of 33 kV Line per Meter on ST Pole = $1099322 \times 0.001 = 1099.32$ Say Rs. 1100

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ANNEXURE-23

**Cost Analysis of One Kilometer 33 KV Underground Line/Cable
(Conventional Method - Straight Through)**

S. No.	Particulars	Unit	Rate (Rs.)	33 KV 3x120 mm ²		33 KV 3x300 mm ²		33 KV 3x400 mm ²	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8	9	10
1	33 KV XLPE cable 3x120 mm ²	Km.	1478027	1.1	1625830				
2	33 KV XLPE cable 3x300 mm ²	Km.	2529925			1.1	2782918		
3	33 KV XLPE cable 3x400 mm ²	Km.	2878000					1.1	3165800
4	Cable jointing kit straight through 33 KV 120 mm ²	No.	39781	2	79562				
5	Cable jointing kit straight through 33 KV 300 mm ²	No.	41275			2	82550		
6	Cable jointing kit straight through 33 KV 400 mm ²	No.	22647					2	45294
7	Cable jointing kit outdoor 33 KV 120 mm ²	No.	18697	2	37394				
8	Cable jointing kit outdoor 33 KV 300 mm ²	No.	19816			2	39632		
9	Cable jointing kit outdoor 33 KV 400 mm ²	No.	8452					2	16904
10	G.I. Pipe 6" dia	Mtr.	1773	20	35460	20	35460	20	35460
	Sub Total				1778246		2940560		3263458
11	Cable laying charges along with cost of bricks & sand(LS)	Mtr.	550	1000	550000	1000	550000	1000	550000
	Total				2328246		3490560		3813458
12	Road restoration charges for pucca road crossing/footpath (LS)	Mtr.	1000	1000	1000000	1000	1000000	1000	1000000
	Grand Total				3328246		4490560		4813458

Cost of underground 33 KV Line per meter

with 3x120 mm² cable 3328246 × 0.001= 3328.25 Say Rs. 3330

Cost of underground 33 KV Line per meter

with 3x300 mm² cable 4490560 × 0.001= 4490.56 Say Rs. 4490

Cost of underground 33 KV Line per meter

with 3x400 mm² cable 4813458 × 0.001= 4813.46 Say Rs. 4810

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ANNEXURE-23A

**Cost Analysis of One Kilometer 33 KV Underground Line/Cable
(HDD Method)**

S.No.	Particulars	Unit	Rate (Rs.)	33 KV 3x120 mm ²		33 KV 3x300 mm ²		33 KV 3x400 mm ²	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8	9	10
1	33 KV XLPE cable 3x120 mm ²	Km.	1478027	1.10	1625830				
2	33 KV XLPE cable 3x300 mm ²	Km.	2529925			1.10	2782918		
3	33 KV XLPE cable 3x400 mm ²	Km.	2878000					1.10	3165800
4	ST Pole 11 Mtr.	No.	17492	7	122444	7	122444	7	122444
5	X-arm M.S. Angle 65x65x6 mm V Type	No.	1337	2	2674	2	2674	2	2674
6	Cross arms holding clamp	No.	307	2	614	2	614	2	614
7	Cable jointing kit indoor 33 KV 120 mm ²	No.	15045	1	15045				
8	Cable jointing kit indoor 33 KV 300 mm ²	No.	16658			1	16658		
9	Cable jointing kit indoor 33 KV 400 mm ²	No.	7649					1	7649
10	Cable jointing kit outdoor 33 KV 120 mm ²	No.	18697	5	93485				
11	Cable jointing kit outdoor 33 KV 300 mm ²	No.	19816			5	99080		
12	Cable jointing kit outdoor 33 KV 400 mm ²	No.	8452					5	42260
13	33 KV Polymeric Pin Insulator	No.	405	9	3645	9	3645	9	3645
14	33 KV Pin with Nut	No.	274	9	2466	9	2466	9	2466
15	G.I. Pipe 6" dia	Mtr.	1773	100	177300	100	177300	100	177300
16	HDPE Pipe 140 mm	Mtr.	671	900	603900	900	603900	900	603900
17	Aluminum binding wire	Kg.	342	2	684	2	684	2	684
18	Danger board with clamp and bolt & nut	No.	286	7	2002	7	2002	7	2002
19	Number plate with clamp and bolt & nut	No.	281	7	1967	7	1967	7	1967
20	Bolt, Nut & washer all sizes (LS)	Kg.	220	1	220	1	220	1	220
21	Aluminium paint	Ltr.	297	7	2079	7	2079	7	2079
22	Red Oxide paint	Ltr.	220	7	1540	7	1540	7	1540
23	33 KV Stay set	No.	711	4	2844	4	2844	4	2844
24	Concreting of Pole	No.	942	7	6594	7	6594	7	6594
25	Earthing Complete	No.	664	2	1328	2	1328	2	1328
26	Cable laying by digging/drilling	Mtr.	800	1000	800000	1000	800000	1000	800000
Total					3466661		4630957		4948010

Cost of underground 33 KV Line per meter

with 3x120 mm² cable 3466661 × 0.001= 3466.66 Say Rs. 3470

Cost of underground 33 KV Line per meter

with 3x300 mm² cable 4630957 × 0.001= 4630.96 Say Rs. 4630

Cost of underground 33 KV Line per meter

with 3x400 mm² cable 4948010 × 0.001= 4948.01 Say Rs. 4950

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ANNEXURE-24

Cost analysis of 25 KVA S/S On P.C.C. Pole

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	P.C.C.Pole 8.5 Mtr.	No.	3012	2	6024
2	Stone Pad 300x300x75 mm	No.	135	2	270
3	Top channel	No.	909	1	909
4	Dropper channel	No.	812	1	812
5	M.S. Angle 75x75x6x2028 mm	No.	3475	2	6950
6	M.S. T- off Channel	No.	526	1	526
7	Clamps with bolt & nut	No.	257	11	2827
8	11 KV Polymeric Disc Insulator	No.	122	3	366
9	11 KV disc fitting	No.	125	3	375
10	11 KV Polymeric Pin Insulator	No.	147	3	441
11	11 KV Pin with nut	No.	62	3	186
12	Transformer 25 KVA	No.	86157	1	86157
13	Danger board with clamp	No.	286	1	286
14	11 kV Stay set	No.	506	2	1012
15	Earthing Complete	No.	664	2	1328
16	Concreting of Stay	No.	417	2	834
17	Concreting of Poles	No.	942	2	1884
	Total				111187
18	Labour & Overhead Charges			L.S.	33356
	Grand Total				144543

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ANNEXURE-24A

Cost analysis of three phase 16 KVA S/S On P.C.C. Pole

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	P.C.C. Pole 8.5 Mtr.	No.	3012	2	6024
2	Stone Pad 300x300x75 mm	No.	135	2	270
3	Top channel	No.	909	1	909
4	Dropper channel	No.	812	1	812
5	M.S. Angle 75x75x6x2028 mm	No.	3475	2	6950
6	M.S. T- off Channel	No.	526	1	526
7	Clamps with bolt & nut	No.	257	11	2827
8	11 KV Polymeric Disc Insulator	No.	122	3	366
9	11 KV disc fitting	No.	125	3	375
10	11 KV Polymeric Pin Insulator	No.	147	3	441
11	11 KV Pin with nut	No.	62	3	186
12	Three Phase Transformer 16 KVA	No.	77355	1	77355
13	Danger board with clamp	No.	286	1	286
14	11 kV Stay set	No.	506	2	1012
15	Earthing Complete	No.	664	2	1328
16	Concreting of Stay	No.	417	2	834
17	Concreting of Poles	No.	942	2	1884
	Total				102385
18	Labour & Overhead Charges			L.S.	30716
	Grand Total				133101

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ANNEXURE-24B

Cost analysis of single phase 10 KVA S/S On P.C.C. Pole

S.No.	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	P.C.C. Pole 8.5 Mtr.	No.	3012	1	3012
2	Stone Pad 300x300x75 mm	No.	135	1	135
3	M.S. T- off Channel	No.	526	1	526
4	Clamps with bolt & nut	No.	257	3	771
5	11 KV Polymeric Disc Insulator	No.	122	2	244
6	11 KV disc fitting	No.	125	2	250
7	11 KV Polymeric Pin Insulator	No.	147	2	294
8	11 KV Pin with nut	No.	62	2	124
9	Single Phase Transformer 10 KVA	No.	75426	1	75426
10	Danger board with clamp	No.	286	1	286
11	11 kV Stay set	No.	506	1	506
12	Earthing Complete	No.	664	1	664
13	Concreting of Stay	No.	417	1	417
14	Concreting of Poles	No.	942	1	942
	Total				83597
15	Labour & Overhead Charges			L.S.	25079
	Grand Total				108676

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ANNEXURE-25

Rate of 11 kV Ring Main Unit

S.No.	Particulars	Unit	Qty.	Rate (Rs.)
1	2	3	4	5
1	11 kV 3 Way RMU (Manual)	No	1	437301
2	11 kV 3 Way RMU (Motorized)	No	1	620705
3	11 kV 4 Way RMU (Manual)	No	1	678679
4	11 kV 4 Way RMU (Motorized)	No	1	888214

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ANNEXURE-26

**Cost of Transformers to be charged by the Licensee
(In Case T/F installed by the licensee at the consumer premises)**

S.No.	Capacity	Rate (Rs.)
1	2	3
1	10 KVA Single Phase Aluminium wound TFs	75426
2	16 KVA Three Phase Aluminium wound TFs	77355
3	25 KVA Aluminium wound TFs	86157
4	63 KVA Aluminium wound TFs	169677
5	100 KVA Aluminium wound TFs	224544
6	250 KVA Copper Wound TFs	651984
7	400 KVA Copper Wound TFs	1103417
8	630 KVA Copper Wound TFs	1441975

All transformers shall be of at least Level-1 rating.

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ANNEXURE-27

**Cost of Dry Type Transformers to be charged by the Licensee
(In Case T/F installed by the licensee at the consumer premises)**

S.No.	Capacity	Rate (Rs.)
1	2	3
1	250 KVA Copper Wound TFs	1316880
2	400 KVA Copper Wound TFs	1582970
3	630 KVA Copper Wound TFs	1873095

All transformers shall be of at least Level-1 rating.

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ANNEXURE-28**Cost analysis of Fencing / Plinth / Cable Trench**

S.No.	Particulars	Unit	Rates (Rs.)
1	2	3	4
1	M S Strip (50x6 mm) Fencing (6 feet height including civil work)	sq.m	2695
2	FRP Fencing (6 feet height including civil work)	sq.m	2640
3	Plinth of Transformer	cu.m	5060
4	Cable Trench	cu.m	1320
5	Interlocking tiles inside Transformer Fencing	sq.m	1320



Cost of Smart Meter (AMI Compatible)

S.No.	Particulars	Unit	Qty.	Rate (Rs.)
1	2	3	4	5
1	1 Ph-2 W Smart meter (AMI compatible) with meter box	No.	1	2800
2	3 Ph-4 W Smart meter (AMI compatible) with meter box	No.	1	4100
3	3 Phase-4 W LT-CT connected Smart meter (AMI compatible)	No.	1	8450
4	3 Phase-4 W, 11 kV Smart meter (AMI compatible)	No.	1	14850
5	3 Phase-4 W, 33 kV Smart meter (AMI compatible)	No.	1	14850

Cost of Net Meter

S.No.	Particulars	Unit	Qty.	Rate (Rs.)
1	2	3	4	5
1	1-Phase Net-meter with meter box	No.	1	2458
2	3-Phase Net-meter with meter box	No.	1	4083
3	LT TVM Net meter	No.	1	11853
4	11 KV Net meter	No.	1	11850
5	33 KV Net meter	No.	1	11850

Cost of Electronic Meter

S.No.	Particulars	Unit	Qty.	Rate (Rs.)
1	2	3	4	5
1	1 Phase-2 W Electronic meter with meter box	No.	1	767
2	3 Phase-4 W Electronic meter 10-60A with meter box	No.	1	1853
3	Electronic LT TVM	No.	1	3059
4	Electronic TVM 11 kV	No.	1	3768
5	Electronic TVM 33 kV	No.	1	4343

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ANNEXURE-30

Cost of 11 kV Independent Bay

S.No.	Particulars	Unit	Rate (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	ST Pole 11 Mtr.	No.	17,492	2	34,984
2	11 kV VCB O/G CTR 200/100/5 A (1250 Amp.)	No.	3,68,167	1	3,68,167
3	11 kV XLPE Cable 3x185 sq mm.	Mtr.	1,271	60	76,260
4	11 kV Cable Jointing Kit 3x185 sq mm. Indoor	No.	4,439	1	4,439
5	11 kV Cable Jointing Kit 3x185 sq mm. Outdoor	No.	5,169	1	5,169
6	Top Channel M.S.100x50x2240	No.	909	1	909
7	Cross bracing M.S. Angle	Set	3,475	1	3,475
8	Clamps with Bolt & Nut	No.	257	10	2,570
9	Barbed wire G.I.	Kg.	117	4	468
10	Danger board with clamp	No.	286	1	286
11	Concreting of ST Pole	No.	942	2	1,884
12	Earthing complete	No.	664	2	1,328
13	F Bracket	No.	374	3	1,122
14	11 KV Polymeric Pin Insulator	No.	147	3	441
15	11 KV Pin with nut	No.	62	3	186
16	P.G. clamp	No.	157	6	942
17	11 kV Stay Set	No.	506	6	3,036
18	Concreting of stay	No.	417	6	2,502
19	Number plate with clamp	No.	281	1	281
	Total				5,08,449
20	Labour & overhead charges				1,52,535
	Grand Total				6,60,984

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