



**PUNJAB STATE POWER CORPORATION LTD.**

(Regd. Office: PSEB Head Office, The Mall, Patiala)

**OFFICE OF CE/COMMERCIAL (SE/SALES-II)**

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Website: www.pspcl.in, CIN: U40109PB2010SGC033813, Registration Number: 33813

**Commercial Circular No. 51/2024**

To

1. All EIC/CE (DS),  
Under PSPCL.
2. CE/IT,  
PSPCL, Patiala.

Memo No. 278-283/SCD/23-24

Dated: 31-12-2024

**Subject: PSERC (Electricity Supply Code & Related Matters)  
Regulation, 2014 – Standard Cost Data.**

Hon'ble PSERC has revised the Standard Cost Data vide its detailed Order dated 31.12.2024 passed in Petition No. 40 of 2024 (Order is available at Hon'ble PSERC's website).

1. To ensure recovery of expenditure from the consumers/applicants of various load slabs, the Commission has approved the per kW/kVA service connection charges for different categories of consumers covered under Regulation 32 and 33 of Supply Code, 2024 as per Annexure-1.
2. The per kVA charges to be recovered from applicants/consumers for demand exceeding 100 kVA but not exceeding 150 kVA shall be as per Annexure-2.
3. For ease of doing business and for calculating the cost of common portion of the line in case of release/extension in demand of 11kV/66kV connections, the commission has approved normative cost in the cost data for the same.
- 4 (a) The cost per kVA per Ckt. KM for 11 kV lines and per kVA cost of outgoing 11kV breaker for calculating security (Works) and proportionate cost per kVA of 11 kV line to be recovered from applicants as per Regulation 9(2)(iv), 12(3), 32(1)(ii)(a) and 33(1)(ii) etc. of the Supply Code, 2024 and further normative cost of 11 kV for connectivity to colonies as per Regulation 12(4) of Supply Code-2024, shall be as per Annexure-3, 4 & 5 respectively.

4 (b) The per kVA per KM cost of 66 kV transmission lines are as per Annexure-6, 7 & 8. The proportionate cost per kVA of 66 kV lines on normative basis to be recovered from the applicants as per Regulation 9(2)(iv), 25, 32(1)(ii)(b) and 33(1)(ii) etc. of Supply Code – 2024 are as per Annexure-9.

4 (c) The per Ckt. KM and per MVA cost of 132 kV/220 kV transmission lines and proportionate cost on normative basis as per Regulation 9(2)(iv), 25, 32(1)(ii)(c) and 33(1)(ii) of Supply Code, 2024 and cost of bays are as per Annexure-10, 11 & 12 respectively.

5. The system loading charges per kVA are as per Annexure-13.

6. The Standard Cost Data approved by the Hon'ble PSERC shall be applicable w.e.f. 01.01.2025 and shall remain force upto 31.12.2027 with the annual compounded rate of increase as 6%. The first increase being applicable w.e.f. 01.01.2026 on the Standard Cost Data approved by the Hon'ble PSERC vide order dated 31.12.2024.

7. The above approved Standard Cost Data shall be applicable for all the application received for release of new load/demand including extension in load/demand received on or after 01.01.2025.

8. Further the Standard Cost Data approved by the Hon'ble PSERC vide interim order dated 14.11.2024 is hereby superseded. Any consequential refund or recovery, as the case may be on account of interim order dated 14.11.2024 be affected within a month of this order (31.12.2024).

It should be ensured by the field offices that the methodology and the various charges approved by the Hon'ble PSERC in the cost data are strictly followed while working out expenditures to be recovered from the applicants/consumers.

The meticulous compliance of these instructions be ensured.

This circular can be downloaded from the PSPCL website ([www.pspcl.in](http://www.pspcl.in)).

This issues with the approval of Competent Authority.

DA/As above.

Dy. CE/Sales-2,  
O/o EIC/Commercial,  
PSPCL, Patiala.

31/12/24

1. ਪ੍ਰਿੰਸੀਪਲ ਸਕੱਤਰ/ਵਾਇਸ ਚਾਂਸਲਰ ਪੰਜਾਬ ਐਕਸ-ਆਫਿਸ ਮੈਂਬਰ, ਪੰਜਾਬ ਰਾਜ ਪਾਵਰ ਕਾਰਪੋਰੇਸ਼ਨ ਲਿਮਟਿਡ, ਚੰਡੀਗੜ੍ਹ।
2. ਪ੍ਰਮੁੱਖ ਸਕੱਤਰ/ਬਿਜਲੀ ਵਿਭਾਗ, ਪੰਜਾਬ ਸਰਕਾਰ, ਚੰਡੀਗੜ੍ਹ।
3. ਸਕੱਤਰ, ਪੰਜਾਬ ਸਰਕਾਰ/ਇੰਡ: ਅਤੇ ਕਮਰਸ ਵਿਭਾਗ, ਪੰਜਾਬ ਸਰਕਾਰ, ਚੰਡੀਗੜ੍ਹ।
4. ਪ੍ਰੋਜੈਕਟ, ਸਟੇਟ ਡਿਸਟ੍ਰਿਬਿਊਟ ਹਿਡਰੋਲ ਕਮਿਸ਼ਨ (ਪੰਜਾਬ), ਐਸ.ਸੀ.ਓ. ਨੰ. 3009-10, ਸੈਕਟਰ-22, ਚੰਡੀਗੜ੍ਹ।
5. ਸਕੱਤਰ/ਪੰਜਾਬ ਰਾਜ ਬਿਜਲੀ ਰੈਗੂਲੇਟਰੀ ਕਮਿਸ਼ਨ, ਸਾਈਟ ਨੰ. 3, ਮਧਿਆ ਮਾਰਗ, ਸੈਕਟਰ-18 ਏ, ਚੰਡੀਗੜ੍ਹ।
6. ਓਮਬਡਸਮੈਨ, ਇਲੈਕਟ੍ਰਿਸਿਟੀ ਪੰਜਾਬ 66ਕੇਵੀ ਗਰਿਡ ਸਬ-ਸਟੇਸ਼ਨ, ਪਲਾਟ ਨੰ. ਏ-2, ਇੰਡਸਟਰੀਅਲ ਏਰੀਆ, ਫੇਜ਼-1, ਐਸਏਐਸ ਨਗਰ (ਮੋਹਾਲੀ) 160055.
7. ਪ੍ਰਬੰਧਕੀ ਨਿਰਦੇਸ਼ਕ/ਪੰਜਾਬ ਬੁਨਿਆਦੀ ਢਾਂਚਾ ਵਿਕਾਸ ਬੋਰਡ, ਚੰਡੀਗੜ੍ਹ।
8. ਨਿੱਜੀ ਸਕੱਤਰ ਟੂ ਬਿਜਲੀ ਮੰਤਰੀ, ਪੰਜਾਬ ਸਿਵਲ ਸਕੱਤਰੇਤ, ਪੰਜਾਬ ਸਰਕਾਰ, ਚੰਡੀਗੜ੍ਹ।
9. ਚੀਫ ਕੋ-ਆਰਡੀਨੇਟਰ, ਉਦਯੋਗ ਸਹਾਇਕ ਡਾਇਰੈਕਟਰ ਆਫ ਇੰਡਸਟ੍ਰੀਜ਼, ਪੰਜਾਬ, ਸੈਕਟਰ-17, ਚੰਡੀਗੜ੍ਹ।
10. ਪ੍ਰਮੁੱਖ ਸਕੱਤਰ, ਸਥਾਨਕ ਸਰਕਾਰ ਵਿਭਾਗ, (ਸਥਾਨਕ ਸਰਕਾਰ-3 ਸ਼ਾਖਾ), ਪੰਜਾਬ ਸਰਕਾਰ, ਸੈਕਟਰ 17, ਚੰਡੀਗੜ੍ਹ।
11. ਨਿਗਰਾਨ ਇੰਜੀਨੀਅਰ/ਸੰਚਾਲਣ ਹਲਕਾ, ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਬੰਠਿਡਾ।

ਵਧੀਕ ਨਿਗ ਇੰਜੀ: /ਵਿਕਰੀ-5,  
ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।

ਸੀਸੀ:

The following may download the Circular from PSPCL website ([www.pspcl.in](http://www.pspcl.in))

- 1) ਪੀ.ਐਸ. ਟੂ ਚੇਅਰਮੈਨ-ਕਮ-ਮੈਨੇਜਿੰਗ ਡਾਇਰੈਕਟਰ, ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।
- 2) ਸਾਰੇ ਨਿਰਦੇਸ਼ਕ, ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।
- 3) ਮੁੱਖ ਇੰਜੀਨੀਅਰ/ਚੇਅਰਮੈਨ (ਫੋਰਮ), ਪੀ-1, ਵਾਈਟ ਹਾਊਸ, ਰਾਜਪੁਰਾ ਕਲੋਨੀ, ਪਟਿਆਲਾ।
- 4) ਚੀਫ ਐਡਮਿਨਸਟਰੇਟਰ ਅਤੇ ਆਈਆਰ, ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।
- 5) ਪ੍ਰਮੁੱਖ ਇੰਜੀਨੀਅਰ/ਆਈਟੀ, ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।
- 6) ਮੁੱਖ ਬਿਜਲੀ ਇੰਸਪੈਕਟਰ, ਪੰਜਾਬ ਸਰਕਾਰ, ਪਟਿਆਲਾ।
- 7) ਵਿੱਤ ਸਲਾਹਕਾਰ, ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।
- 8) ਮੁੱਖ ਆਡੀਟਰ, ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।
- 9) ਮੁੱਖ ਇੰਜੀਨੀਅਰ/ਏ.ਆਰ.ਆਰ. ਤੇ ਟੀ.ਆਰ., ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।
- 10) ਪ੍ਰਮੁੱਖ ਇੰਜੀਨੀਅਰ/ਪੀ.ਪੀ. ਅਤੇ ਆਰ., ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।
- 11) ਨਿਗਰਾਨ ਇੰਜ: /ਆਈ.ਟੀ., ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ ਨੂੰ ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ. ਦੀ ਵੈਬਸਾਈਟ ਤੇ ਅਪਲੋਡ ਕਰਨ ਹਿੱਤ।
- 12) ਉਪ ਮੁੱਖ ਇੰਜ: /ਸੇਲਜ਼-1 ਅਤੇ ਨਿਗਰਾਨ ਇੰਜ: /ਰੈਗੂਲੇਸ਼ਨ, ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।
- 13) ਸਾਰੇ ਵਧੀਕ ਨਿਗ.ਇੰਜ: /ਸੀਨ:ਕਾ:ਕਾ:ਇੰਜ: /ਸਹਾ:ਕਾ:ਕਾ: ਇੰਜ: /ਅਧੀਨ ਵਣਜ ਸੰਸਥਾ।

ਵਧੀਕ ਨਿਗ ਇੰਜੀ: /ਵਿਕਰੀ-5,  
ਪੀ.ਐਸ.ਪੀ.ਸੀ.ਐਲ., ਪਟਿਆਲਾ।

Service Connection Charges recoverable from applicants/consumers as per Regulation 32 and 33 of Supply Code 2024 Annexure 1				
Sr. No	Consumer Category	Load/Demand (kW/kVA)	Fixed kW/kVA Charges proposed by PSPCL(Rs.)	Fixed kW/kVA Charges approved (Rs.)
1	2	3	4	5
1	Domestic Supply (DS)	a) upto 2 kW	1200/kW	550/kW
		b) Above 2 kW & upto 7 kW	1820/kW	1250/kW
		c) Above 7 kW & upto 20 kW	2300/kW	1900/kW
		d) Above 20 kW & upto 50 kVA		2100/kVA
		f) Above 50 kVA & upto 100 kVA	6110/kVA	
		g) Above 100 kVA & upto 150 kVA	1656/kVA	1400/kVA
		e) Above 150 kVA	Actual as per Reg. 32 & 33	
2	Non-Residential Supply (NRS)	a) upto 7 kW	1840/kW	1250/kW
		b) Above 7 kW & upto 20 kW	2530/kW	2000/kW
		c) Above 20 kW & upto 50 kVA	2700/kVA	2300/kVA
		d) Above 50 kVA & upto 100 kVA		
		e) Above 100 kVA & upto 150 kVA	1656/kVA	1400/kVA
		f) Above 150 kVA	Actual as per Reg. 32 & 33	
3	Small Industrial Power (SP) /Compost Plants. CPPs,NRSE,IPPs covered under Reg. 32(4) & 33(4)	Upto 20 kW/kVA	6990/kVA	3250/kVA
4	Medium Industrial Supply (MS) /Compost Plants. CPPs,NRSE,IPPs covered under Reg. 32(4) & 33(4)	Above 20 kVA & upto 100 kVA	5060/kVA	3250/kVA
5	Large Industrial Supply (LS)/Compost Plants. CPPs,NRSE,IPPs covered under Reg. Reg. 32(4) & 33(4)	exceeding 100 kVA up to 150 kVA	1656/kVA	1400/kVA
		above 150 kVA	Actual as per Reg. 32 & 33	
6	AP (High Technology)Supply/ High Density Farming	upto 100 kW	5856/kW	5400/kW
		above 100 kW & upto 150 kW	1725/kW	1500/kW
		Above 150 kW	Actual as per Reg. 32 & 33	
7	Railway Traction	Actual as per Reg. 32 & 33 of Supply Code 2024		
8	Agricultural Pumping Supply (AP)		6954/BHP	6200/BHP
9	Public Lighting Supply (SL)	Where SL system in the area is set up and maintained by the owner.	2562/kW	2300/kW
10	Bulk Supply (BS)	i) Upto 100 kVA	2562/kVA	2300/kVA
		ii) above 100 kVA & upto 150 kVA	1656/kVA	1400/kVA
		ii)Above 150 kVA	Actual as per Reg. 32 & 33	
NOTE: (1) In case the length of service line of a domestic connection outside village Phirni is beyond the limit of 500 meters then as per Reg. 32(1)(i) or 33(1)(i), variable charges @ Rs. 370 per meter beyond the length of 500 meter shall also be recoverable from the consumer in addition to Fixed charges.				
NOTE: (2) In case of AP connection, if total length of service line is more than 500 meters then as specified in Regulation 32(2) & 33(2) of the Supply Code, 2024. the variable charges @ Rs. 315 per meter beyond the length of 500 meters shall also be recoverable along with fixed charges.				

Approved Service Connection Charges for demand exceeding 100 kVA but not exceeding 150 kVA as per Regulation 32(1)(i) & 33(1)(i) of Supply Code,2024		
Sr. No.	Description of Cost	Amount in Rs.
<b>A</b>	<b>Cost of Common Portion</b>	
1	Per KVA per Ckt. Km cost of 11 KV line ACSR 50 mm <sup>2</sup>	208.962
2	Per KVA per Ckt. Km cost of 11 KV line ACSR 80 mm <sup>2</sup>	214.694
3	Per KVA per Ckt. Km cost of 11 KV line ACSR 100 mm <sup>2</sup>	181.696
4	Per KVA per Ckt. Km cost of 11 KV line Cable 150 mm <sup>2</sup>	296.988
5	Per KVA per Ckt. Km cost of 11 KV line Cable 300 mm <sup>2</sup>	294.584
<b>A</b>	<b>Average per KVA cost (taking conductor length of line as 4 KM &amp; cable as 1 KM)</b>	<b>1102.92</b>
<b>B</b>	<b>Per KVA cost of 11 KV breaker</b>	<b>123.66</b>
<b>C</b>	<b>Cost of 11 kV Service Cable at Consumer end</b>	
1	Rate of 11 kV 35 mm <sup>2</sup> Cable per KM	470800.00
2	Rate of 30 mtr. Consumer cable	14124.00
3	Cost of 2 No. Cable end box 150 mm <sup>2</sup>	1596.00
4	Total cost of Material	<b>15720.00</b>
5	Contingency, Storage other Charges @5%	<b>786</b>
6	G.Total Cost of Material (4+5)	<b>16506.00</b>
<b>D</b>	<b>Detail of Labour Charges</b>	
1	2 No. Cable end box 35 mm <sup>2</sup>	23.52
2	Add 5300 % premium	1246.56
3	E/o 11 KV XLPE Cables (labour Rates as per committee approval) of 30 mtr	1205.37
4	G Total Cost of Labour Charges (1+2+3)	2475.45
<b>E</b>	<b>Net Total Cost (C6+D4)</b>	<b>18981.45</b>
<b>F</b>	<b>Establishment Charges@16%</b>	<b>3037.03</b>
<b>G</b>	<b>Grand Total Cost (E+F)</b>	<b>22018.48</b>
<b>H</b>	<b>Per KVA cost of Service line (considering average demand of 125 kVA)</b>	<b>176.15</b>
<b>I</b>	<b>Normative cost of 11 KV (A+B+H)</b>	<b>1402.73</b>
		<b>Say 1400 per kVA</b>

## PER KVA PER CKT KM COST OF 11 KV LINES &amp; PER KVA COST OF OUT GOING 11 KV BREAKER (IN RS.) for calculating Security (works)

Sr. No.	Description	Cost of Material	Other charges including storage, transportation, contingency T&P @5%	Labour Charges as per PSPCL Labour Schedules	Total without Establishment charges	Establishment Charges @16% of 8	Total charges per Ckt KM of Line	Capacity of line / breaker in KVA	Per KVA per Ckt KM cost	Reference
1	2	3	4	7	8	9	10	11	12	13
1	30 sq.Mm ACSR Conductor	322130.57	16106.53	47303.49	385540.59	61686.49	447227.08	1905	235	A1
2	50 sq.Mm ACSR Conductor	434980.27	21749.01	51083.48	507812.77	81250.04	589062.81	2819	209	A2
3	80 sq.Mm ACSR Conductor	606835.30	30341.77	57430.62	694607.69	111137.23	805744.91	3753	215	A3
4	100 sq.Mm ACSR Conductor	661704.08	33085.20	63163.80	757953.08	121272.49	879225.58	4839	182	A4
5	XLPE Cable 35 sq. mm on 9M Pole	741894.78	37094.74	75577.86	854567.38	136730.78	991298.16	2381	416	A5
6	XLPE Cable 150 sq. mm on 9M Pole	1282609.13	64130.46	92115.36	1438854.95	230216.79	1669071.74	5620	297	A6
7	XLPE Cable 300 sq. mm on 9M Pole	1985729.07	99286.45	92115.36	2177130.88	348340.94	2525471.82	8573	295	A7
8	XLPE Cable 35 sq. mm on 11M Pole	940676.77	47033.84	92412.36	1080122.97	172819.67	1252942.64	2381	526	A8
9	XLPE Cable 150 sq. mm on 11M Pole	1481609.45	74080.47	108949.86	1664639.78	266342.37	1930982.15	5620	344	A9
10	XLPE Cable 300 sq. mm on 11M Pole	2184729.39	109236.47	108949.86	2402915.72	384466.52	2787382.23	8573	325	A10
11	Cost of 11 KV Outgoing Breaker	497510.64	24875.53	10721.25	533107.42	85297.19	618404.61	5000	124	A11

Approved Proportionate Cost per kVA of 11 KV line to be recovered from applicants as per Regulation 9(2)(iv), 12(3), 32(1)(ii)(a) and 33(1)(ii) etc. of the Supply Code, 2024.		
Sr. No.	Description of Cost	Amount in Rs.
<b>1</b>	<b>Cost of Common Portion</b>	
1.1	Per KVA per Ckt. Km cost of 11 KV line ACSR 50 mm <sup>2</sup>	208.962
1.2	Per KVA per Ckt. Km cost of 11 KV line ACSR 80 mm <sup>2</sup>	214.694
1.3	Per KVA per Ckt. Km cost of 11 KV line ACSR 100 mm <sup>2</sup>	181.696
1.4	Per KVA per Ckt. Km cost of 11 KV line Cable 150 mm <sup>2</sup>	296.988
1.5	Per KVA per Ckt. Km cost of 11 KV line Cable 300 mm <sup>2</sup>	294.584
<b>1.6</b>	<b>Average per KVA cost (taking conductor length of line as 4 KM &amp; cable as 1 KM)</b>	<b>1102.92</b>
<b>2</b>	<b>Per KVA cost of 11 KV breaker</b>	<b>123.66</b>
<b>3</b>	<b>Normative per kVA cost of 11 kV line</b>	1226.58
	<b>Say</b>	<b>Rs. 1230/kVA</b>



## Annexure-5

Normative cost of 11 kV for connectivity to colonies as per Regulation 12(4) of Supply Code, 2024		
Sr No	Description of Cost	Amount in Rs.
A	<b>Cost of Common Portion</b>	
1	Per KVA per Ckt. Km cost of 11 KV line ACSR 50 mm <sup>2</sup>	208.962
2	Per KVA per Ckt. Km cost of 11 KV line ACSR 80 mm <sup>2</sup>	214.694
3	Per KVA per Ckt. Km cost of 11 KV line ACSR 100 mm <sup>2</sup>	181.696
4	Per KVA per Ckt. Km cost of 11 KV line Cable 150 mm <sup>2</sup>	296.988
5	Per KVA per Ckt. Km cost of 11 KV line Cable 300 mm <sup>2</sup>	294.584
A	<b>Average per KVA cost (taking conductor length of line as 4 KM &amp; cable as 1 KM)</b>	<b>1102.92</b>
B	<b>Per KVA cost of 11 KV breaker</b>	<b>123.66</b>
C	<b>Cost of 11 kV Service Cable</b>	
1	Rate of 11 kV 150 mm <sup>2</sup> Cable per KM	981178.00
2	Rate of 300 mtr. cable	294353.40
3	Cost of 2 No. Cable end box 150 mm <sup>2</sup>	1596.00
4	Total cost of Material	<b>295949.40</b>
5	Contingency & Storage Charges @5%	<b>14797.47</b>
6	G.Total Cost of Material (4+5)	<b>310746.87</b>
D	<b>Detail of Labour Charges</b>	
1	2 No. Cable end box 150 mm <sup>2</sup>	23.52
2	Add 5300 % premium	1246.56
3	E/o 11 KV XLPE Cables (labour Rates as per committee approval) of 300 mtr	17015.40
4	G Total Cost of Labour Charges (1+2+3)	18285.48
E	Net Total Cost (C6+D4))	329032.35
F	Establishment Charges@16%	52645.18
G	Grand Total Cost (E+F)	381677.53
H	<b>Per KVA cost of Service line (considering average demand of 1200 kVA)</b>	<b>318.06</b>
I	<b>Normative cost of 11 KV (A+B+H)</b>	<b>1544.65</b>
	<b>Say</b>	<b>1545</b>



## Annexure-6

Cost data of 66KV Transmission Lines (ACSR Conductor and XLPE Cables)												
Sr. No.	Description	Size of ACSR conductor /U/G cable (in mm <sup>2</sup> )	Material Cost (in lacs)	Labour charges including contingency & storage @20% of (4) (in lacs)	Transportation charges @2.5% of (4) (in lacs)	Other charges (preliminary+ forest clearance+ PTCC& re engineering + Land under tower+ Crop Compensaion) (in lacs)	Total Cost without Establishment charges (in lacs)	Establishment Charges @16% of (8) (in lacs)	Total cost per ckt KM of line (8+9) (in lacs)	Capacity of line in MVA	per ckt. KM /per kVA cost (in Rs.)	Reference Annexure
1	2	3	4	5	6	7	8	9	10	11	12	13
1	SC on SC Towers	200 mm <sup>2</sup>	19.52	3.91	0.49	1.83	25.75	4.12	29.87	43.50	<b>69</b>	B1
2	SC on DC Towers	200 mm <sup>2</sup>	22.37	4.48	0.56	1.83	29.24	4.68	33.92	43.50	<b>78</b>	B2
3	SC on DC Towers	420 mm <sup>2</sup>	41.46	8.3	1.04	1.83	52.63	8.43	61.06	64.50	<b>95</b>	B3
4	66 kV 240sqmm XLPE Copper conductor Al corrugated sheath single ckt U/G cable	240 mm <sup>2</sup>	198.71	57.52			256.23	41	297.23	43.50	<b>683</b>	B4
5	66 kV 630sqmm XLPE Copper conductor Al corrugated sheath single ckt U/G cable	630 mm <sup>2</sup>	381.45	46.13			427.58	68.42	496.00	64.50	<b>769</b>	B4
6	66 kV 1000 sq mm XLPE Copper conductor Al corrugated sheath single ckt U/G cable	1000 mm <sup>2</sup>	627.89	52.89			680.78	108.93	789.71	86.90	<b>909</b>	B4

**Note :** 1) In case the licensee erects a single circuit line on double circuit towers then as per Reg. 32(1)(ii)(e) of Supply Code,2024, charges only for single circuit line on single circuit towers shall be recoverable from the consumer which shall be 88 % of the cost of single circuit line on double circuit towers, if cost of single circuit line on single circuit towers is not determined in cost data.

2) The Railway charges shall be exclusive and chargeable on actual basis and same shall be mentioned in demand notice to consumer, if applicable.

3) In case of Underground cables, laying charges of cable against column no. 5, 6 & 7 are lumpsum because these works are being executed on turnkey basis.

4) The compensation charges for Land under the transmission line, Right of way shall be charged if actually paid.

5) Ckt. Km in case of cables include 4 No. single core cables which include 1 No. spare core.

## Annexure 7

[illegible]

## Annexure - 8

Cost data of 66KV Transmission Lines (Monopoles)											
Sr. No.	Description	Size of ACSR conductor (in mm <sup>2</sup> )	Cost of material of conductor and its accessories for Monopoles (in Lacs)	Cost of monopole including supply and erection (in lacs)	Other charges (preliminary+ forest clearance+ PTCC& re engineering + Land under tower+ Crop Compensaion) (in lacs)	Total Cost without Establishment charges (in lacs)	Establishment Charges @16% of (7) (in lacs)	Total cost per ckt KM of line (7+8) (in lacs)	Capacity of line in MVA	per ckt. KM /per kVA cost (in Rs.)	Reference Annexure
1	2	3	4	5	6	7	8	9	10	11	12
1	66kV SC on DC line on monopoles with 0.2 Sq" ACSR	200 mm <sup>2</sup>	143.27	7.65	1.76	152.68	24.43	177.11	43.50	<b>407</b>	D1
2	66kV SC on DC line on monopoles with 0.4 Sq" ACSR	420 mm <sup>2</sup>	210.67	18.75	1.76	231.18	36.99	268.17	64.50	<b>416</b>	D2
<b>Note :</b>	1) As per Reg. 32(1)(ii)(e) of Supply Code,2024, charges only for single circuit line on single circuit towers shall be recoverable from the consumer which shall be 88 % of the cost of single circuit line on double circuit										
	2) The Railway charges shall be exclusive and chargeable on actual basis and same shall be mentioned in demand notice to consumer.										
	3) The compensation charges for Land under the transmission line conductor, Right of way shall be exclusive charged (if actually paid).										

Approved Proportionate Cost per kVA of 66 KV lines to be recovered from applicants as per Regulation 9(2)(iv), 25, 32(1)(ii)(b) and 33(1)(ii) etc. of the Supply Code, 2024(Considering 97.79% ACSR, 1.01% HTLS, 1.12% cable and 0.08% on monopoles)		
Sr No	Description of Cost	Amount in Rs.
<b>A</b>	<b>Per KVA per KM cost of all conductors</b>	
1	Per KVA per Ckt. Km cost of SC on SC 66 KV line ACSR 0.2 sq inch	68.670
2	Per KVA per Ckt. Km cost of SC on DC 66 KV line ACSR 0.4 sq inch	94.670
3	Per KVA per Ckt. Km cost of SC on SC 66 KV line ACSR 0.2 sq inch (using 90 %)	NA
4	Per KVA per Ckt. Km cost of SC on SC 66 KV line ACSR 0.4 sq inch (using 90 %)	85.203
5	<b>Average of above per KVA per KM rate for ACSR (assuming equal length of line with Panther &amp; Zebra conductor)</b>	<b>76.937</b>
<b>B</b>	<b>Per KVA per KM cost of all cables</b>	
1	Per KVA per Ckt. Km cost of SC 66 KV XLPE 240 mm2 Copper conductor/400 mm2 Aluminium Conductor	683.290
2	Per KVA per Ckt. Km cost of SC 66 KV XLPE 630 mm2 Copper conductor/1000 mm2 Aluminium Conductor	769.000
3	Per KVA per Ckt. Km cost of SC 66 KV XLPE 1000 mm2 Copper conductor/2000 mm2 Aluminium Conductor	908.770
4	<b>Average of above per KVA per KM rate for cable assuming 76% having 240 mm2, 23% 630 mm2 and 1% 1000 mm2 cable</b>	<b>705.258</b>
<b>C</b>	<b>Per KVA per KM cost of all lines with HTLS conductor</b>	
1	Per KVA per Ckt. Km cost of SC on DC 66 KV line WITH HTLS 150 MM2	72.570
2	Per KVA per Ckt. Km cost of SC on DC 66 KV line WITH HTLS 200 MM2	72.910
3	Per KVA per Ckt. Km cost of SC on DC 66 KV line WITH HTLS 420 MM2	76.090
4	<b>Average of above per KVA per KM rate for HTLS COND (assuming equal length of each conductor)</b>	<b>73.857</b>
<b>D</b>	<b>Per KVA per KM cost of all lines on monopoles</b>	
1	Per KVA per Ckt. Km cost of SC on DC 66 KV line on Monololes 200 MM2	407.140
2	Per KVA per Ckt. Km cost of SC on DC 66 KV line on Monololes 420 MM2	415.770
3	<b>Average of above per KVA per KM rate for 66 kV line on monopoles (assuming equal length of each line)</b>	<b>411.455</b>
<b>E</b>	<b>Average per KVA per KM rate (Considering 97.79% ACSR, 1.01% HTLS, 1.12% cable and 0.08% on monopoles)</b>	<b>84.210</b>
<b>F</b>	<b>Average per KVA cost (taking length of line as 5 KM)</b>	<b>421.05</b>
<b>G</b>	<b>Per KVA cost of one 66 KV Bay at feeding substation and other common bay at in-between substation</b>	<b>155.040</b>
<b>H</b>	<b>Proportionate Cost per kVA of 66 KV lines to be recovered from applicants /consumers as per Regulation 9(2)(iv), 25, 32(1)(ii)(b) and 33(1)(ii) etc. of the Supply Code, 2024</b>	<b>576.09</b>
		<b>Say 576/-</b>

COST DATA- PER CKT. KM & PER MVA COST 132KV AND 220 KV TRANSMISSION LINES													
Sr No.	Description	Size of ACSR Conductor	Per Ckt. Km Cost of material (Rs.)	Transportation charges @ 2.5% (Rs.)	Erection Charges @ 20% including Contingency & storage (Rs.)	Total (Rs.)	Other Charges* (Rs.)	Total without establishment charges (Rs.)	Establishment Charges @16% (Rs.)	Per km charges (Rs. in lacs)	Capacity of line in MVA	Per MVA/Ckt KM cost ( in Rupees)	Reference
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	132 KV SC line on SC Tower	200 sq mm	1808223	45206	361645	2215073	438820	2653893	424623	<b>30.785</b>	86.94	<b>35410</b>	E1
3	220 KV SC line on DC Tower	420 sq mm	5385740	134644	1077148	6597532	588865	7186397	1149823	<b>83.362</b>	214.98	<b>38777</b>	E2
4	220 KV SC line on DC Tower	520 sq mm	6344210	158605	1268842	7771657	588865	8360522	1337684	<b>96.982</b>	233.92	<b>41459</b>	E3
NOTE		1) As per Reg. 32(1)(ii)(e) of Supply Code,2024, charges only for single circuit line on single circuit towers shall be recoverable from the consumer which shall be 88 % of the cost of single circuit line on double circuit											
		2) The "Other Charges" under Col. 8 include per KM expenses for measurement of earth resistivity, reconnaissance, cost of land under towers, crop compensation, forest clearance charges PTCC/re-engineering charges.											
		3) The Railway Crossing Charges and Compensation for private tree cutting shall be considered if payable by the licensee											

PROPORTIONATE COST OF 220 KV AND 132 KV LINE ON NORMATIVE BASIS AS PER REGULATION 9(2)(iv), 25, 32(1)(ii)(c ) and 33(1)(ii) of SUPPLY CODE, 2024				
	220 kV		132 kV	
Sr No	Description	Cost in Rs.	Description	Cost in Rs.
1	Average per Ckt. kM per MVA cost of 220 kV line	40118	Per Ckt. kM per MVA cost of 132 kV line	35410
2	Average length of 220 kV Line (KM)	10	Average length of 132 kV line (KM)	10
3	Average Per MVA cost of 220 kV line	401180	Average Per MVA cost of 132 kV line	354100
4	Per MVA cost of 220 kV bay	53800	Per MVA cost of 132 kV bay	68475
5	<b>PROPORTIONATE COST PER MVA OF 220 kV LINE</b>	454980	<b>PROPORTIONATE COST PER MVA OF 132 kV LINE</b>	422575
		<b>454,980</b>		<b>422,575</b>

## Annexure-12

COST DATA -66KV, 132KV AND 220 KV BAYS				
Sr. No.	Description of charges	220kV Bay	132 kV Bay	66 kV Bay
1	Cost of material (In Rs. Lac)	80.817	40.83	22.59
2	Add transportation, storage, T&P and labour charges @ 11% of material cost (In Rs. Lac)	8.89	4.49	2.48
3	Cost of civil works (In Rs. Lac)	10.00	6	4
4	Total without Establishment charges (In Rs. Lac)	99.71	51.32	29.07
5	Establishment charges @16% (in Rs. Lacs)	15.95	8.21	4.65
6	Total cost with Establishment Charges (In Rs. Lac)	115.66	59.53	33.72
7	Capacity of Bay in MVA	214.98	86.94	43.5
8	<b>Per MVA cost (in Rs.Lac)</b>	<b>0.53800</b>	<b>0.68475</b>	<b>0.77520</b>
9	<b>Per MVA cost (in Rs.)</b>	<b>53800</b>	<b>68475</b>	<b>77520</b>
10	Reference	G 1	G 2	G 3



### Calculation of System Loading Charges per kVA

#### (A) COST OF 66 KV GRID SUB-STATIONS

Sr. No	Description	Cost of material including Line bay(Rs. Lac)	Contingency & storage charges, transportation, T&P and erection charges @11% of (3) (Rs. Lac)	Total cost without Establishment Charges (Rs. Lac)	Establishment Charges @16% of (5) (Rs. Lac)	Total cost including establishment charges (Rs. Lac)	Cost of land & Building (Rs. Lac)	Total Cost (Rs. Lac)	Capacity of grid in MVA	Per kVA cost (In Rs.)	Reference
1	2	3	4	5	6	7	8	9	10	11	12
1	31.5 MVA 66/11 KV S/S	422.38	46.46	<b>468.840</b>	75.014	<b>543.854</b>	195	<b>738.854</b>	31.5	<b>2346</b>	F-1
2	20 MVA 66/11 KV S/S	352.343	38.758	<b>391.101</b>	62.576	<b>453.677</b>	195	<b>648.677</b>	20	<b>3243</b>	F-2
	Average per kVA cost of 66 kV grid substation									<b>2794</b>	

#### PER kVA NORMATIVE COST OF TRANSMISSION LINE INCLUDING BAY(S)

(B)	Per kVA cost with average 5 kms OF 66 kV line including bay(s)	<b>576</b>
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#### System Loading Charges

(C)	System Loading Charges (A+B) per kVA	<b>3370</b>
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Say

Rs.3370/kVA