

# **KERALA STATE ELECTRICITY BOARD LTD.**

(Incorporated under the Indian Companies Act, 1956)

Office of the CIA, Vydyuthi Bhavanam, Pattom, Thiruvananthapuram.

Phone No.0471- 2514537 (Email - [cia@ksebnet.com](mailto:cia@ksebnet.com)) Fax: 0471-2448584.



No.CIA/WAD-II/TRASMN.COST DATA/2015-16

## **CERTIFICATE**

This is to certify that the list of Cost Data for the first half year-2015-16, which contains 162 items of transmission materials, forwarded by the Dy. Chief Engineer (SCM) with full powers of Chief Engineer, vide Lr.No.SCM/TA 41/Cost data/14-15, dated, 01/06/2015, has been verified with the records made available in the Office of the Chief Engineer (SCM) and it is prepared according to the directions as envisaged in the Board Order (FM) No.1748/2011(KSE Board/ TRAC/S.CODE/SCC/R2/09), dated, 13.07.2011 and circular No.KSE Board/TRAC/S CODE/SCC/R2/09/502, dated, 13.07.2011. The materials for which no purchases were effected during previous six months (01-10-2014 to 31-03-2015), costs as per the previous Cost Data were seen included in the list.

Thiruvananthapuram,  
09-06-2015.

CHIEF INTERNAL AUDITOR

Registered office: Vydyuthi Bhavanam Pattom, Thiruvananthapuram – 695004

Cost data of transmission materials for the first half year 2015-16, based on weighted average procurement cost as on 31.3.2015

Sl. No	Name of material	Unit	All Inclusive unit Rate (Rs.)	Remarks (purchase order date)
1	400kV SF6 Circuit Breaker with structures	no.	31,22,911.00	5.3.2012
2	220kV SF6 Circuit Breaker with structure	no.	12,94,767.00	26.2.2015
3	110kV SF6 Circuit Breaker with structure	no.	5,63,779.00	26.2.2015
4	66kV SF6 Circuit Breaker with structure	no.	4,34,548.00	26.2.2015
5	11kV SF6 Circuit Breaker with density switch	no.	3,79,668.00	12.1.2012
6	11kV Potential Transformer	no.	23,400.00	23.12.2014
7	66kV Potential Transformer without structure	no.	48,558.00	12.7.2013
8	33kV Potential Transformer with structure	no.	30,917.00	12.7.2013
9	220kV Potential Transformer with out structure	no.	2,45,012.00	27.2.2015
10	110kV Potential Transformer with out structure	no.	96,780.00	24.1.2015
11	220kV Capacitor Voltage Transformer with structure	no.	206948.00	20.10.2014
12	220kV Capacitor Voltage Transformer without structure	no.	202833.00	9.3.2015
13	110kV Capacitor Voltage Transformer with structure	no.	1,85,866.00	12.12.2013
14	66kV Capacitor Voltage Transformer with structure	no.	1,32,668.00	12.12.2013
15	33kV Vaccum Circuit Breaker	no.	1,66,134.00	13.5.2011
16	12x4mm <sup>2</sup> Control Cable	Km	4,04,867.00	7.1.2014
17	19x4 mm <sup>2</sup> control cable	Km	6,19,296.00	7.1.2014
18	2x4 mm <sup>2</sup> control cable	Km	95,116.00	7.1.2014
19	2x2.5mm <sup>2</sup> Control Cable	Km	68,755.00	7.1.2014
20	4x2.5mm <sup>2</sup> Control Cable	Km	1,10,068.00	7.1.2014
21	6x2.5mm <sup>2</sup> Control Cable	Km	1,53,849.00	7.1.2014
22	7x2.5mm <sup>2</sup> Control Cable	Km	1,75,232.00	7.1.2014
23	10x2.5mm <sup>2</sup> Control Cable	Km	2,29,572.00	7.1.2014
24	12x2.5mm <sup>2</sup> Control Cable	Km	2,69,495.00	7.1.2014
25	19x2.5mm <sup>2</sup> Control Cable	Km	4,06,574.00	7.1.2014
26	4x4mm <sup>2</sup> Control Cable	Km	1,60,872.00	7.1.2014
27	11kV, 1x500 mm <sup>2</sup> XLPE UG cable	Km	6,29,590.00	3.2.2015
28	110kV, 1x400 mm <sup>2</sup> XLPE UG cable	Km	34,48,610.00	5.7.14

*A. P. M. B. S. S.*  
**CHIEF INTERNAL AUDITOR**  
 KERALA STATE ELECTRICITY BOARD LTD.

*S. V. D. S.*  
 Dy. Chief Engineer (SCM)  
 with powers of Chief Engineer-



Sl. No	Name of material	Unit	All Inclusive unit Rate (Rs.)	Remarks (purchase order date)
29	220kV Lightning Arrestor with structure	no.	53,207.00	20.12.2014
30	110kV Lightning Arrestor with structure	no.	37,494.00	20.12.2014
31	66kV Lightning Arrestor	no.	16,213.00	24.1.2015
32	33kV Lightning Arrestor	no.	9,353.00	24.1.2015
33	11kV Lightning Arrestor	no.	2,079.00	12.11.2014
34	120KN Disc Insulator	no.	639.00	21.3.2015
35	90KN Disc Insulator	no.	500.00	21.3.2015
36	70KN Disc Insulator	no.	480.00	21.3.2015
37	45KN Disc Insulator	no.	243.00	10.12.2014
38	11kV Autoreclosure	no.	1,70,534.5, supporting structure - Rs 7300.12	1.1.2011
39	220/110kV,100MVA transformer control & relay panel	sets	7,55,678.00	22.1.2014
40	110/11kV transformer control & relay panel	sets	3,36,311.00, spare-Rs 2,61,695.00	15.11.2014
41	110/66kV transformer control and relay panel	sets	3,97,000.00	4.7.2011
42	110/33 kV,16MVA transformer control and relay panel	sets	5,92,736.00	22.1.2014
43	66/33kV,16MVA transformer control & relay panel	sets	5,92,736.00	22.1.2014
44	66/11kV transformer control & relay panel	sets	2,90,196.00	9.11.2011
45	33/11kV transformer control & relay panel	sets	2,30,568.00	3.5.2011
46	220kV feeder control & relay panel	no.	6,10,332.00	18.11.2010
47	220kV Bus coupler panel	no.	2,14,993.00	13.8.2008
48	110kV feeder control & relay panel including spares	sets	5,01,418.00	25.3.2015
49	66kV feeder control & relay panel	sets	4,65,053.00	13.6.2014
50	33kV feeder control & relay panel	sets	2,06,181.00	13.6.2014
51	33kV 4 panel set	sets	24,84,257.00	31.8.2013
52	11kV 10 panel set	sets	29,64,920.00	27.3.2014
53	11kV Incomer outdoor cubicle	no.	2,69,689.00	20.12.2010
54	11kV, 630 A AB switch	no.	16,800.00	26.2.2015
55	33kV Pin Insulator with pin	sets	970.00	11.12.2013
56	100 AH, VRLA battery	sets	1,04,722.00	18.3.2015
57	100 AH, tubular lead acid battery	sets	1,95,615.00	26.2.2015
58	200 AH, tubular lead acid battery	sets	3,02,016.00	17.3.2015
59	200 AH, VRLA battery	sets	97,768.00	5.2.2011
60	110V,100 AH plante type battery	sets	3,64,530.00	23.7.2014




Sl. No	Name of material	Unit	All Inclusive unit Rate (Rs.)	Remarks (purchase order date)
61	110V,200 AH plante type battery	sets	5,63,116.00	23.7.2014
62	110V,400 AH plante type battery	sets	9,49,907.00	23.7.2014
63	15A Battery charger	no.	58,804.00	3.9.2013
64	30A Battery charger	no.	2,29,763.00	31.3.2015
65	60A Battery charger	no.	2,29,438.00	29.11.2014
66	ACSR Wolf	Km	1,00,328.00	20.11.2010
67	ACSR Dog	Km	63,442.00	28.4.2011
68	ACSR Moose	Km	3,89,656.00	16.2.2015
69	ACSR Kundah	Km	2,70,277.00	16.2.2015
70	G.I Earth wire (7/3.15 mm dia)	Km	32,919.00	8.5.2013
71	G.I Earth wire (7/3.66 mm dia)	Km	44,667.00	8.5.2013
72	Tower	MT	82,274.00	17.1.2014
73	Template	MT	65,186.00	23.6.2009
74	Transformer oil	KL	96,390.00	11.11.2014
75	11kV, 3x300mmm2 cable	Km	9,81,189.00	19.10.2012
76	33kV,3x300 mm2 cable	Km	14,42,320.00	27.11.2013
	<b>Power transformer</b>			
77	400/220/33kV 105 MVA	no.	3,75,61,726.00	2.4.2012
78	220/110kV, 66.67 MVA	no.	2,17,73,028.00	6.12.2010
79	110/11kV, 12.5MVA	no.	74,27,843.00	24.5.2011
80	110/33kV, 16MVA	no.	1,10,86,610.00	1.09.2014
81	110/22kV, 25MVA	no.	1,52,03,589.00	3.12.2009
82	110/11kV,20MVA	no.	1,14,83,724.00	3.12.2014
83	66/33kV, 16MVA	no.	1,25,77,259.00	18.12.2007
84	66/11kV, 16MVA	no.	87,19,876.00	24.8.2013
85	66/11kV, 10MVA	no.	55,01,812.00	13.5.2010
86	33/11kV, 5MVA (outdoor)	no.	35,21,829.00	17.10.2014
87	33/11kV, 5MVA (indoor)	no.	45,21,614.00	15.7.2014

### LINE ISOLATORS

88	420kV, 2000A pantograph Isolator with earth switch	no.	2,18,362.00, structure- Rs 21566.14	18.8.2011
89	420kV, 2000A triple pole line Isolator with structure	no.	7,00,657.00	25.4.2012
90	420kV, 2000A single pole line Isolator with structure	no.	2,72,394.00	25.4.2012

  
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 KERALA STATE ELECTRICITY BOARD LTD.

  
**Dy. Chief Engineer (SCM)**  
 with powers of Chief Engineer



Sl. No	Name of material	Unit	All Inclusive unit Rate (Rs.)	Remarks (purchase order date)
91	220kV,1250A triple pole single centre break gang operated Line isolator with Structure(Motorised)	sets	3,41,943.00	12.12.2013
92	220kV 2000A triple pole single centre break gang operated Line Isolator with Structure	sets	3,04,036.00	9.2.2010
93	220kV 1600A triple pole single centre break gang operated Line isolator with Structure	sets	3,65,824.00	29.1.2009
94	110kV 800A triple pole double break gang operated Line isolator with Structure	sets	1,51,039.00	5.3.2011
95	66kV, 800A triple pole double break gang operated Line isolator with Structure.	sets	1,11,591.00	13.01.2011
96	33kV, 800A Line isolator with Structure	sets	96,359.00	25.7.2014
97	11kV, 800A Line isolator with Structure		84,742.00	25.7.2014

#### BUS ISOLATORS

98	220kV,1250A triple pole single centre break gang operated Bus isolator with Structure(Motorised)	sets	2,53,091.00	11.2.2011
99	220kV, 2000A triple pole single centre break gang operated Bus isolator with Structure.	sets	2,58,564.00	9.2.2010
100	220kV, 1600A triple pole single centre break gang operated Bus isolator with Structure.	sets	3,24,980.00	12.12.2013
101	110kV, 1600A triple pole double break gang operated Bus isolator with Structure.	sets	1,53,883.00	5.3.2011
102	110kV, 1200A triple pole double break Bus isolator with Structure	sets	2,05,292.00	12.12.2013
103	110kV, 1200A single pole double break Bus isolator with Structure	sets	1,51,254.00	11.5.2009
104	110kV, 800A triple pole double break gang operated Bus isolator with Structure	sets	1,41,427.00	11.2.2011
105	66kV, 800A Bus isolator with Structure	sets	1,29,184.00	25.7.2014
106	33kV, 800A Bus isolator with Structure	sets	80,321.00	25.7.2014
107	11kV, 800A Bus isolator without Structure.	sets	51,297.00	25.7.2014

*[Signature]*  
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*[Signature]* 11/6/15  
**Dy. Chief Engineer**  
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Sl. No	Name of material	Unit	All Inclusive unit Rate (Rs.)	Remarks (purchase order date)
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### CURRENT TRANSFORMERS

108	400kV Current transformer 2000/1000/500/1A(5C) with	no.	7,02,396.00	28.4.2012
109	220kV current transformer 1000-500/1-1-1-1A	no.	2,44,214.00	7.12.2012
110	220kV Current transformer 1600/800/1-1-1-1A	no.	2,44,214.00	7.12.2012
111	220kV Current transformer 1200/600/1-1-1-1A with Structure	no.	2,80,038.00	14.6.2010
112	220kV Current Transformer 800/400/1-1-1-1A with out Structure	no.	3,29,282.00	1.8.2014
113	110kV Current transformer 1600/800/1-1-1-1A with Structure	no.	2,03,686.00	1.8.2014
114	110kV current transformer 1000/500/1-1-1-1A with out structure	no.	2,17,137.00	30.4.2014
115	110kV Current transformer 1200/600/1-1-1-1A with Structure	no.	1,63,071.00	1.8.2014
116	110kV Current transformer 800/400/1-1-1-1A with Structure	no.	1,63,071.01	1.8.2014
117	110kV Current transformer 400/200/100/1-1-1-1A with Structure	no.	1,81,241.00	1.8.2014
118	110kV Current transformer 400/200/100/1-1-1-1A with Structure	no.	1,58,965.00	1.8.2014
119	110kV Current transformer 300/150/75/1-1-1-1A with Structure	no.	1,75,897.00	1.8.2014
120	110kV Current transformer 600/300/150/1-1-1-1A with Structure	no.	1,64,646.00	1.8.2014
121	110kV current transformer, 100-50/1A	no.	1,09,054.00	24.1.2015
122	66kV Current transformer 600/300/150/75/1-1-1-1A without SS	no.	58587.00	7.11.2013
123	66kV Current transformer 400/200/100/50/1-1-1-1A with SS	no.	72502.00	7.11.2013
124	33kV Current transformer 400/200/100/1-1-1-1A with Structure	no.	35030.00	31.10.2013

### NEUTRAL CURRENT TRANSFORMERS

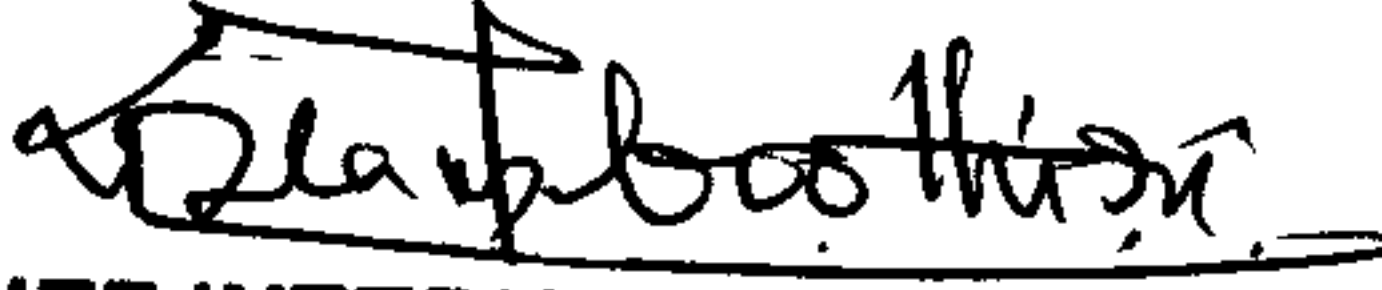
125	110kV neutral current transformer 400/200/100/1A	no.	23116.00	29.8.2013
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*meetha*  
CHIEF INTERNAL AUDITOR  
KERALA STATE ELECTRICITY BOARD LTD.

*Sudhadevi*  
Dy. Chief Engineer  
with power

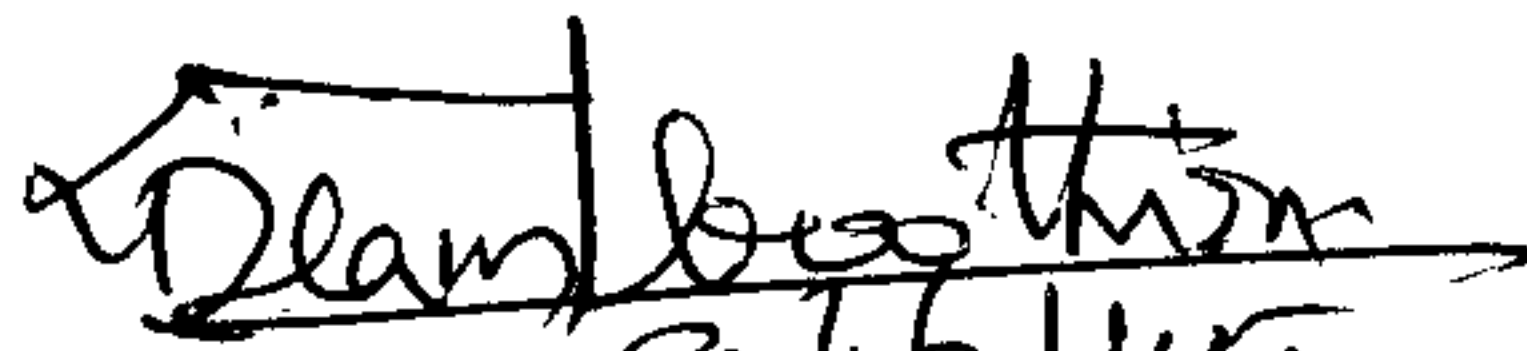




Sl. No	Name of material	Unit	All Inclusive unit Rate (Rs.)	Remarks (purchase order date)
126	110kV neutral current transformer 300/150/75/1A	no.	23116.00	29.8.2013
127	66kV neutral current transformer 200/100/1A	no.	23116.00	29.8.2013
128	66kV neutral current transformer 150/75/1A	no.	23116.00	29.8.2013
129	33kV neutral current transformer 400/200/100/1A	no.	18405.00	5.10.2010
<b>Others</b>				
130	32 mm MS Rod	MT	50768.00	20.1.2015
131	25mm MS Rod	MT	50768.00	20.2.2015
132	11kV Vaccum Circuit Breaker 1250A Vaccum Interruption 'Type VG2'	no.	2,01,057.00	11.5.2012
133	11kV XLPE 3x300mm <sup>2</sup> heat shrinkable outdoor end joint kit	no.	2335.00	5.2.2015
134	11kV XLPE 3x300mm <sup>2</sup> heat shrinkable Indoor end joint kit	no.	2100.00	5.2.2015
135	11kV XLPE 3x300mm <sup>2</sup> heat shrinkable Indoor straight joint kit	no.	4767.00	31.10.2013
136	11kV XLPE 1x500mm <sup>2</sup> heat shrinkable indoor straight joint kit	no.	4408.00	11.8.2014
137	11kV XLPE 1x500mm <sup>2</sup> heat shrinkable indoor end joint kit	no.	1306.00	5.2.2015
138	11kV XLPE 1x500mm <sup>2</sup> heat shrinkable outdoor end joint kit	no.	1532.00	5.2.2015
139	11kV XLPE 1x500mm <sup>2</sup> heat shrinkable outdoor straight joint kit	no.	3850.00	31.10.2013
140	33kV XLPE 3x300mm <sup>2</sup> heat shrinkable outdoor cable end joint kit	no.	15457.00	5.2.2015
141	33kV XLPE 3x300mm <sup>2</sup> heat shrinkable indoor cable end joint kit	no.	3490.00	5.2.2015
142	33kV XLPE 3x300mm <sup>2</sup> heat shrinkable straight joint kit	no.	22103.00	14.10.2013
143	33kV XLPE 3x300mm <sup>2</sup> cold shrinkable outdoor cable end joint kit	no.	22900.00	7.5.2014
144	33kV XLPE 3x300mm <sup>2</sup> cold shrinkable straight joint kit	no.	50380.00	7.5.2014
145	22kV outdoor CT 400-200-100/5-5-1-1	no.	34125.00	23.5.2014
146	22kV outdoor CT 200-100/5-5	no.	30975.00	23.5.2014
147	11kV CT -Indoor resin cast ring type 1000- 500/5-5A	no.	16269.00	31.1.2012
148	11kV CT -Indoor resin cast ring type 1000- 500/1A	no.	14766.00	31.1.2012

  
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Sl. No	Name of material	Unit	All Inclusive unit Rate (Rs.)	Remarks (purchase order date)
149	11kV CT - outdoor type 800-400/1-1A	no.	26,900.00	13.2.2015
150	11kV CT - outdoor type 400-200-100/5-5-1A	no.	24570.00	18.7.2014
151	11kV CT - outdoor type 400-200-100/5-5-1-1A	no.	30975.00	23.5.2014
152	11kV CT - outdoor type 400-200/5-5-1A	no.	31052.00	28.4.2014
153	11kV CT - outdoor type 400-200/5-5A	no.	30894.00	9.10.2014
154	11kV CT - outdoor type 200-100/5-5-1A	no.	28875.00	23.5.2014
155	11kV CT - outdoor type 200/5-5A	no.	29887.00	4.11.2014
156	11kV CT -1000/500/1/1A (oil immersed	no.	54390.00	5.1.2012
157	11kV feeder CT 400/200/5-5	no.	30894.00	9.10.2014
158	11kV CT 1200/5A	no.	13020.00	3.6.2014
159	11kV CT 1200/1A	no.	16275.00	3.6.2014
160	11kV CT 200/5A	no.	12305.00	26.2.2014
161	33kV outdoor CT 1600/1	no.	40243.00	18.2.2012
162	33kV outdoor CT 200/1	no.	25585.00	9.2.2015

  
 9.1.6.15  
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