

**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)

Effective from July 08, 2019



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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-ordinated and economical distribution system in his 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 total charges payable by an applicant shall comprise of Processing Fee, Security and Line Charge. All the three components shall be clearly and separately mentioned in the Estimate and Receipts issued by the Licensee to the applicants.
8. Details of Line Charges are enclosed at Annexure - 1 to 12 A.



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9. 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:

$$\text{Load in kVA} = \text{Load in BHP} / (0.746 \times 0.90)$$

$$\text{Load in kVA} = (\text{Load in kW}) / 0.90$$

10. In case of any inconsistency between Cost Data Book and Electricity Supply Code, the Cost Data Book shall prevail.
11. The connection charges for new connection up to 5 kW may be paid in 18 equal installments (rounded off to the nearest Rupees).
12. If the consumer opts for prepaid meter the meter charges may be paid in installments as provided in Annexure - 26.
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 Commission under Clause 9.5 of the Electricity Supply Code, 2005 'Power to Remove Difficulties' relaxes the charging of security deposit by Discoms for providing electricity connection to the rural & urban households covered under the 'Saubhagya' scheme vide order dated 24.01.2018 in Petition No. 1280 of 2018 till the Saubhagya scheme is notified by the Govt. of India.



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## CHAPTER 2

### PROCESSING FEE

S. No	Description	Processing Fee Per connection (Rs.)
1	Load up to 1 kW for BPL category Consumers only	10
2	Load up to 1 kW for other than BPL Consumers only	50
3	Load above 1 kW and less than 25 kW	100
4	Load 25 kW or more up to 50 kW / 56 kVA	1000
5	Load above 56 kVA up to 500 kVA	5000
6	Load above 500 kVA up to 3000 kVA	10000
7	Load above 3000 kVA up to 10000 kVA	15000
8	Load above 10000 kVA	25000

#### NOTE:

1. The processing fee shall be non-refundable and non-adjustable.
2. The processing fee under S.No.1 shall be applicable only on those consumers who have BPL Card.
3. This fee shall be applicable for new connection, tatkal temporary connection, temporary connection, reduction and enhancement of load (depending on the final load), mutation of names and shifting of connection.
4. This shall be applicable for all the categories of prospective / existing consumer.





**CHAPTER 3**  
**SECURITY**

S.No	Description	Security (Rs.)
1.	Domestic Light & Fan for load up to 1 kW only (LMV-1) (For BPL category 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.	Private Advertising, Sign Post, Sign Board, Glow Sign and Flex (LMV-2)	6000 / kW
7.	Public lighting (LMV-3)	3400 / kW for Gram Panchayat, 4000 / kW for Nagar Palika & Nagar Panchayat, 5000 / kW for Nagar Nigam
8.	Public Institution LMV-4 (A)	4000 / kW
9.	Private Institution LMV-4 (B)	4000 / kW
10.	Private Tube well (LMV-5)	300 / HP
11.	Small and Medium Power (LMV-6)	1350 / kW
12.	Public Water Work (LMV-7)	4000 / kVA
13.	State Tube well, Panchayati raj Tube wells, Pump Canals (LMV-8)	2000 / kW
14.	Non-Industrial Bulk Load (HV-1)	4500 / kVA
15.	Large and Heavy Power (HV-2)	2200 / kVA
16.	Railway Traction (HV-3)	4500 / kVA
17.	Metro Rail (HV-3)	3000 / kVA
18.	Lift Irrigation works (HV-4)	3500 / kVA
19.	Electrical Vehicle Public Charging Station (LT & HT)	400 / kW

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**NOTE:**

1. The minimum amount of Security Deposit shall be as per Chapter 3. However on the basis of consumption Security deposit to cover the estimated power consumption for 45 days shall be made by all consumer / applicant instead of two 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. No security shall be charged if the connection is given / to be given through pre-paid meter, subject to the conditions mentioned in Annexure-26 under the heading note.
4. No security shall be charged from
  - a. BPL consumer
  - b. Departmental consumer, if electricity bill is deducted from salary / pension.
5. 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 opting for prepaid meter.
6. In case of enhancement of load, the security for the total load after enhancement shall be calculated as per the rates given in the Cost Data Book and credit shall be given for the already deposited security. In case of reduction of load the same procedure shall be followed and any excess deposit of the consumer with the licensee shall be refunded by the licensee.
7. The security may be adjusted against any outstanding bill after permanent disconnection.
8. The security may be enhanced or reduced subsequently as per provisions of the Electricity Supply Code.
9. 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).
10. For Security Amount being above Rupees thirty lacs (Rupees 30,00000 only), the payment of first Rupees twenty lacs (Rupees 20,00000 only) has to be made by \*way of Banker's Cheque, Demand Draft or Cheque & amount exceeding Rupees twenty lacs (Rupees 20,00000 only) may be paid by way of a Bank Guarantee if consumer so desires. The Security Amount for contracted load exceeding 10 MW, the total security amount may continue to be paid by way of Bank Guarantee. The renewal of Bank Guarantee shall be the responsibility of the consumer. If any default in renewal of bank guarantee occurs, the consumer would be liable to pay a penalty of Rs. 500 (Five Hundred only) per lac per day of Bank Guarantee amount to the licensee for each default. Licensee may also disconnect the supply of power as per due process in such cases. In case the bank guarantee submitted by the consumer is found to be fake, the licensee will be entitled to disconnect the connection after giving a notice and in such cases the consumer will be bound to submit the security amount by way of a bank draft / banker's cheque only.



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## CHAPTER 4

### LINE CHARGES FOR OVERHEAD LINES

S.No	Description	Fixed Charge per connection (for Line up to 40 meter) (Rs.)	Variable Line Charge beyond 40 meters (Rs.)
1	2	3	4
	a. Private Tube Well and Pumping set (where transformer is to be installed)	<p>Consumer does not provide meter (Annexure-1) 36484</p> <p>Consumer provide meter (Annexure-1) 33563</p>	236 per meter (Annexure-1)
	b. Private Tube well and pumping set (where transformer is not to be installed)	<p>Consumer does not provide meter (for load above 7 HP) 4957 (Annexure-4)</p> <p>Consumer provide meter (for load above 7 HP) 2036 (Annexure-4)</p> <p>Consumer does not provide meter (for load 7 HP &amp; below) 3914 for 3-Phase (Annexure-5) 1340 for 1-Phase (Annexure-5)</p> <p>Consumer provide meter (for load 7 HP &amp; below) 993 for 3 Phase (Annexure-5) 468 for 1-Phase (Annexure-5)</p>	<p><b>For Rural Areas only</b></p> <p>a. For 3-Phase LT line Rs. 200 per meter (Annexure-15)</p> <p>b. For 1-Phase LT line Rs. 150 per meter (Annexure-15)</p> <p><b>For Other Areas</b></p> <p>a. For 3-Phase LT line Rs. 570 per meter (Annexure-14)</p> <p>b. For 1-Phase LT line Rs. 340 per meter (Annexure-14)</p>
2	In villages and having load up to 2 KW for domestic and non-domestic light and fan (including cost of meter)	<p>Consumer does not provide meter 1022 (Annexure-2)</p> <p>Consumer provide meter 150 (Annexure-2)</p>	Rs. 340 per meter (Annexure-14)
3	Load below 5 KW but not covered under Sl. No. 2 above	1270 (Annexure-3)	740 per meter (Annexure-13) For District HQ





S.No	Description	Fixed Charge per connection (for Line up to 40 meter) (Rs.)		Variable Line Charge beyond 40 meters (Rs.)
		3	4	
1				
		Consumer provide meter	398 (Annexure-3)	For area other than District HQ 340 per meter (Annexure-14)
		Consumer does not provide meter	4957 (Annexure-4)	For District HQ 970 per meter (Annexure-13)
4	Load 5 kW or more but below 25 kW	Consumer provide meter	2036 (Annexure-4)	For area other than District HQ 570 per meter (Annexure-14)
		Line Installed by the licensee	11615 (Annexure-6)	For District HQ 970 per meter (Annexure-13)
5	Load 25 kW or more up to 50 kW			For area other than District HQ 570 per meter (Annexure-14)
		Line installed by the licensee	201740 (Annexure-7)	A. For over head line in District HQ 690 per meter (Annexure-17)
		Line installed by the consumer.	83830 (Annexure-7)	B. For over head line in area other than District HQ 330 per meter (Annexure-17)
		Line installed by the licensee.	210380 (Annexure-8)	15% of the amount calculated at S.No A, B above.
		Line installed by the consumer.	85120 (Annexure-8)	A. For District HQ 690 per Meter (Annexure-17)
7	Load above 200 kVA up to 1 MVA			B. For area other than District HQ 330 per Meter (Annexure-17)
		Line installed by the licensee.	227480 (Annexure-9)	15% of the amount calculated at S.No. A, B above.
		Line installed by the consumer.		A. For District HQ 690 per Meter (Annexure-17)
8	Load above 1 MVA up to 3 MVA			B. For area other than District HQ 330 per Meter (Annexure-17)





S.No	Description	Fixed Charge per connection (for Line up to 40 meter) (Rs.)	Variable Line Charge beyond 40 meters (Rs.)
1	2	3	4
		Line installed by the consumer.	15 % of the amount calculated at S.No. A, B above.
		87690 (Annexure-9)	
9	Load above 3 MVA up to 4 MVA	Line installed by the licensee.	A. For District HQ 920 per Meter (Annexure-23) B. For area other than District HQ 720 per Meter (Annexure-23)
		200180 (Annexure-10)	15 % of the amount calculated at S.No. A, B above.
		Line installed by the consumer.	
		466050 (Annexure-11)	A. For Over Head Line District HQ 920 per Meter (Annexure-23) B. For Over Head Line in area other than District HQ 720 per Meter (Annexure-23)
	Load above 4 MVA up to 10 MVA	Line installed by the licensee.	
		238210 (Annexure-11)	8 % of the amount calculated at S.No. A, B above.
		Line installed by the consumer.	
		572970 (Annexure-12)	A. For Over Head Line District HQ 920 per Meter (Annexure-23) B. For Over Head Line in area other than District HQ 720 per Meter (Annexure-23)
11	Load above 10 MVA up to 20 MVA	Line installed by the licensee.	
		297360 (Annexure-12)	5 % of the amount calculated at S.No. A, B above.
12	Load above 20 MVA	Line installed by the consumer.	
		As per actual estimate. If Line installed by the consumer, 5 % of the cost of Line installation and full cost of metering system shall be charged.	





## CHAPTER – 4A

### LINE CHARGES FOR UNDERGROUND LINES

S.No.	Description 2	Fixed Charge per connection (for line up to 40 meter) (Rs.) 3	Variable Line Charge beyond 40 meters (Rs.) 4
1		1559 (Annexure-3A)	
1	For Load below 5 kW (other than rural consumer)	Consumer does not provide meter Consumer provide meter	As per estimate prepared by Licensee
2	For Load 5 kW or more but below 25 kW	Consumer does not provide meter Consumer provide meter	As per estimate prepared by Licensee
3	For Load 25 kW or more up to 50 kW	Line installed by the licensee	As per estimate prepared by Licensee
4	For Load 50 kW / 26 kVA up to 200 kVA	Line installed by the licensee Line installed by the consumer	1750 per meter (Annexure-18) 15% of the amount calculated above
5	For Load above 200 kVA up to 1 MVA	Line installed by the licensee Line installed by the consumer	1900 per meter (Annexure-18) 15% of the amount calculated above.
6	Load above 1 MVA up to 3 MVA	Line installed by the licensee Line installed by the consumer	2160 per meter (Annexure-18) 15% of the amount calculated above
7	Load above 3 MVA up to 4 MVA	Line installed by the licensee	2880 per meter (Annexure-24)





S.No.	Description	Fixed Charge per connection (for line up to 40 meter) (Rs.)	Variable Line Charge beyond 40 meters (Rs.)
		Line installed by the consumer 222290 (Annexure-10A)	15% of the amount calculated above.
8	Load above 4 MVA up to 10 MVA	Line installed by the licensee 710500 (Annexure-11A)	3490 per meter (Annexure-24)
		Line installed by the consumer 308360 (Annexure-11A)	8% of the amount calculated above.
9	Load above 10 MVA up to 20 MVA	Line installed by the licensee 839800 (Annexure-12A)	4630 per meter (Annexure-24)
		Line installed by the consumer 318700 (Annexure-12A)	5% of the amount calculated above.
	Load above 20 MVA	As per actual estimate. If line installed by the consumer, 5% of the cost of Line installation and full cost of metering system shall be charged.	



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**NOTE:**

1. Only Armoured cables shall be used for all connections. Cable may be provided by the consumer/licensee (if available with the licensee) for load up to 50 kW as per actual requirement, subject to maximum limit of 50 meters. In case the applicant's premise is beyond 40 meters, the licensee shall erect additional poles and charges shall be recovered from consumer under variable line charges for additional length beyond 40 meters.
2. Meter board shall be provided by the consumer for load up to 50 kW.
3. Meters and metering cubical (including CT, PT) shall be provided by the licensee. However, the consumer has an option to provide meter below load of 25 kW.
4. 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 and the line up to this point shall be maintained by the distribution licensee. All installation beyond point of supply shall be installed and maintained by the consumer.
5. In case of enhancement of load, labour & overhead charge shall be charged as below:

(a)	If the load is in the same band of load as mentioned in the above table	Nil
(b)	If the load is in the higher band	labour & overhead charge for higher load

6. In case of shifting of connection, line charge shall be charged as per above schedule based on the additional length of line along with actual cost of dismantling.
7. The supervision charges shall be charged at the rate of 15% for shifting of the installed line / equipment / plants.
8. For giving connection through 11 kV independent feeder, Rs. 6.259 lacs in urban area and Rs. 6.164 lacs in rural area will be additionally charged for the cost of circuit breaker and double pole. If the connection is provided through underground cable then the cost of double pole shall not be charged by the distribution licensee.
9. For giving connection through 33 kV independent feeder, Rs. 31.97 lacs shall be additionally charged for 33 kV feeder bay including circuit breaker, LI, BI, CT, LA etc.
10. 40 meters line shall be clear aerial distance suitable for sagging between last pole of distribution mains and bracket/ rag bolt at consumer end.
11. The licensee shall bear the cost of extension and installation of 40 meters of LT line if a group of 2 consumers apply together and pay all the charges for new connection. The cost of line beyond 40 meters shall be borne by the consumer / consumers.
12. Additional length of line shall be the shortest clear route distance between the nearest available distribution mains and the last pole/point near consumer's premise. Required up gradation of the nearest available distribution mains is responsibility of the distribution licensee/supplier and nothing shall be charged for this purpose. Fraction of meter shall be ignored in measuring length of line.
13. Line charge for temporary connection shall be charged as per above schedule subject to adjustment of the cost of cable and other materials received back after deducting 10%





depreciation as per straight line method at depreciation rates specified in UPERC Multi-Year Tariff Regulations.

14. The licensee shall not charge processing fee, line charge, system loading and security from its permanent employees and pensioners for one connection during their period of service or on retirement.

15. In case the applicant withdraws his application after making payment of Line charge and no work has been undertaken, the line charge shall be refunded as under.

15 days from the date of deposit	=	75%
30 days from the date of deposit	=	50%
60 days from the date of deposit	=	25%
After 60 days the date of deposit	=	Nil

16. Line charges in case of Railway crossing / National and State Highways shall be charged as per actual expenses wherever applicable.

17. The above schedule of rates is based on lines constructed on Steel Tubular Pole /Joist in District Headquarter/Area under Development Authority and PCC Pole in areas other than District Headquarter/ Area under Development Authority Construction work shall be undertaken accordingly.

18. If required, double metering arrangement may be done by the licensees at their own cost and security.

19. Concreting material (brick ballast, sand, cement) and labour shall be provided by the consumer for the P.T.W. connection. However, actual requirement of material etc. shall be communicated by the licensee to the consumer while offering terms and conditions for PTW connections.

20. Any subsidy for PTW consumer in respect of new connection shall be deducted from line charge.

21. LT loads up to 50 kW released on LT, shall be developed by the licensee only, for which no supervision charges shall be applicable. If the applicant desires to undertake such work himself on the deposition of 15% supervision charges, the permission has to be granted by the Managing Director of the Discom. The licensee shall ensure that the material used for construction by the applicant should be in accordance to the Discom's specifications.

22. Consumer having load above 1 MVA may opt for connection at 33 kV.

23. The Cost Data Book shall be effective from July 08, 2019. However, the connections which could not be released till then due to any reason what so ever shall not be reopened and such the connections shall be released on the basis of previous conditions.

24. Consumer shall provide separate earthing at the metering point.

25. If the Licensee so requires the consumer meter shall be installed at a place where the meter reading could be possible without opening the main gate of the premises.

26. The consumer shall be charged for underground services only when underground Distribution network is available in that area.





Line Charge for Private Tube Well and Pump Set**A. Fixed charge per connection for line up to 40 meter and metering.**

(i)	Consumer does not provide meter (As per Annexure-5)	-	Rs. 4957
(ii)	Consumer provide meter (As per Annexure-5)	-	Rs. 2036

**B. Fixed charge per connection for transformer.**

Cost of 25 kVA S/S on PCC Pole (As per Annexure-25)		Rs. 126168
Cost of concreting of poles (As per Annexure-25)	(-)	Rs. 1712
Cost of concreting of stays (As per Annexure -25)	(-)	Rs. 758
Labour & overhead charges (Annexure-25)	(-)	Rs.29116
Cost of 25 kVA s/s excluding Cost of concreting and labour		Rs.94582

Assuming 3 connections on one  
25 kVA sub-station, cost per connection      Rs. 31527.33  
say Rs. 31527

**C. Total fixed charge (A+B)**

(i)	Consumer does not provide meter	= 4957 + 31527 = 36484
(ii)	Consumer provide meter	= 2036 + 31527 = 33563

**D. Variable charge**

Cost of 1 km 11 kV line on PCC Pole (Annexure-17)		Rs. 326106
Cost of concreting of poles (Annexure-17)	(-)	Rs. 14552
Cost of concreting of stays (Annexure-17)	(-)	Rs. 758
Labour & overhead charge (Annexure-17)	(-)	Rs. 75255
Cost of 1 km line excluding cost of concreting and labour charges		Rs. 235541

**Cost of 11kV line per meter      235.541 say Rs. 236/-**

Note: Consumer shall pay total charges under deposit scheme.

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## ANNEXURE - 2

## Fixed Line Charge for domestic &amp; non-domestic connection in village Load Up to 2 KW for overhead services

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	2×4 mm <sup>2</sup> PVC armoured Cable with catenary arrangement	Metre.	38	50	1900
2	1 Ph-2 W Electronic meter with meter box	No.	872	1	872
3	Labour & overhead charges	L.S.		L.S.	150
	<b>Total</b>				<b>2922</b>
	<b>N.B:</b> Cable shall be provided by consumer.				
<b>Amount chargeable to consumer</b>					
(A)	Meter Provided by licensee	=	2922-1900		<b>Rs. 1022</b>
(B)	Meter Provided by Consumer	=	2922-1900-872		<b>Rs. 150</b>





## ANNEXURE - 3

## Fixed Line Charge Load below 5 KW

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	2×6 mm <sup>2</sup> PVC armoured Cable with catenary arrangement	Metre.	45	50	2250
2	1 Ph-2 W Electronic meter with meter box	No.	872	1	872
3	Labour & overhead charges			L.S.	398
	<b>Total</b>				<b>3520</b>

## N.B:

- 1 Cable may be provided by consumer.
- 2 Meter may be provided by the licensee or consumer.

## Amount chargeable to consumer

(A)	Meter provided by licensee	=	3520-2250	Rs. 1270
(B)	Meter provided by consumer	=	3520-2250-872	Rs. 398





## ANNEXURE – 3 A

**Fixed Line Charge for Load below 5 kW (Other than rural consumer)  
Underground Services**

S.No	Item	UOM	Qty.	Material Cost	Total C = N x A
			N	A	
1	2C x 10 mm <sup>2</sup> armoured cable	Metre.	50	56	2,800
2	PVC pipe of 2" Diameter	Metre.	5	22	110
3	10 mm <sup>2</sup> Aluminium Thimble	No.	4	2	8
4	<b>Single phase static whole current meter with meter box</b>	No.	1	872	872
	<b>Labour at the rate of 15%</b>				<b>569</b>
	<b>Total</b>				<b>4,359</b>
N.B:					
1	Cable may be provided by consumer.				
2	Meter may be provided by the licensee or consumer				
<b>Amount chargeable to consumer</b>					
(A)	<b>Meter provided by licensee</b>	=		4359-2800	<b>Rs. 1559</b>
(B)	<b>Meter provided by consumer</b>	=		4359-2800-872	<b>Rs. 687</b>
<b>Wherever road crossing is required Lump Sum charges of Rs.1500 shall be charged</b>					





## ANNEXURE - 4

## Fixed Line 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	4×25 mm <sup>2</sup> XLPE armoured Cable with catenary arrangement	Metre.	213	50	10650
2	3 Phase-4 W electronic kWh meter 10-60 A with meter box	No.	2921	1	2921
3	Labour & overhead charges	L.S.		L.S.	2036
	<b>Total</b>				<b>15607</b>
<b>N.B:</b>					
1	Cable may be provided by consumer.				
2	Meter may be provided by the licensee or consumer.				
<b>Amount chargeable to consumer</b>					
(A)	Meter provided by licensee	=	15607-10650		<b>Rs. 4957</b>
(B)	Meter provided by consumer	=	15607-10650-2921		<b>Rs. 2036</b>





## ANNEXURE – 4 A

**Fixed Line Charge**  
**Load 5 kW or more but below 25 KW Underground Services**

S.No	Item	UOM	Qty.	Material Cost	Total C = N x A
			N	A	
1	3.5 C x 35 mm <sup>2</sup> armoured cable	Meter	50	220	11000
2	PVC pipe of 3" Diameter	Meter	8	37	296
3	16 mm <sup>2</sup> Aluminium Thimble	No.	2	3	6
4	35 mm <sup>2</sup> , Aluminium Thimble	No.	6	5	30
5	Three Phase Static Whole Current Meter with Meter Box	No.	1	2921	2921
6	Sundry Items	Lot.	1	245	245
7	Labour & overhead charges at the rate of 15 %	L.S.	2505	L.S.	2505
	<b>Total Cost</b>				<b>17003</b>
<b>N.B:</b>					
1	Cable may be provided by consumer.				
2	Meter may be provided by consumer				
<b>Amount chargeable to consumer</b>					
(A)	Meter provided by licensee	=	17003-11000		<b>Rs. 6003</b>
(B)	Meter provided by consumer	=	17003 – 11000 – 2921		<b>Rs. 3082</b>
<b>Wherever road crossing is required Lump Sum charges of Rs.2200 shall be charged</b>					





## ANNEXURE - 5

**Fixed Line 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 <sup>2</sup> XLPE-armoured Cable with catenary arrangement	Metre.	213	50	10650
2	3 Ph-4 W electronic kWh meter 10-60 A with meter box	No.	2921	1	2921
3	Labour & overhead charges	L.S.		L.S.	2036
	<b>Total</b>				<b>15607</b>
<b>N.B:</b>					
1	Cable may be provided by consumer.				
2	Meter may be provided by the licensee or consumer.				
<b>Amount chargeable to consumer</b>					
(A)	<b>Meter provided by licensee</b>	=	15607-10650		<b>4957</b>
(B)	<b>Meter provided by consumer</b>	=	15607-10650-2921		<b>2036</b>

**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 <sup>2</sup> armoured Cable with catenary arrangement	Metre.	50			74	3700
2	2×6 mm <sup>2</sup> armoured Cable with catenary arrangement	Metre.	50	45	2250		
3	3 Ph-4 W electronic KWH Meter 10-60 A with meter box	No.	1			2921	2921
4	1 Ph-2 W Electronic Meter with meter box	No.	1	872	872		
5	Labour & overhead charges	L.S.	L.S.	468	468	993	993
	<b>Total</b>				<b>3590</b>		<b>7614</b>
<b>N.B:</b>							
1	Cable may be provided by consumer.						
2	Meter may be provided by the licensee or consumer.						
<b>Amount chargeable to consumer</b>				<b>Three Phase (Rs.)</b>		<b>Single Phase (Rs.)</b>	
(A)	<b>Meter provided by licensee</b>	7614-3700	<b>3914</b>	3590-2250		<b>1340</b>	
(B)	<b>Meter provided by consumer</b>	7614-3700-2921	<b>993</b>	3590-2250-872		<b>468</b>	

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

Load for PTW or Pumping Set	Type of supply
5 HP or below	Single Phase/ Three phase
Above 5 HP	Three phase





## ANNEXURE - 6

**Fixed Line Charge Load above 25 kW or more up to 50 kW (56 KVA)  
Over Head Services**

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	3.5×70 mm <sup>2</sup> Armoured Cable with catenary arrangement	Metre.	248	50	12400
2	3 Phase-4 W, Static LT TVM with metering cubicle	No.	8483	1	8483
3	Labour & overhead charges	L.S.	3132	L.S.	3132
	<b>Total</b>				<b>24015</b>
<b>N.B:</b> Cable may be provided by consumer.					
<b>Amount chargeable to consumer</b>			24015-12400	<b>Rs.</b>	<b>11615</b>

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## ANNEXURE – 6 A

**Fixed Line Charge Load above 25 KW or more up to 50 KW (56 KVA)  
Underground Services**

S.No	Particulars	Unit	Rate	Qty.	Amount (Rs.)
1	2	3	4	5	6
1	Cable 1100 V, XLPE 70 mm <sup>3</sup> 1/2 Core	Metre.	248	50	12400
2	3 Phase-4 W static LT TVM with metering cubicle.	No.	8483	1	8483
3	100 mm Dia. x 1 M long RCC half round muff for cables	No.	77	25	1925
4	Bracket clamps for three phase meter box	No.	18	1	18
5	Clamps – Three phase meter box	No.	1	52	52
6	Sundry items	No.	300	1	300
7	<b>Total</b>				<b>23178</b>
8	<b>Labour and overhead charges @ 15 % of material cost</b>	L.S.			<b>3477</b>
	<b>Sub Total</b>				<b>26655</b>
<b>Wherever road crossing is required Lump Sum charges of Rs.3000 shall be charged</b>					

*Sh*



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**ANNEXURE - 7**

**Fixed Line Charge Load above 50 kW/56 kVA up to 200 kVA  
Overhead Services**

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	3×70 mm <sup>2</sup> 11 kV XLPE Cable	Metre.	520	50	26000
2	I/D & O/D Cable Jointing Kit suitable for 3×70 mm <sup>2</sup> XLPE Cable	No	4165	2	8330
3	GI Pipe 6" dia	Metre.	1475	8	11800
4	Earthing Complete	No	838	4	3352
5	Stay Set Complete	No.	1961	4	7844
6	ACSR Dog Conductor	Metre.	79	60	4740
7	11 kV Pin Insulator	No.	196	6	1176
8	11 kV Pin with nut	No.	72	6	432
9	11 kV Disc Insulator	No.	315	3	945
10	11 kV Disc fitting	No.	97	3	291
11	Top Channel M.S. 100×50×2240 mm	No.	826	1	826
12	Droper Channel M.S. 100×50×2000 mm	No.	738	1	738
13	ST Pole 11 Metre.	No.	15049	2	30098
14	Concreting of Support	No.	836	2	1672
15	Number Plate	No.	391	1	391
16	Danger board with clamp	No.	461	1	461
17	Barbed Wire	Kg.	162	4	648
18	Aluminium tape	Kg.	306	1	306
19	Stone pad 300×300×75 mm	No.	140	2	280
20	concreting of stay	No.	379	4	1516
21	Clamp with bolt & nut	No.	304	16	4864
	<b>Sub Total</b>				<b>106710</b>
22	Labour & overhead charges	L.S.		L.S.	32013
	<b>Sub Total Service Line Installation</b>				<b>138723</b>
<b>B</b>	<b>Metering system</b>				
23	3 Ph -4 W Static TVM 11 kV	No.	3768	1	3768
24	11 kV Pilfer proof metering cubicle	No.	44709	1	44709
	<b>Sub Total Service Line Installation</b>				<b>48477</b>
25	Labour & overhead charges	L.S.		L.S.	14543
	<b>Sub Total Metering System</b>				<b>63020</b>
	<b>Total Service Line + Metering</b>				<b>201743</b>
<b>Amount chargeable to consumer</b>					
(A)	Line installed by licensee :	Rs.	201743	Say Rs.	201740
(B)	Line installed by consumer:	Rs.	138723 × 0.15 + 63020 =Rs.83829	Say Rs.	83830





## ANNEXURE – 7 A

**Fixed Line Charge Load above 50 kW/ 56 KVA up to 200 kVA  
Underground Services**

S.No	Particulars	Unit	Rate	Qty	Amount (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	Cable 11 kV (E) XLPE 70 mm <sup>3</sup> Core Aluminium conductor (EC Grade)	Metre.	520	100	52000
2	Straight through joint for 11 kV (E) 70 mm <sup>2</sup> 3 – Core A2XCEFY compact Aluminium	No.	9622	2	19244
3	Indoor type cable termination for 11 kV (E) 70 mm <sup>2</sup> 3-Core AZXCEFY Compact	No.	4165	4	16660
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter long	Roll.	2808	2	5616
5	140 mm OD PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 in 6 Metre	No.	2945	1	2945
6	Rigid PVC pipes: Size 110 mm OD x thickness 6.1 mm x 2.5 Metre long	No.	508	6	3048
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	927	2	1854
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	367	20	7340
9	EPOXY Compound General Purpose	KG	175	0.4	70
10	Hot Dip Galvanized cable support clamps for 120 mm <sup>2</sup> to 150 mm <sup>2</sup> 3-Core Cable	No.	696	4	2784
11	6" Dia RCC half round Muffs for HT Cables	No.	95	90	8550
	<b>Sub Total</b>				<b>120111</b>
12	Labour and overhead charges	L.S.	36033		36033.0
	<b>Sub Total Service Line Installation</b>				<b>156144.0</b>
<b>B</b>	<b>Metering System</b>				
13	3 Ph - 4 W Static TVM 11 kV	No.	3768	1	3768
14	11 kV Pilfer proof metering cubicle	No.	44709	1	44709
	<b>Sub Total</b>				<b>48477</b>
	Labour and overhead charges @ 30% of the material cost	L.S.			14543
	<b>Sub Total Metering System</b>				<b>63020</b>
	<b>Total Service</b>				<b>219164.0</b>
<b>Amount chargeable to consumer :</b>					
(A)	Line installed by licensee	:Rs.	219164.0	Say Rs.	219160
(B)	Line installed by consumer	:Rs.	Rs. 156144.1 × 0.15 + 63020 = Rs. 86441.6	Say Rs.	86440
<b>Ring main unit shall be installed for Ring Main System/ underground services</b>					





## ANNEXURE - 8

**Fixed Line Charge Load above 200 KVA up to 1 MVA  
Overhead Services**

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	3×120 mm <sup>2</sup> 11 kV XLPE Cable	Metre.	654	50	32700
2	I/D & O/D Cable Jointing Kit suitable for 11 kV 3×120 mm <sup>2</sup> XLPE Cable	No.	4165	2	8330
3	GI Pipe 6" dia	Metre.	1463	8	11704
4	Earthing Complete	No.	838	4	3352
5	Stay Set Complete	No.	1961	4	7844
6	ACSR Dog Conductor	Metre.	79	60	4740
7	11 kV Pin Insulator	No.	196	6	1176
8	11 kV Pin with nut	No.	72	6	432
9	11 kV Disc Insulator	No.	315	3	945
10	11 kV Disc fitting	No.	97	3	291
11	Top Channel M.S. 100×50×2240 mm	No.	826	1	826
12	Droper Channel M.S. 100×50×2000 mm	No.	738	1	738
13	ST Pole 11 Metre.	No.	15049	2	30098
14	Concreting of Support	No.	856	2	1712
15	Number Plate	No.	391	1	391
16	Danger board with clamp	No.	461	1	461
17	Barbed Wire	Kg.	162	4	648
18	Aluminium tape	Kg.	306	1	306
19	Stone pad 300×300×75 mm	No.	140	2	280
20	concreting of stay	No.	379	4	1516
21	Clamp with bolt & nut	No.	304	16	4864
	<b>Sub Total</b>				<b>113354</b>
22	Labour & overhead charges	L.S.		L.S.	34006
	<b>Sub Total Service line Installation</b>				<b>147360</b>
<b>B</b>	<b>Metering system</b>				
23	3 Ph-4 W Static TVM 11 kV	No.	3768	1	3768
24	11 kV Pilfer proof metering cubicle	No.	44709	1	44709
	<b>Sub Total</b>				<b>48477</b>
25	Labour & overhead charges	L.S.		L.S.	14543
	<b>Sub Total Metering System</b>				<b>63020</b>
	<b>Total Service Line + Metering</b>				<b>210380</b>
<b>Amount chargeable to consumer:</b>					
(A)	Line installed by licensee : Rs.		210380.3	Say Rs.	210380
(B)	Line installed by consumer : Rs.		147360 × 0.15 + 63020 = 85124	Say Rs.	85120





**ANNEXURE – 8 A**

**Fixed Line Charge Load above 200 KVA up to 1 MVA  
Underground Services**

S.No	Particulars	Unit	Rate	Qty	Amount (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	Cable 11 KV (E) XLPE 120 mm <sup>2</sup> / 3 - Core Aluminium conductor (EC Grade)	Metre.	654	100	65400
2	Straight through joint for 11 kV (E) 120 mm <sup>2</sup> 3 – Core A2XCEFY Compact Aluminium	No.	9983	2	19966
3	Indoor type cable termination for 11 kV (E) 120 mm <sup>2</sup> 3-Core AZXCEFY Compact	No.	4770	2	9540
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter Long	Roll	2808	2	5616
5	140 mm OD PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 in 6 metre	No.	2945	1	2945
6	Rigid PVC pipes: Size 110 mm OD x thickness 6.1 mm x 2.5 metre Long	No.	508	6	3048
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	956	2	1912
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	366	20	7320
9	EPOXY Compound General Purpose	KG	174	0.4	70
10	Hot Dip Galvanized cable support clamps for 120 mm <sup>2</sup> to 150 mm <sup>2</sup> 3-Core Cable	No.	697	4	2788
11	6" Dia RCC half round Muffs for HT Cables	No.	95	150	14250
12	Sundry Items	L.S.	3000	1	3000
	<b>Sub Total</b>				<b>135855</b>
13	Labour and overhead @ 30% material cost	Metre.			40756.4
	<b>Sub Total</b>				<b>176611.0</b>
<b>B</b>	<b>Metering System</b>				
14	3 Ph - 4 W static TVM 11 KV	No.	3768	1	3768
16	11 KV Pilfer proof metering cubicle	No.	44709	1	44709
	<b>Sub Total</b>				<b>48477</b>
17	Labour & overhead charges	L.S.			14543.0
	<b>Sub Total metering system</b>				<b>63020.0</b>
	Total Service line metering				<b>239631.0</b>
<b>Amount chargeable to consumer</b>					
<b>(A)</b>	Line installed by licensee	Rs.	239631.1	Say Rs.	<b>239630</b>
<b>(B)</b>	Line installed by consumer	Rs.	176611*.15+63020.1 = 89512	Say Rs.	<b>89510</b>
<b>Ring main unit shall be installed for Ring Main System/ underground services</b>					

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## ANNEXURE - 9

## Fixed Line Charge Load above 1 MVA up to 3 MVA

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	3×185 mm <sup>2</sup> 11 KV XLPE Cable	Metre.	891	50	44550
2	I/D & O/D Cable Jointing Kit suitable for 11 KV 3×185 mm <sup>2</sup> XLPE Cable	No.	4770	2	9540
3	GI Pipe 6" dia	Metre.	1475	8	11800
4	Earthing Complete	No.	838	4	3352
5	Stay Set Complete	No.	1961	4	7844
6	ACSR Dog Conductor	Metre.	79	60	4740
7	11 kV Pin Insulator	No.	196	6	1176
8	11 kV Pin with nut	No.	72	6	432
9	11 kV Disc Insulator	No.	315	3	945
10	11 kV Disc fitting	No.	97	3	291
11	Top Channel M.S. 100×50×2240 mm	No.	826	1	826
12	Droper Channel M.S. 100×50×2000 mm	No.	738	1	738
13	STP Pole 11 Metre.	No.	15049	2	30098
14	Concreting of Support	No.	856	2	1712
15	Number Plate	No.	391	1	391
16	Danger board with clamp	No.	461	1	461
17	Barbed Wire	Kg.	162	4	648
18	Aluminium tape	Kg.	306	1	306
19	Stone pad 300×300×75 mm	No.	140	2	280
20	concreting of stay	No.	379	4	1516
21	Clamp with bolt & nut	No.	304	16	4864
	<b>Sub Total</b>				<b>126510</b>
22	Labour & overhead charges	L.S.		L.S.	37953
	<b>Sub Total Service line Installation</b>				<b>164463</b>
<b>B</b>	<b>Metering system</b>				
23	3 Ph-4 W Static TVM 11 Kv	No.	3768	1	3768
24	11 kV Pilfer proof metering cubicle	No.	44709	1	44709
	<b>Sub Total</b>				<b>48477</b>
25	Labour & overhead charges			L.S.	14543
	<b>Sub Total Metering System</b>				<b>63020</b>
	<b>Total Service line + Metering</b>				<b>227483</b>
<b>Amount chargeable to consumer:</b>					
(A)	Line installed by licensee	: Rs.	227483	Say Rs.	227480
(B)	Line installed by consumer	: Rs.	164463 × 0.15 + 63020 = 87690	Say Rs.	87690





## ANNEXURE – 9 A

**Fixed Line Charge Load above 1 MVA up to 3 MVA  
Underground Services**

S.No	Particulars	Unit	Rate	Qty	Amount (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	Cable 11 kV (E) XLPE 185 mm <sup>3</sup> Core Aluminium conductor (EC Grade)	Metre.	891	100	89100
2	Straight through joint for 11 kV (E) 185 mm <sup>2</sup> 3-Core A2XCEFY compact Aluminium	No.	10166	2	20332
3	Indoor type cable termination for 11 kV (E) 185 mm <sup>2</sup> 3-Core AZXCEFY Compact	No.	4770	2	9540
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter long	Roll.	2808	2	5616
5	160 mm OD PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 in 6 metre	No.	3240	1	3240
6	Rigid PVC pipes: Size 160 mm OD x thickness 6.1 mm x 2.5 metre long	No.	600	6	3600
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	956	2	1912
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	366	20	7320
9	EPOXY Compound General Purpose	KG	174	0.4	70
10	Hot Dip Galvanized cable support clamps for 120 mm <sup>2</sup> to 150 mm <sup>3</sup> 3-Core Cable	No.	697	4	2788
11	6" Dia RCC half round Muffs for HT Cables	No.	95	150	14250
12	Sundry Items	L.S.	3000	1	3000
	<b>Sub Total</b>				<b>160767.6</b>
13	Labour and overhead	Metre.			48230.28
	<b>Sub Total</b>				<b>208998</b>
<b>B</b>	<b>Metering System</b>				
14	3 Ph-4 W Static TVM 11 kV	No.	3768	1	3768
16	11 kV Pilfer proof metering cubical	No.	44709	1	44709
	<b>Sub Total</b>				<b>48477</b>
17	Labour & overhead charges			L.S.	14543.1
	<b>Sub Total metering system</b>				<b>63020</b>
	Total Service line metering				<b>272018</b>
<b>Amount chargeable to consumer</b>					
(A)	Line installed by licensee		Rs. 272018	Say Rs.	<b>272020</b>
(B)	Line installed by consumer		208998*0.15 + 63020.1 = 94369.7	Say Rs.	<b>94370</b>
<b>Ring main unit shall be installed for Ring Main System/ underground services</b>					





## ANNEXURE - 10

## Fixed Line Charge Load above 3 MVA up to 4 MVA

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	3×120 mm <sup>2</sup> 33 kV XLPE Cable	Metre.	1173	50	58650
2	I/D & O/D Cable Jointing Kit suitable for 33 kV 3×120 mm <sup>2</sup> XLPE Cable	No.	21542	2	43084
3	GI Pipe 6" dia	Metre.	1475	8	11800
4	Earthing Complete	No.	838	4	3352
5	Stay Set Complete	No.	1961	4	7844
6	ACSR Dog Conductor	Metre.	79	60	4740
7	33 kV Pin Insulator	No.	196	6	1176
8	33 kV Pin with nut	No.	72	6	432
9	Disc Insulator 70 kN	No.	472	12	5664
10	33 kV Disc fitting	No.	237	3	711
11	Top Channel M.S. 125×65×3200 mm	No.	1592	1	1592
12	Droper Channel M.S. 100×50×2600 mm	No.	959	1	959
13	ST Pole 11 Metre.	No.	15049	2	30098
14	Concreting of support	No.	856	2	1712
15	Number Plate	No.	391	1	391
16	Danger board with clamp	No.	461	1	461
17	Barbed Wire	Kg.	162	4	648
18	Aluminium tape	Kg.	306	1	306
19	Stone pad 300×300×75 mm	No.	140	2	280
20	Concreting of stay	No.	379	4	1516
21	Clamp with bolt & nut	No.	304	16	4864
	<b>Sub Total</b>				<b>180280</b>
22	Labour & overhead charges			L.S.	54084
	<b>Sub Total Service line Installation</b>				<b>234364</b>
<b>B</b>	<b>Metering system</b>				
23	3 Ph -4 W Static TVM 33 KV	No.	3768	1	3768
24	33 KV Pilfer proof metering cubicle	No.	123176	1	123176
	<b>Sub Total</b>				<b>126944</b>
25	Labour & overhead charges			L.S.	38083
	<b>Sub Total Metering System</b>				<b>165027</b>
	<b>Total Service line + Metering</b>				<b>399391</b>
<b>Amount chargeable to consumer:</b>					
(A)	Line installed by licensee	Rs.	399391	Say Rs.	399390
(B)	Line installed by consumer	Rs.	234364 × 0.15 + 165027 = 200182	Say Rs.	200180





## ANNEXURE – 10 A

**Fixed Line Charge Load above 3 MVA up to 4 MVA  
Underground Services**

S.No	Particulars	Unit	Rate	Qty	Amount (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	Cable 33 kV (E) XLPE 120 mm <sup>3</sup> CORE Aluminium conductor (EC Grade)	Metre.	1173	100	117300
2	Outdoor type cable termination for 33 kV (E) 120 mm <sup>2</sup> 3-Core AZXCEFY Compact	No.	21542	2	43084
3	Indoor type cable termination for 33 kV (E) 120 mm <sup>2</sup> 3-Core AZXCEFY Compact	No.	16650	4	66600
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter long	Roll	2808	4	11232
5	140 mm OD PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 in 6 Metre	No.	6545	1	6545
6	Rigid PVC pipes: Size 160 mm OD x thickness 6.1 mm x 2.5 Metre long	No.	662	6	3972
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	957	4	3828
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	366	20	7320
9	EPOXY Compound General Purpose	KG	174	0.4	70
10	Hot Dip Galvanized cable support clamps for 120 mm <sup>2</sup> to 150 mm <sup>2</sup> 3-Core Cable	No.	708	2	1416
11	6" Dia RCC half round Muffs for HT Cables	No.	95	150	14250
12	Sundry Items	L.S.	8000	1	8000
13	Trenchless road crossing	Metre.	10000	1	10000
	<b>Sub Total</b>				<b>293617</b>
	Labour and overhead				88085
	<b>Sub Total Service Line Installation</b>				<b>381702</b>
<b>B</b>	<b>Metering System</b>				
14	3 Ph - 4 W Static TVM 33 kV	No.	3768	1	3768
16	33 kV Pilfer proof metering cubical	No.	123176	1	123176
	<b>Sub Total</b>				<b>126944</b>
17	Labour & overhead charges			L.S.	38083.2
	<b>Sub Total Metering System</b>				<b>165027</b>
	<b>Total Service line metering</b>				<b>546729</b>
<b>Amount chargeable to consumer</b>					
(A)	Line installed by licensee	Rs.	546729	Say Rs.	546730
(B)	Line installed by consumer	Rs.	381702 × 0.15+ 165027 = 222285	Say Rs.	222290
<b>Ring main unit shall be installed for Ring Main System of underground services</b>					





## ANNEXURE - 11

## Fixed Line Charge Load above 4 MVA up to 10 MVA

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	3×300 mm <sup>2</sup> 33 kV XLPE Cable	Metre.	1599	50	79950
2	I/D & O/D Cable Jointing Kit suitable for 33 kV 3×300 mm <sup>2</sup> XLPE Cable	No.	21542	2	43084
3	GI Pipe 6" dia	Metre.	90	8	720
4	Earthing Complete	No.	838	4	3352
5	Stay Set Complete	No.	1961	4	7844
6	ACSR Dog Conductor	Metre.	79	60	4740
7	33 kV Pin Insulator	No.	196	6	1176
8	33 kV Pin With nut	No.	72	6	432
9	Disc Insulator 70 KN	No.	472	12	5664
10	33 kV Disc fitting	No.	237	3	711
11	Top Channel M.S. 125×65×3200 mm	No.	1592	1	1592
12	Droper Channel M.S. 100×50×2600 mm	No.	959	1	959
13	S.T. Pole 11 Metre	No.	15049	2	30098
14	Concreting of support	No.	856	2	1712
15	Number Plate	No.	391	1	391
16	Danger board with clamp	No.	461	1	461
17	Barbed Wire	Kg.	162	4	648
18	Aluminium tape	Kg.	306	1	306
19	Stone pad 300×300×75 mm	No.	140	2	280
20	concreting of stay	No.	379	4	1516
21	Clamp with bolt & nut	No.	304	16	4864
	<b>Sub Total</b>				<b>190500</b>
22	Labour & overhead charges	L.S.			57150
	<b>Sub Total Service line Installation</b>				<b>247650</b>
<b>B</b>	<b>Metering system</b>				
23	3 Ph -4 W Static TVM 33 KV	No.	3768	1	3768
24	33 KV Pilfer proof metering cubicle	No.	164230	1	164230
	<b>Sub Total</b>				<b>167998</b>
25	Labour & overhead charges	L.S.			50399
	<b>Sub Total Metering System</b>				<b>218397</b>
	<b>Total Service line + metering</b>				<b>466047</b>
<b>Amount chargeable to consumer</b>					
(A)	Line installed by licensee : Rs.		466047	Say Rs.	466050
(B)	Line installed by consumer : Rs.		247650 × 0.08 + 218397 = 238209	Say Rs.	238210





**ANNEXURE – 11 A**

**Fixed Line Charges Load above 4 MVA up to 10 MVA  
Underground Services**

S. No	Particulars	Unit	Rate	Qty	Amount (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	Cable 33 kV (E) XLPE 300 mm <sup>2</sup> 3-Core Aluminium conductor (EC Grade)	Metre.	1599	100	159900
2	Outdoor type cable termination for 33 kV (E) 300 mm <sup>2</sup> 3-Core AZXCEFY Compact	No.	21542	2	43084
3	Indoor type cable termination for 33 kV (E) 300 mm <sup>2</sup> 3-Core AZXCEFY Compact	No.	16650	4	66600
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter long	Roll	2808	4	11232
5	140 mm O/D PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 of 6 Metre	No.	6545	1	6545
6	Rigid PVC pipes: Size 160 mm OD x Thickness 6.1 mm x 2.5 Metre long		662	6	3972
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	957	4	3828
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	367	20	7340
9	EPOXY Compound General Purpose	KG	174	0.4	70
10	Hot Dip Galvanized cable support clamps for 120 mm <sup>2</sup> to 300 mm <sup>3</sup> 3-Core Cable	No.	708	2	1416
11	6" Dia RCC half round Muffs for HT Cables	No.	95	150	14250
12	Sundry Items	L.S.	8000	1	8000
13	Trenchless road crossing	Metre.	10000	1	10000
	<b>Sub Total</b>				<b>336236.6</b>
	Labour and overhead				100871.0
	<b>Sub Total Service Line Installation</b>				<b>437107.6</b>
<b>B</b>	<b>Metering System</b>				
14	3 phase 4 wire 11000/110 V 100/5 A C.T. Operated H.T. Trivector meter	No.	3768	1	3768
16	0.5s class 33 KV metering cubicle with 3 Nos CT's & 3 Nos. P.T's with CTR5/5A	No.	206531	1	206531
	<b>Sub Total Metering System</b>				<b>210299</b>
17	Labour and overhead charges at the rate of 30% of material cost			L.S.	63089.7
	<b>Sub Total Metering System</b>				273388.7
	<b>Total Service line metering</b>				<b>710496.3</b>
<b>Amount chargeable to consumer</b>					
(A)	Line installed by licensee :	Rs.	710496	Say Rs.	710500
(B)	Line installed by consumer :	Rs.	437107 × 0.08 + 273389 = 308357	Say Rs.	308360
<b>Ring main unit shall be installed for Ring Main System / underground services</b>					

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## ANNEXURE- 12

## Fixed Line Charge Load above 10 MVA up to 20 MVA

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	3×400 mm <sup>2</sup> 33 kV XLPE Cable	Metre.	2398	50	119900
2	I/D & O/D Cable Jointing Kit suitable for 33 kV 3×400 mm <sup>2</sup> XLPE Cable	No.	21542	2	43084
3	GI Pipe 6" dia	Metre.	90	8	720
4	Earthing Complete	No.	838	4	3352
5	Stay Set Complete	Nos.	1961	4	7844
6	ACSR Dog Conductor	Metre.	79	60	4740
7	33 kV Pin Insulator	No.	196	6	1176
8	33 kV Pin With nut	No.	72	6	432
9	Disc Insulator 70 KN	No.	472	12	5664
10	33 kV Disc fitting	No.	237	3	711
11	Top Channel M.S. 125×65×3200 mm	No.	1592	1	1592
12	Droper Channel M.S. 100×50×2600 mm	No.	959	1	959
13	S.T. Pole 11 Metre	No.	15049	2	30098
14	Concreting of support	No.	856	2	1712
15	Number Plate	No.	391	1	391
16	Danger board with clamp	No.	461	1	461
17	Barbed Wire	Kg.	162	4	648
18	Aluminium tape	Kg.	306	1	306
19	Stone pad 300×300×75 mm	No.	140	2	280
20	concreting of stay	No.	379	4	1516
21	Clamp with bolt & nut	No.	304	16	4864
	<b>Sub Total</b>				<b>230450</b>
22	Labour & overhead charges			L.S.	69135
	<b>Sub Total Service line Installation</b>				<b>299585</b>
<b>B</b>	<b>Metering system</b>				
23	3 Ph -4 W Static TVM 33 kV	No.	3768	1	3768
24	33 kV Pilfer proof metering cubicle	No.	206531	1	206531
	<b>Sub Total</b>				<b>210299</b>
25	Labour & overhead charges			L.S.	63090
	<b>Sub Total Metering System</b>				<b>273389</b>
	<b>Total Service line + Metering</b>				<b>572974</b>
<b>Amount chargeable to consumer</b>					
(A)	Line installed by licensee	Rs.	572974	Say Rs.	572970
(B)	Line installed by consumer	Rs.	299585 × 0.08 + 273388.7 = 297356	Say Rs.	297360





**ANNEXURE - 12 A**

**Fixed Line Charges Load above 10 MVA up to 20 MVA  
Underground Services**

S. No	Particulars	Unit	Rate	Qty	Amount (Rs.)
1	2	3	4	5	6
<b>A</b>	<b>Service Line Installation</b>				
1	Cable 33 kV (E) XLPE 400 mm <sup>2</sup> / 3-Core Aluminium conductor (EC Grade)	Metre.	2398	100	239800
2	Outdoor type cable termination for 33 kV (E) 400 mm <sup>2</sup> 3-Core AZXCEFY Compact	No.	21542	2	43084
3	Indoor type cable termination for 33 kV (E) 400 mm <sup>2</sup> 3-Core AZXCEFY Compact	No.	21542	4	86168
4	Heat shrinkable Busbar insulating tape of size: 50 mm x 10 meter long	Roll.	2808	4	11232
5	140 mm OD PN-4 PE – 80 Grade UV stabilized HDPE pipe as per IS: 4984 in 6 Metre	No.	6545	1	6545
6	Rigid PVC pipes: Size 160 mm OD x Thickness 6.1 mm x 2.5 Metre long	No.	662	6	3972
7	Hot Dip Galvanized Earthing pipe electrode of size 1.5" dia	No.	957	4	3828
8	Hot Dip Galvanised Earthing Strip of size 50 mm x 6 mm x 2500 mm long	No.	367	20	7340
9	EPOXY Compound General Purpose	KG	174	0.4	70
10	Hot Dip Galvanized cable support clamps for 120 mm <sup>2</sup> to 300 mm <sup>3</sup> 3-Core Cable	No.	708	2	1416
11	6" Dia RCC half round Muffs for HT Cables	No.	95	150	14250
12	Sundry Items	L.S.	8000	1	8000
13	Trenchless road crossing	Metre.	10000	1	10000
	<b>Sub Total</b>				<b>435704.6</b>
	Labour and overhead				130711.4
	<b>Sub Total Service Line Installation</b>				<b>566416.0</b>
<b>B</b>	<b>Metering System</b>				
14	3 phase 4 wire 11000/110 V 100/5 A C.T. Operated H.T. Trivector meter	No.	3768	1	3768
16	0.5s class 33 KV metering cubicle with 3 Nos CT's & 3 Nos. P.T's with CTR5/5A	No.	206531	1	206531
	<b>Sub Total Metering System</b>				<b>210299</b>
17	Labour and overhead charges at the rate of 30% of material cost			L.S.	63089.7
	<b>Sub Total Metering System</b>				<b>273388.7</b>
	<b>Total Service line metering</b>				<b>839804.7</b>
<b>Amount chargeable to consumer</b>					
(A)	Line installed by licensee : Rs.		839805	Say Rs.	839800
(B)	Line installed by consumer : Rs.		566416 x 0.08 + 273389 = 318702	Say Rs.	318700
<b>Ring main unit shall be installed for Ring Main System / underground services</b>					



2







## ANNEXURE - 14

## Cost Analysis of One Kilometer of L.T. Single &amp; 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 Metre.	No.	2721	25	68025	25	68025
2	Stone Pad 300×300×75 mm	No.	140	25	3500	25	3500
3	L.T. Clamp with bolt & Nut	No.	304	75	22800	50	15200
4	Earth wire clamp	No.	304	25	7600	25	7600
5	L.T. Shackle insulator	No.	36	75	2700	50	1800
6	Bolt & Nut for Shackle insulator	Kg.	194	30	5820	20	3880
7	Loop guard complete 3-Phase	No.	46	50	2300		
8	Loop guard complete 1-Phase	No.	35			50	1750
9	Phase wire ACSR Dog	Km.	79004	3.09	244122	1.03	81374
10	Neutral cum earth wire	Kg.	142	157	22294	157	22294
11	Aluminium binding wire	Kg.	247	8	1976	4	988
12	Jointing sleeve for ACSR Dog	No.	103	3	309	1	103
13	Spacer L.T. P.V.C.	No.	89	75	6675	50	4450
14	Extra for stay at angle Location	No.	1961	8	15688	8	15688
15	Concreting of support	No.	856	25	21400	25	21400
16	Earthing complete	No.	838	8	6704	8	6704
17	Concreting of Stay	No.	379	8	3032	8	3032
	<b>Sub Total</b>				<b>434945</b>		<b>257788</b>
18	Labour & overhead charges			L.S.	130484	L.S.	77336
	<b>Total</b>				<b>565429</b>		<b>335124</b>
<b>Cost of 3-Phase L.T. Line per meter</b>		$565428.5 \times 0.001 = 565.429$		<b>Say Rs.</b>		<b>570</b>	
<b>Cost of 1-Phase L.T. Line per meter</b>		$335124 \times 0.001 = 335.124$		<b>Say Rs.</b>		<b>340</b>	





**ANNEXURE - 15**

**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.	2721	20	54420	20	54420
2	Stone Pad 300×300×75 mm	No.	140	20	2800	20	2800
3	L.T. Clamp with bolt & Nut	No.	304	60	18240	60	18240
4	Earth wire clamp	No.	304	20	6080	20	6080
5	L.T. Shackle insulator	No.	36	60	2160	20	720
6	Bolt & Nut for Shackle insulator	Kg.	194	18	3492	6	1164
7	Loop guard complete 3-Phase	No.	46	40	1840		
8	Loop guard complete 1-Phase	No.	35			40	1400
9	Phase wire ACSR Weasel	Km.	23984	3.09	74111	1.03	24704
10	Neutral cum earth wire	Kg.	142	157	22294	157	22294
11	Aluminium binding wire	Kg.	247	3	741	1	247
12	Jointing Sleeve for Weasel	No.	103	3	309	1	103
13	Spacer L.T. P.V.C.	No.	89	60	5340	60	5340
14	Extra for stay at angle Location	No.	1961	3	5883	3	5883
15	Concreting of support	No.	856	3	2568	3	2568
16	Earthing complete	No.	838	3	2514	3	2514
17	Concreting of stay	No.	379	3	1137	3	1137
	<b>Sub Total</b>				<b>203929</b>		<b>149614</b>
18	Labour & overhead charges			L.S.	61179	L.S.	44884
	<b>Total</b>				<b>265108</b>		<b>194498</b>
	<b>Variable Charge</b>						
	Cost of 1 Km L.T Line on PCC Pole		265108			194498	
	Cost of concreting of support	(-)	2568		(-)	2568	
	Cost of concreting of Stay	(-)	1137		(-)	1137	
	Labour & overhead Charges	(-)	61179		(-)	44884	
	Cost of 1 Km L.T Line excluding cost of Concreting and labour charges						
	<b>Total</b>		<b>200224</b>			<b>145909</b>	
	Cost of LT line per meter		200.22			145.909	
			<b>200</b>			<b>150</b>	

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## ANNEXURE - 16

**Cost Of material for Double Pole Structure with PCC / ST / Joist Girder Pole for 11 kV Line**

S.No	Particulars	Unit	Rate (Rs.)	PCC Pole		ST/ Joist Girder Pole	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6-	7	8
1	ST/Joist Girder Pole 11 Metre.	No.	15049			2	30098
2	P.C.C. Pole 8.5 Metre.	No.	2,721	2	5442		
3	Stone Pad 300×300×75 mm	No.	140	2	280	2	280
4	Top Channel M.S.100x50x2240	No.	826	1	826	1	826
5	Cross bracing M.S. Angle	Set	3159	1	3159	1	3159
6	Clamps with Bolt & Nut	No.	304	12	3648	12	3648
7	Barbed wire	Kg.	162	4	648	4	648
8	Danger board with clamp	No.	461	1	461	1	461
9	Concreting of PCC Pole	No.	856	2	1712		
10	Concreting of ST Pole	No.	856			2	1712
11	Earthing complete	No.	838	2	1676	2	1676
12	F Bracket	No.	265	3	795	3	795
13	11 KV Disc Insulators B&S type	No.	315	6	1890	6	1890
14	11 KV Disc fittings	No.	97	6	582	6	582
15	11 KV Pin Insulator	No.	196	3	588	3	588
16	11 KV Pin	No.	72	3	216	3	216
17	P.G. clamp	No.	304	6	1824	6	1824
18	Stay Complete	No.	2027	6	12162	6	12162
19	Concreting of stay	No.	379	6	2274	6	2274
20	Number plate	No.	391	1	391	1	391
	<b>Total</b>				<b>38574</b>		<b>63230</b>





## ANNEXURE - 17

## Cost Analysis of One Kilometer of 11 KV Line on PCC Pole / ST / Joist Girder Pole

S.No	Particulars	Unit	Rate (Rs.)	PCC Pole		ST/Joist Girder Pole	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	ST/Joist Girder Pole 11 Metre.	No.	15049			17	255833
2	P.C.C. Pole 8.5 Meter	No.	2721	17	46257		
3	Stone Pad 300×300×75 mm	No.	140	17	2380	17	2380
4	X-arm M.S. Angle 65×65×6 mm V Type	No.	744	17	12648	17	12648
5	Cross arms holding clamp	No.	304	17	5168	17	5168
6	11 kV Pin Insulator	No.	196	51	9996	51	9996
7	11 kV Pin with nut	No.	72	51	3672	51	3672
8	F Bracket	No.	265	17	4505	17	4505
9	ACSR Rabbit Conductor	Km.	39669			3.09	122577
10	ACSR Weasel Conductor	Km.	23984	3.09	74111		
11	Aluminium Tape	Kg.	306	1	306	1	306
12	Aluminium binding wire	Kg.	247	2	494	2	494
13	Jointing sleeve for ACSR Rabbit	No.	103			3	309
14	Jointing sleeve for ACSR Weasel	No.	103	3	309		
15	Danger board with clamp	No.	461	17	7837	17	7837
16	Concreting of Stay	No.	379	2	758	2	758
17	Barbed wire	Kg.	162	34	5508	34	5508
18	Extra for stays at angle Location	No.	961	2	1922	2	1922
19	Extra with stays at Road crossing	No.	961	1	961	1	961
20	Sectional D/P on STP (Annexure-16)	No.	63230			1	63230
21	Sectional D/P on PCC (Annexure-16)	No.	38574	1	38574		
22	Concreting of PCC Pole	No.	856	17	14552		
23	Concreting of ST Pole	No.	856			17	14552
24	Earthing Complete	No.	838	17	14246	17	14246
25	Number Plate	No.	391	17	6647	17	6647
	<b>Sub Total</b>				<b>250851</b>		<b>533549</b>
26	Labour & overhead charges	L.S.		L.S.	75255	L.S.	160065
	<b>Total</b>				<b>326106</b>		<b>693614</b>
<b>Cost of 11 kV Line per meter on P.C.C. Pole</b>		326106 x 0.001 = 326.106			<b>Say Rs.</b>		<b>330</b>
<b>Cost of 11 kV Line per meter on S.T. Pole</b>		693614 x 0.001 = 693.614			<b>Say Rs.</b>		<b>690</b>





## ANNEXURE - 18

## Cost Analysis of 1 Kilometer 11 kV Underground Line / Cable

S.No	Particulars	Unit	Rate (Rs.)	11 kV 3×70 mm <sup>2</sup>		11 kV 3×120 mm <sup>2</sup>		11 kV 3×185 mm <sup>2</sup>	
				Qty.	Amt.(Rs.)	Qty.	Amt.(Rs.)	Qty.	Amt.(Rs.)
1	2	3	4			5	6	7	8
1	11 kV XLPE cable 3×70 mm <sup>2</sup>	km.	520000	1.10	572000				
2	11 kV XLPE cable 3×120 mm <sup>2</sup>	km.	654000			1.10	719400		
3	11 kV XLPE cable 3×185 mm <sup>2</sup>	km.	891000					1.10	980100
4	Cable jointing kit straight through 11 kV (EV) 70 mm <sup>2</sup>	No.	9622	2	19244				
5	Cable jointing kit straight through 11 kV (EV) 120 mm <sup>2</sup>	No.	9983			2	19966		
6	Cable jointing kit straight through 11 kV (EV) 185 mm <sup>2</sup>	No.	10166					2	20332
7	Cable jointing kit out door	No.	4770	2	9540	2	9540	2	9540
8	G.I. Pipe 6" dia	Metre.	1475	20	29500	20	29500	20	29500
	<b>Sub Total</b>				<b>630284</b>		<b>778406</b>		<b>1039472</b>
9	Cable laying charges along with cost of bricks & sand			L.S.	228206	L.S.	228206	L.S.	228206
	<b>Total</b>				<b>858490</b>		<b>1006612</b>		<b>1267678</b>
10	Road restoration charges for pucca road crossing	Km.	2236080	0.2	447216	0.2	447216	0.2	447216
11	Road restoration charges for footpath side	Km.	559020	0.8	447216	0.8	447216	0.8	447216
	<b>Grand Total</b>				<b>1752922</b>		<b>1901044</b>		<b>2162110</b>
Cost of underground 11 kV Line per meter with 3×70 mm <sup>2</sup> cable						1752922 x 0.001 = 1752.922		Say Rs.	1750
Cost of underground 11 kV Line per meter with 3×120 mm <sup>2</sup> cable						1901044 x 0.001 = 1901.044		Say Rs.	1900
Cost of underground 11 kV Line per meter with 3×185 mm <sup>2</sup> cable						2162110 x 0.001 = 2162.110		Say Rs.	2160





## ANNEXURE - 19

## Cost of material for single support on PCC Pole 9 Metre for 33 kV Line

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	PCC Pole 9.0 Metre.	No.	4671	1	4671
2	V-type cross arm	No.	992	1	992
3	Cross arm holding clamp with bolts & nuts	No.	364	1	364
4	F-bracket	No.	436	1	436
5	33 kV Pin Insulator	No.	488	3	1464
6	33 kV Pin with nut	No.	209	3	627
7	Armour Rod with Ferrule for Dog	Set	276	3	828
8	Stone Pad 300x300x75 mm	No.	140	1	140
9	Number plate	No.	391	1	391
10	Danger board with clamp	No.	461	1	461
11	Barbed Wire	Kg.	162	2	324
12	Bolt, Nut & washer	Kg.	196	1	196
13	Aluminium binding wire	Kg.	250	0.5	125
14	Earthing complete	No.	838	1	838
15	Concreting support	No.	856	1	856
	<b>Total</b>				<b>12713</b>
				<b>Say</b>	<b>12710</b>





## ANNEXURE - 20

**Cost of material for Sectional Double Pole Structure on PCC Pole 9 Metre for 33 kV Line**

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	PCC Pole 9 Metre.	No.	4671	2	9342
2	M.S. Angle Iron 65×65×6 mm bracing with 4 clamp	Set	3159	1	3159
3	Top Channel 125×65 mm, 3200 mm with clamp	No.	1592	1	1592
4	Stone Pad 300x300x75 mm	No.	140	2	280
5	11 kV Disc Insulators B&S type	No.	315	24	756
6	Disc Fittings Dog/Racoon	No.	237	6	1422
7	33 kV pin Insulator	No.	488	3	1464
8	33 kV pin with nut	No.	209	3	627
9	Earth clamp with bolt & nut	No.	336	1	336
10	PG Clamp for Dog	No.	257	12	3084
11	E Bracket	No.	421	3	1263
12	Number Plate	No.	132	1	132
13	Danger board with clamp	No.	461	1	461
14	Barbed wire	Kg.	162	4	648
15	Aluminium tape	Kg.	306	1	306
16	Bolt, Nut and washer	Kg.	196	3	588
17	Stay set Complete	No.	2027	8	16216
18	Concreting of support	No.	856	2	1712
19	Earthing complete	No.	838	2	1676
20	Concreting of stay	No.	379	8	3032
<b>Total</b>					<b>54900</b>
					<b>Say</b>
					<b>54900</b>





## ANNEXURE - 21

**Cost of material for Single Line support on ST / Joist Girder Pole 11 Metre. for 33 kV  
Line**

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	ST /Joist Girder Pole 11 Metre.	No.	15049	1	15049
2	V-type Cross Arm	No.	992	1	992
3	Packing piece and clamp for above with bolts & nuts	No.	842	1	842
4	F Bracket	No.	436	1	436
5	33 kV pin Insulator	No.	488	3	1464
6	33 kV pin with nut	No.	209	3	627
7	Earth wire clamp with bolt & nut	No.	336	1	336
8	Amour rod with ferules for Dog	Set	276	3	828
9	Stone Pad 300x300x75 mm	No.	140	1	140
10	Number Plate	No.	391	1	391
11	Danger board with clamp	No.	461	1	461
12	Barbed wire	Kg.	162	2	324
13	Bolt, Nut and washer	Kg.	196	1	163
14	Aluminium paint	Ltr.	319	1	319
15	Red Oxide paint	Ltr.	160	1	160
16	Aluminium binding wire	Kg.	250	0.5	125
17	Concreting of support	No.	856	1	856
18	Earthing complete	No.	838	1	838
	<b>Total</b>				<b>24351</b>
				<b>Say</b>	<b>24350</b>

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## ANNEXURE - 22

**Cost of material for Section Double Pole Structure on ST/Joist Girder Pole 11 Metre. for  
33 kV Line**

S.No	Particulars	Unit	Rate	Qty.	Amt. (Rs.)
1	2	3	4	5	6
1	ST /Joist Girder Pole 11 Metre.	No.	15049	2	30098
2	M.S. Angle Iron 65×65×6 mm bracing with 4 clamp	Set	3159	1	3159
3	Top Channel 125×65 mm, 3200 mm with clamp	No.	1592	1	1592
4	Stone Pad 300x300x75 mm	No.	140	2	280
5	11 kV Disc Insulators B&S type	No.	315	24	7560
6	Disc Fittings Dog/Racoon	No.	237	6	1422
7	33 kV pin Insulator	No.	488	3	1464
8	33 kV pin with nut	No.	209	3	627
9	Earth wire clamp with bolt & nut	No.	336	1	336
10	PG Clamp for Dog	No.	257	12	3084
11	F Bracket	No.	436	3	1308
12	Number Plate	No.	132	1	132
13	Danger board with clamp	No.	461	1	461
14	Barbed wire	Kg.	162	4	648
15	Aluminium tape	Kg.	250	1	250
16	Aluminium paint	Ltr.	319	2	638
17	Bolt, Nut and washer	Kg.	196	3	588
18	Red Oxide Paint	Ltr.	160	2	320
19	Stay set complete	No.	3066	8	24528
20	Concreting of support	No.	856	2	1712
21	Earthing complete	No.	838	2	1676
22	Concreting of stay	No.	379	8	3032
	<b>Total Cost</b>				<b>84915</b>
				<b>Say</b>	<b>84920</b>

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**ANNEXURE-23**

**Cost Analysis of One Kilometer of 33 kV Line with ACSR Dog Conductor on S.T / Joist Girder Pole and P.C.C. Pole**

S.No	Particulars	Unit	Rate (Rs.)	On ST/Joist Girder 11 Metre.		PCC Pole 9 Metre.	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8
1	Cost of single support as per Annexure - 19 & 21						
	ST/Joist Girder Pole 11 Metre.as per Annexure-21	No.	23360	14	327040		
	PCC Pole 9 Metre as per Annexure-19	No.	12710			16	203360
2	Extra Cost of section and heavy angle points on double pole as per Annexure - 20 & 22						
	ST/Joist Girder Pole 11 Metre.	No.	84920	1	84920		
	PCC Pole 9 Metre.	No.	54900			1	54900
3	Extra Cost of stay at right angle	No.	2027	4	8108	2	4054
4	ACSR Dog Conductor	Km.	79004	3.09	244122	3.09	244122
5	GS/GI Earthwire	Kg.	123	127	15621	127	15621
6	Aluminium jointing sleeves	No.	103	3	309	3	309
7	Earthing complete	No.	838	6	5028	6	5028
8	Extra Cost of Road/ Communication lines / 11 kV lines crossing	No.	11297	2	22594	2	22594
9	Tree cutting compensation	L.S.		L.S.	1098	L.S.	1098
	<b>Sub Total</b>				<b>708840</b>		<b>551086</b>
10	Labour & overhead charges	L.S.		L.S.	212652	L.S.	165326
	<b>Total</b>				<b>921492</b>		<b>716412</b>
<b>Cost of 33 kV Line per Meter on ST Pole</b>				921492 x 0.001 = 921.492		<b>Say Rs.</b>	<b>920</b>
<b>Cost of 33 kV Line per meter on P.C.C. Pole</b>				716411.8 x 0.001 = 716.412		<b>Say Rs.</b>	<b>720</b>

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## ANNEXURE-24

## Cost analysis of 1 Kilo meter 33 kV underground Line / Cable

S.No	Particulars	Unit	Rate (Rs.)	33 KV 3×120 mm <sup>2</sup>		33 KV 3×300 mm <sup>2</sup>		33 KV 3×400 mm <sup>2</sup>	
				Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)	Qty.	Amt. (Rs.)
1	2	3	4	5	6	7	8	7	8
1	33 KV XLPE cable 3×120 mm <sup>2</sup>	km.	1173000	1.10	1290300				
2	33 KV XLPE cable 3×300 mm <sup>2</sup>	km.	1599000			1.1	1758900		0
3	33 KV XLPE cable 3×400 mm <sup>2</sup>	km.	2398000					1.1	2637800
4	Cable jointing kit straight through	No.	46585	2	93170	2	93170	2	93170
5	Cable jointing kit out door	No.	21542	2	43084	2	43084	2	43084
6	G.I. Pipe 6" dia	Metre.	1475	20	29500	20	29500	20	29500
	<b>Sub Total</b>				<b>1456054</b>		<b>1924654</b>		<b>2803554</b>
7	Labour charges with laying materials			L.S.	436816.2	L.S.	577396	L.S.	841066
	<b>Total</b>				<b>1892870.2</b>		<b>2502050</b>		<b>3644620</b>
8	Road restoration charges for pucca road crossing	Km.	2459688	0.2	491937.6	0.2	491938	0.2	491938
9	Road restoration charges for footpath side	Km.	614922	0.8	491937.6	0.8	491938	0.8	491938
	<b>Grand Total</b>				<b>2876745.4</b>		<b>3485925</b>		<b>4628496</b>
Cost of underground 33 KV Line per meter with 3×120 mm <sup>2</sup> cable				2876745 x 0.001 = 2876.745				Say Rs.	2880
Cost of underground 33 KV Line per meter with 3×300 mm <sup>2</sup> cable				3485925 x 0.001 = 3485.925				Say Rs.	3490
Cost of underground 33 KV Line per meter with 3×400 mm <sup>2</sup> cable				4628496 x 0.001 = 4628.496				Say Rs.	4630





## ANNEXURE - 25

## 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 Metre.	No.	2721	2	5442
2	Stone Pad 300x300x75 mm	No.	140	2	280
3	Top channel	No.	832	1	832
4	Dropper channel	No.	748	1	748
5	M.S. Angle 75x75x6x2028 mm	No.	1778	2	3556
6	M.S. T- off Channel	No.	478	1	478
7	Clamps with bolt & nut	No.	259	11	2849
8	11 kV disc Insulator	No.	167	3	501
9	11 kV disc fitting	No.	97	3	291
10	11 kV pin Insulator	No.	51	3	153
11	11 kV pin	No.	72	3	216
12	Transformer 25 kVA	No.	56780	1	56780
13	11 kV T.P.M.O.	Set	18292	1	18292
14	Danger board with clamp	No.	461	1	461
15	Stay set Complete	No.	2027	1	2027
16	Earthing Complete	No.	838	2	1676
17	Concreting of Stay	No.	379	2	758
18	Concreting of support	No.	856	2	1712
	<b>Total</b>				<b>97052</b>
19	Labour & Overhead Charges			L.S.	29116
	<b>Grand Total</b>				<b>126168</b>





## Cost of prepaid meter

S.No	Particulars	Unit	Qty.	Rate (Rs.)
1	2	3	4	5
1	Single phase prepaid meter	No.	1	6016
2	Three phase prepaid meter	No.	1	11341

**Note:**

1. Token charges (extra) for code generation for prepaid meter = Rs. 10 per token.
2. The prepaid meters are the whole current meters as per IS 15884 so they are only available for connection up to 45 kW. No prepaid meters are available for connections above 45 kW. If the consumer wishes to install prepaid meter on connections above 45 kW, he shall arrange the meter as per IS 15884 himself within 2 months and this meter shall be tested by the Discom as per the provisions of Electricity Supply Code before installations if he is unable to provide such meter within 2 month he is liable to deposit the requisite security/additional security.
3. In case of juggi jopadi and Patri Dukandars the consumer can pay the cost of prepaid meter in installments in either of the methods as mentioned below.
  - a) Rs. 150 per month for 60 months.
  - b) On initial payment of Rs. 1000 at the time of the Connection and rest on the payment of Rs. 125 per month for 60 months.
4. "In case consumer other than juggi jopadi and Patri Dukandars wishes to pay the Cost of prepaid meters (Single Phase/ Three Phase) in instalments, the Licensee shall charge the cost of prepaid meters in 12 equal instalments with carry over charges @ 12.50%."





## ANNEXURE - 27

## Rate of 11 KV Ring Main Unit

S.No	Particulars	Unit	Qty.	Rate (Rs.)
1	2	3	4	5
1	Load up to 200 KVA	No	1	393250
2	Load above 200 KVA and up to 1000 KVA	No	1	453250
3	Load above 1000 KVA and up to 3000 KVA	No	1	513250

Note: If the load is within the band as specified in the above S.No 1,2 and 3, No additional cost of RMU shall be charged, if the load is increased to the next higher band then the differential cost shall be paid by consumer.

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## Cost of Transformers to be charged by the Licensee

S.No	Capacity	Oil Field Type Transformer (Rs.)
1	2	3
1	16 KVA Single Phase Transformer	35354
2	25 KVA Aluminium Wound Transformer	56780
3	63 KVA Aluminium Wound Transformer	104596
4	100 KVA Aluminium Wound Transformer	136710
5	250 KVA Copper Wound Transformer	393067
6	400 KVA Copper Wound Transformer	619236
7	630 KVA Copper Wound Transformer	964785
<b>All transformers shall be of level-2 category</b>		

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ANNEXURE – 28 A

Cost of Dry Type (Cast Resin) Transformers to be charged by the Licensee.  
In case T/F is installed by the licensee at the consumer premises.

S.No	Capacity	Cost (Rs.)
1	2	3
1	250 KVA Copper Wound Transformer	730000
2	400 KVA Copper Wound Transformer	940000
3	630 KVA Copper Wound Transformer	1250000

All transformers shall be of level 2 category

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## Cost analysis of Fencing / Plinth / Cable Trench

S.No	Particulars	Unit	Rate (Rs.)
1	2	3	4
1	M S Strip (50x6 mm) Fencing (6 feet height including civil work)	mm <sup>2</sup>	2450
2	FRP Fencing (6 feet height including civil work)	mm <sup>2</sup>	2400
3	Plinth of Transformer	mm <sup>3</sup>	4600
4	Cable Trench	mm <sup>3</sup>	1200
5	Interlocking tiles inside Transformer Fencing	mm <sup>2</sup>	1200

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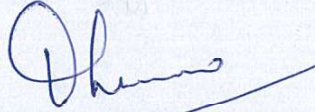


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## Cost of Net Meter

S.No	Particulars	Unit	Qty.	Rate (Rs.)
1	Single Phase	No.	1	1700
2	Three Phase	No.	1	3800
3	LT TVM	No.	1	5800
4	11 KV	No.	1	11000



(Kaushal Kishore Sharma)

Member



Date: 03.07.2019



(Raj Pratap Singh)

Chairman