

KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

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Office of the
Chief Engineer, Electricity,
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BANGALORE - 560 009.

No. CEE/T&P/SEE(T&P)/EE(P)/AEEP2/2018-19/ 8059-60

Date:

- 3 DEC 2018

CIRCULAR

Sub: Updating of S.R. of Major Works for the Month of **November-2018**.

Ref: 1. Corporate order No. B-35/2901/2002-03, dated 22.10.2003.

2. IEEMA circular No:51/PVC/CLAR/02 dated 12.06.2017.

3. IEEMA circular No:56/PVC/CLAR/02 dated 16-06-2017.

4. IEEMA circular No:59/DIV/INSU/05 dated 23-06-2017.

5. DGM(Tech), KPTCL circular No:B19/7625/86-87 dated 26-07-2017.

In accordance with the Corporate order under reference the updated rates of following materials for the Month of **November-2018** are indicated in the enclosed Annexure.

1. Power Transformers
2. Transmission line accessories.
3. Transmission line Towers.
4. ACSR Conductors.
5. Ground wire.
6. Battery Sets
7. Battery Chargers
8. Lightning Arrestor
9. Current Transformers
10. Capacitive Voltage Transformer
11. Voltage Transformers
12. 11KV UG Cables & Control Cables
13. Insulators
14. 11KV Switch Gears
15. Circuit Breakers
16. Transformer oil

M. Ramesh 3/12/18

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Copy to:

1. The Superintending Engineer, (IT & MIS), KPTCL, Bangalore with a request to arrange to upload in the KPTCL site .
2. AEE-P2
3. MF/OC.

KARNATAKA POWER TRANSMISSION CORPORATION LIMITED**ANNEXURE**

For the month

Nov-18

Sl. No.	Description	Unit	Updated prices in Lakh Rs
I Power Trasnformers			
1	167 MVA, 400/220/33 kV single phase interconnecting transformer	No.	610.29
2	150 MVA, 3 Ph 220/66/11 KV oil forced cooling complete with all fittings and accessories. OLTC, RTCC, FCC, first filling of oil and 10% spare oil in non-returnable drums	No	845.73
3	100 MVA, 220/66/11 KV Transformer complete with all accessories as in item No 2. Above	No	742.01
4	100 MVA, 220/110/11 KV Auto Transformer complete with all accessories as in item No 2. Above	No	482.37
5	31.5 MVA, 66/11 KV Transformer complete with all accessories as in item No 2. Above	No	260.83
6	16/20 MVA, 66/11 KV Transformer complete with all fittings and accessories, OLTC, RTCC first filling in oil and 10% spare oil	No	197.13
7	20 MVA, 110/33/11 KV Transformer complete with all accessories as in item No 6. Above	No	197.13
8	12.5 MVA, 66/11 KV Transformer complete with all accessories as in item No 6. Above	No	143.65
9	10 MVA, 110/33/11 KV Transformer complete with all accessories as in item No 6. Above	No	155.22
10	8 MVA, 66/11 KV Transformer complete with all accessories as in item No 6. Above	No	125.78

*M. Ramya 13/11/18***Chief Engineer, Electy.,
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Sl No.	Description of Materials	Unit	Updated rate in
			Lakh Rs. As on Nov-18
II. Transmission line Towers			
1	Fabrication, galvanising and supply of high tensile steel tower materials	M.T	1.47
2	Fabrication, galvanising and supply of mild steel tower materials	M.T	1.31
III ACSR Conductors			
1	Coyote ACSR	Kms.	1.080
2	Lynx ACSR	Kms.	1.536
3	Drake ACSR	Kms.	3.125
4	Moose ACSR	Kms.	4.696
5	AAAC MOOSE	Kms.	4.777
6	7/3.15 mm G.I. Wire for ground conductor	Kms.	0.771


V Hardware accessories for Conductor/ Groud wire

Sl. No.	Description	Unit	Updated rate as on Nov-18 in Rs.				
			Drake ACSR	Lynx ACSR	Coyote ACSR	Rabbit ACSR	Ground conductor
A	HARDWARE						
1	Single Tension Clamps with arching horns	Nos.	3593.46	1568.50	1435.14	1127.06	1292.13
2	Double Tension Clamps with arching horns	Nos.	6399.87	4465.07	4147.60	3691.14	-
3	Single Suspension Clamps with arching horns	Nos.	2244.75	1904.75	1761.98	1174.03	1362.08
4	Double Suspension Clamps with arching horns	Nos.	4260.32	3634.79	3593.46	3223.42	-
5	P.G. Clamps	Nos.	1236.02	741.99	514.69	180.33	421.80
6	M.S.C Joints	Nos.	1098.90	638.68	593.58	394.48	479.40
7	Pre-formed Armour Rods	Nos.	3197.12	1207.83	1035.02	835.92	-
8	Repair Sleeves	Nos.	845.29	565.42	287.41	210.39	323.04
9	Vibration Damper	Nos.	1474.57	969.28	815.25	875.35	-
10	Automatic Comealong clamp	Nos.	7566.39	7269.59	7269.59	7269.59	4363.99
11	Pad Clamps	Nos.	1074.47	1066.96	958.00	772.04	-

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Sl No.	Description of Materials	Unit	Updated rate in Rs. as on
			Nov-18
B	Hardware Clamps for station materials Bolted Type tension Clamp		
1	Twin Falcon ACSR conductor 120KN 20 mm	Nos.	4870.81
2	Twin Drake ACSR conductor 120KN 20 mm	Nos.	4190.82
3	Twin Moose ACSR conductor 120KN 20 mm	Nos.	4363.63
4	Twin Falcon ACSR conductor 90KN 16 mm	Nos.	3948.49
5	Single Falcon ACSR conductor 120KN 20 mm	Nos.	2565.96
6	Twin Drake ACSR conductor 90KN 16 mm	Nos.	3807.61
7	Single Falcon ACSR conductor 90KN 16mm	Nos.	2487.06
8	Single Drake ACSR Conductor 120KN 20 mm	Nos.	2404.41
9	Single Drake ACSR Conductor 70/90KN 16 mm	Nos.	2319.88
10	Single LYNX ACSR conductor 70/90KN 16mm	Nos.	1350.61
11	Single Coyote ACSR conductor 70/90KN 16 mm	Nos.	1267.96
12	Single Rabbit ACSR conductor 70/90KN 16 mm	Nos.	954.25
C	Wedged Clamps		
1	Single Tension clamp compression type Drake ACSR	Nos.	3651.70
D	Bolted Type suspension clamp		
1	Twin Falcon ACSR conductor 90KN 16 mm	Nos.	4498.87
2	Twin Moose ACSR conductor 90KN 16 mm	Nos.	4160.76
3	Twin Drake ACSR conductor 90KN 16 mm	Nos.	3929.71
4	Single Falcon ACSR conductor 90KN 16 mm	Nos.	1837.12
5	Single Drake ACSR conductor 70/90KN 16 mm	Nos.	1609.83
6	Single LYNX ACSR conductor 70/90KN 16 mm	Nos.	1205.96
7	Single coyote ACSR conductor 70/90KN 16 mm	Nos.	1093.26
8	Single Rabbit ACSR Conductor 70/90KN 16 mm	Nos.	875.35
E	Hardware Clamps for station materials		
1	Ground wire clamp 7/3.15mm 2 bolt	Nos.	1353.85


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Sl No.	Description of Materials	Unit	Updated rate in
			Rs. as on Nov-18
F	Post Insulator clamps		
1	Twin Falcon ACSR Conductor 127 mm 220kV	Nos.	1825.84
2	Twin Moose ACSR Conductor 127 mm 220KV	Nos.	1562.17
3	Twin Drake ACSR Conductor 127 mm 220/110/66KV	Nos.	1463.30
4	Single Falcon ACSR Conductor 220/110/66kv	Nos.	1053.81
5	Single Drake ACSR Conductor 127/76mm, 220/110/66/33KV	Nos.	965.52
6	Single Lynx ACSR Conductor 127/76mm, 110/66/33KV	Nos.	901.66
7	Single Coyote ACSR Conductor 127/76mm 66/33KV	Nos.	834.04
8	Single Rabbit ACSR Conductor 76mm, 33KV	Nos.	764.52
G	Spacer Clamp for ACSR Conductors		
1	Twin Falcon 220KV	Nos.	674.36
2	Twin Moose 220KV	Nos.	634.92
3	Twin Drake 220/110/66KV	Nos.	604.86
H	Power Connectors 'T' Clamps for ACSR Conductors		
1	Twin Falcon to Single Drake	Nos.	1850.08
2	Twin Moose to Single Drake	Nos.	1393.35
3	Twin Drake to Single Drake	Nos.	1193.54
4	Single Falcon to Single Drake	Nos.	751.09
5	Single Drake to Single Drake	Nos.	660.10
6	Single Drake to Single Lynx	Nos.	617.29
7	Single Drake to Single Coyote	Nos.	579.82
8	Single Lynx to Single Lynx	Nos.	487.05
9	Single Coyote to Single Drake	Nos.	579.82
10	Single Lynx to Single Drake	Nos.	617.29
11	Single Coyote to Single Drake	Nos.	462.08

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Sl. No.	Description	Unit	Updated rate in Rs as on
			Nov-18
C-type Wedge Connectors			
1	Rabbit to coyote ACSR conductor	Nos.	1255.98
2	Rabbit to Lynx ACSR conductor	Nos.	2046.33
3	Rabbit to Drake ACSR conductor	Nos.	3514.61
4	Coyote to coyote ACSR conductor	Nos.	1841.16
5	Coyote to Lynx ACSR conductor	Nos.	2249.71
6	Coyote to Drake ACSR conductor	Nos.	2576.19
7	Lynx to Lynx ACSR conductor	Nos.	2278.26
8	Lynx to Drake ACSR conductor	Nos.	2697.51
9	Drake to Drake ACSR conductor	Nos.	3459.31
10	Rabbit to 2 hole paddle ACSR conductor - 610A	Nos.	2139.11
11	Rabbit to 2 hole paddle ACSR conductor - 895A	Nos.	2324.64
12	Coyote to 2 hole paddle ACSR conductor - 610A	Nos.	2602.96
13	Coyote to 2 hole paddle ACSR conductor - 895A	Nos.	2975.83
14	Coyote to 2 hole paddle ACSR conductor - 1400A	Nos.	6806.22
15	Coyote to 4 hole paddle ACSR conductor - 610A	Nos.	2883.06
16	Coyote to 4 hole paddle ACSR conductor - 895A	Nos.	3088.22
17	Coyote to 4 hole paddle ACSR conductor - 1400A	Nos.	6602.85
18	Lynx to 2 hole paddle ACSR conductor - 610A	Nos.	3682.31
19	Lynx to 2 hole paddle ACSR conductor - 895A	Nos.	3682.31
20	Lynx to 2 hole paddle ACSR conductor - 1400A	Nos.	6973.92

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21	Lynx to 4 hole paddle ACSR conductor - 610A	Nos.	4185.42
22	Lynx to 4 hole paddle ACSR conductor - 895A	Nos.	4370.97
23	Lynx to 4 hole paddle ACSR conductor - 1400A	Nos.	6973.92
24	Drake to 2 hole paddle ACSR conductor - 610A	Nos.	6695.60
25	Drake to 2 hole paddle ACSR conductor - 895A	Nos.	6695.60
26	Drake to 2 hole paddle ACSR conductor - 1400A	Nos.	7419.94
27	Drake to 4 hole paddle ACSR conductor - 610A	Nos.	4649.29
28	Drake to 4 hole paddle ACSR conductor - 895A	Nos.	5486.01
29	Drake to 4 hole paddle ACSR conductor - 1400A	Nos.	7419.94
30	Rabbit to Rabbit ACSR conductor	Nos.	743.95
31	Drake to Moose ACSR conductor	Nos.	5300.47
32	Drake to Falcon ACSR conductor	Nos.	15808.63
33	Moose to Moose ACSR conductor	Nos.	5486.01
34	Moose to Falcon ACSR conductor	Nos.	16179.72
35	Falcon to Falcon ACSR conductor	Nos.	16367.05
36	Moose 2 hole paddle ACSR conductor & 2 hole paddle - 895A	Nos.	9764.21
37	Moose 2 hole paddle ACSR conductor & 2 hole paddle - 1400A	Nos.	9764.21
38	Moose 4 hole paddle ACSR conductor & 2 hole paddle - 895A	Nos.	9764.21
39	Moose 4 hole paddle ACSR conductor & 2 hole paddle - 1400A	Nos.	9764.21
40	Falcon 2 hole paddle ACSR conductor & 2 hole paddle - 1400A	Nos.	25294.52
41	Falcon 4 hole paddle ACSR conductor & 2 hole paddle - 1400A	Nos.	25294.52

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SI No.	Description of Materials	Unit	Updated rate in Rs. as on
			Nov-18
I	Power Connectors, Terminal connector clamps for ACSR Conductor		
1	Twin Drake	Nos.	1677.02
2	Single Drake	Nos.	1011.57
3	Single Lynx	Nos.	779.64
4	Single Coyote	Nos.	670.81
J	Power connectors expansion type terminal connectors suitable for aluminium pipes		
1	63 mm nominal diameter x 73.03 mm	Nos.	1800.13
2	50 mm nominal diameter x 60.03 mm	Nos.	1534.30
SI No.	Description of Materials	Unit	Updated rate in Lakh Rs. as on
			Nov-18
VI	Battery Sets (Tubular)		
1	48V, 200AH	Set	5.614
2	48V, 400 AH	Set	7.480
3	110V, 100AH	Set	3.733
4	220V, 300AH	Set	22.862
	PLANTE TYPE		
1	110V, 100AH	Set	4.440
2	220V. 300AH	Set	21.342
VII	Battery Charger		
1	48 V, 200AH	Set	5.555
2	Suitable for 400AH (100A)	Set	7.401
3	110V, 100AH with DCDB	Set	1.355
4	2 x 220V, 300AH with Accersories & DCDB	Set	6.984


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SI No.	Description of Materials	Unit	Updated rate in Lakh Rs. as on
			Nov-18
VIII Lightning Arrestors			
1	198 KV Metal Oxide type, with surge counter (Discharge Class -3)	Nos.	0.95
2	96 KV Heavy Duty Metal Oxide (Discharge Class -2 for (lines & Transformers)	Nos.	0.52
3	60KV, 10KA Normal Duty (Discharge Class - 2)	Nos.	0.30
4	30KV Normal Duty Metal Oxide (Discharge Class - 2)	Nos.	0.13
5	96KV Heavy Duty Metal Oxide (Discharge Class - 3 for Capacitor bank)	Nos.	0.56
6	60KV Normal Duty Metal Oxide (Discharge Class - 3)	Nos.	0.30
7	30KV Normal Duty Metal Oxide (Discharge Class - 3)	Nos.	0.11
8	390KV Metal Oxide type with surge counter(Discharge class-3)	Nos.	3.04
SI No.	Description of Materials	Unit	Updated rate in Rs. Lakhs as on
Nov-18			
IX Current Transformers			
1	220KV class -1200-800-600-400-300/1-1-1-1A	Nos.	2.98
2	110KV class - 600-400/1-1-1A (for 100MVA trans)	Nos.	1.60
3	110KV class - 200-100/1-1-1A	Nos.	1.12
4	110kv class - 300-150-75/1-1-1A	Nos.	#REF!
5	110KV class - 400-200/1-1-1A	Nos.	1.60
6	66 KV class - 1600-1000/1-1-1A(for 150 MVA Trans)	Nos.	1.73
7	66 KV class - 1000-800-600/1-1-1A(for 100 MVA Trans)	Nos.	1.73
8	66 KV class - 1000-800-400-100/1-1-1A	Nos.	#REF!
9	66kv class - 400-200/1-1-1A	Nos.	1.16
10	66KV class - 200-100/1-1-1A	Nos.	1.15
11	33kv class - 400-200/1-1-1A	Nos.	0.35
12	33KV class - 200-100/1-1-1A	Nos.	0.35
13	11kv NCTs 2000-1200/1A (for 31.5KA SWG)	Nos.	0.53
14	11kv NCTs 1200-800/1A (for 500MVA SWG)	Nos.	0.53
15	11kv NCTs 800-400/1A (for 350MVA SWG)	Nos.	0.53
16	11kv NCTs 600-300/1A (for PCVCBs)	Nos.	0.53

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Sl No.	Description of Materials	Unit	Updated rate in Rs. Lakhs as on
			Nov-18
X	Capacitive Voltage Transformers		
1	245KV CVT, 8800 PF, one phase CVT with 3 secondaries.	Nos.	4.06
2	245KV CVT, 4400 PF, one phase CVT with 3 secondaries.	Nos.	3.29
XI	Voltage Transformers		
1	220KV/ $\sqrt{3}$ /110V/ $\sqrt{3}$ /110V /- $\sqrt{3}$ - 110V/ $\sqrt{3}$	Nos.	2.61
2	110V/ $\sqrt{3}$ -/110V /- $\sqrt{3}$ - 110V/ $\sqrt{3}$ - 110V/ $\sqrt{3}$	Nos.	1.14
3	66KV/ $\sqrt{3}$ /110V/ $\sqrt{3}$ -110V /- $\sqrt{3}$ - 110V/ $\sqrt{3}$	Nos.	0.72
4	33KV/ $\sqrt{3}$ -/110V /- $\sqrt{3}$ - 110V/ $\sqrt{3}$	Nos.	0.41
5	11KV/110V - 110V	Nos.	0.35
XII	a) Power Cables - XLPE		
1	11KV UG Cable 3 core 400 sq.mm	Km	18.53
2	11KV UG Cable 3 core 240 sq.mm	Km	12.82
3	11KV UG Cable 3 core 95 sq.mm	Km	7.32
	b) 1.1KV LT Power Cables(Aluminium)		
1	1.1KV 4C X 25 Sq mm	Km	1.71
2	1.1KV 4C X 10 Sq mm	Km	#REF!
	c) Copper Control Cables		
1	2 Core 2.5 sq.mm	Km	0.85
2	4 Core 2.5 sq.mm	Km	1.28
3	10 Core 2.5 sq.mm	Km	2.47
4	14 Core 2.5 sq.mm	Km	3.76
5	19 Core 2.5 sq.mm	Km	4.88

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SI No	Description of Materials	Unit	Updated rate in Rs.
XIII	Insulators		
	Solid core insulators		
1	Solid Core Insulators 110 KV	Nos.	12296.64
2	Solid Core Insulators 220 KV	Nos.	27953.83
3	Solid Core Insulators 66 KV	Nos.	5543.72
4	Solid Core Insulators 33 KV	Nos.	3725.99
	Disc insulators		
1	Disc Insulator 70 KN	Nos.	492.28
2	Disc Insulator 90 KN	Nos.	563.44
3	Disc Insulator 120 KN	Nos.	672.34
4	Disc Insulator 160 KN	Nos.	980.89
	Solid core long rod insulators		
1	Solid Core long rod insulators 90KN	Nos.	5160.35
2	Solid Core long rod insulators 120KN	Nos.	21918.65
	Polymer Disc Insulators		
1	66KV	set	3284.84
2	110KV	set	4063.14
3	220 KV	set	8525.17

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Sl No.	Description of Materials	Unit	Updated rate in
			Rs. Lakhs as on Nov-18
XIV	11KV SWITCHGEAR		
	MCVCB		
I	11KV MCVCB,31.5KA,500MVA,2000A incomer 1600A feeder		
i	Incomer Panel	Nos	10.30
ii	Feeder Panel	Nos	8.49
iii	Bus coupler	Nos	9.22
iv	Feeder panel for capacitor bank	Nos	8.92
II	11KV MCVCB,25KA,500MVA,1600A incomer 1250A feeder		
i	Incomer Panel	Nos	7.81
ii	Feede panel	Nos	6.81
iii	Bus coupler	Nos	6.73
iv	Feeder panel for capacitor bank	Nos	7.22
III	11KV MCVCB,20KA,350MVA,1250A incomer 800A feeder		
i	Incomer Panel	Nos	7.66
ii	Feede panel		6.70
iii	Bus coupler		6.52
iv	Feeder panel for capacitor bank		7.09
	11 kV PCVCB,350MVA,20KA,1250A Incomer,800A feeder		
1	11KV, 350MVA, 1250A Incomer with 600-300A (upto 10MVA), 1200-800A (above 10MVA transformer) CTs	Nos	6.04
2	11KV, 350MVA, 800A outgoing with 200-100A CTs	Nos	4.76
3	11kV PCVCB,350MVA feeder panel for capacitor Bank	Nos	5.22
	Annunciator Panel		
1	1I/C+4F	Nos	1.12
2	1I/C+5F	Nos	1.45
3	2I/C+8F	Nos	2.01
4	1I/C+4F+1CB	Nos	1.33
5	1I/C+5F+1CB	Nos	1.64
6	2I/C+8F+2CB	Nos	2.42

7	2I/C+8F+1BC	Nos	2.19
8	2I/C+10F+1BC	Nos	2.42
9	2I/C+12F+1BC	Nos	2.64
10	2I/C+14F+1BC	Nos	2.85
11	2I/C+16F+1BC	Nos	3.27
XV	Circuit Breakers		
1	400 kV, SF6 Breaker	No.	45.10
2	220KV, SF6 Breaker	No.	20.20
3	110KV, SF6 Breaker	No.	7.06
4	66KV, SF6 Breaker	No.	6.73
5	33KV, SF6 Breaker	No.	4.30
	Description of Materials	Unit	Updated rate in Rs. as on
			Nov-18
XVI	TRANSFORMER OIL		
	EHV Grade Transformer oil in new steel barrel of 210 litre capacity	KL	117003.20

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