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KARNATAKA POWER TRANSMISSION CORPORATION LIMITED
Corporate Identity Number(CIN):U40109KA1999SGC025521

No: B19/7625/86-87

Corporate Office,
KaveriBhavan,
Bengaluru-560 009.
Dated:30.12.2017

CIRCULAR

Sub: Revision of Part-III Repair of Power Transformers of Major Works SR-2016 consequent to inclusion of GST – reg.

- Ref:**
1. Gazette Notification - Introduction of Goods and Service tax(GST) Reg.
 2. Circular No: B19/7625/86-87 Dt:26.07.2017.
 3. Proceedings of 3rd meeting of SR Revision committee held on 17.10.2017 at Kaveri Bhavan, Bengaluru.
 4. Note No:KCO-92/F-81100 Dt:10.11.2017 approved by Managing Director KPTCL.

Government of India has introduced Goods and Service tax (GST) with effect from 1st July-2017 by consolidating all indirect taxes i.e CVAT, KVAT & Service tax of both State and Central Governments.

In this regard, SR Revision committee has revised the cost of all the materials in MWSR-2016 consequent to introduction of Goods and Service tax(GST). Accordingly a Circular dated 26.07.2017 was issued for the material portion of revised Major Works SR-2016 indicating Base price, F&I and applicable GST for material with effect from 01.07.2017.

Now, SR Committee has revised the schedule of Rates-2016 for repair of Power Transformers consequent to introduction of GST as the same was not considered earlier while revising the material portion of SR-2016. The copy of the Revised Major Works SR-2016 for Part-III Repair of Power Transformers is enclosed. The same shall be considered for preparation of estimates for repair of Transformers. Further the applicable rate of GST shall be adopted as and when there is a change in rate of GST.

Deputy General Manager (Technical)
KPTCL

To:-

All Chief Engineers Electricity, KPTCL.
The Financial Adviser(A&R)/(I/A), KPTCL, Bengaluru.
All Superintending Engineers El., works/Works & Maintenance Circle, KPTCL.
All Controller of Accounts, Transmission Zones, KPTCL.
All Executive Engineers Ele., Majors Works/ TL&SS Division, KPTCL.
PS to Managing Director / Director(Transmission)/ Director(Finance)/ Director(Admin & HR)/
Director & Company Secretary , KPTCL to place the circular before the Directors for kind information.

Copy for information to :

The Superintending Engineers El., IT&MIS with a request to upload the revised SR on KPTCL Website.

AB/11/118

157

PART III: ITEMISED SCHEDULE OF RATES FOR REPAIR OF POWER TRANSFORMER

| Sl. No. | DESCRIPTION OF WORKS | UNIT | Base rate excluding tax in Rs. | Applicable % rate of GST | MWSR with GST in Rs. |
|---------|--|-----------|--------------------------------|--------------------------|----------------------|
| 1 | Draining out oil from the Power Transformer complete collecting the oil in barrels (supplied by KPTCL) shifting barrels to safe place (in the station premises only) with proper tightness of cork/lid to avoid entry of moisture. | Ltrs. | 1.02 | 18 | 1.21 |
| 2 | Unloading of the Faulty Transformer tank with active parts of accessories at firm's work or loading of repaired Transformer tank with active parts or accessories at firm's works | MT | 149.34 | 18 | 176.23 |
| 3 | Dismantling faulty transformer for joint inspection at repairers premises including all activities such as opening of top cover, de-tanking of core and winding, separation of HV/LV coils, conducting of preliminary test required for assessment of repair work to be undertaken, dismantling core etc., in the presence of KPTCL authorised representative. | 5 MVA | 14931.88 | 18 | 17619.62 |
| | | 6.3 MVA | 14931.88 | 18 | 17619.62 |
| | | 8 MVA | 22397.38 | 18 | 26428.91 |
| | | 10 MVA | 35292.58 | 18 | 41645.24 |
| | | 12.5 MVA | 37328.38 | 18 | 44047.49 |
| | | 16/20 MVA | 44794.76 | 18 | 52857.82 |
| | | 31.5MVA | 44794.76 | 18 | 52857.82 |
| | | 100MVA | 47676.42 | 18 | 56258.17 |
| 4 | Providing new windings in place of damaged winding including cost of materials, labour, drying etc., (Both HV & LV) - per Kg of winding | 5 MVA | 551.64 | 18 | 650.94 |
| | | 6.3 MVA | 551.64 | 18 | 650.94 |
| | | 8 MVA | 551.64 | 18 | 650.94 |
| | | 10 MVA | 551.64 | 18 | 650.94 |
| | | 12.5 MVA | 551.64 | 18 | 650.94 |
| | | 16/20 MVA | 551.64 | 18 | 650.94 |
| | | 31.5MVA | 551.64 | 18 | 650.94 |
| | | 100MVA | 551.64 | 18 | 650.94 |

| | | | | | | |
|---|----|---|-----------|----------|----|----------------|
| 5 | a) | Providing solid insulation materials for replacement to damaged or burnt insulation as per actual weight. | Kgs. | 415.34 | 18 | 490.10 |
| | b) | Providing re-insulation to HV/LV winding whenever necessary for total weight of winding except solid insulation | Kgs. | 162.45 | 18 | 191.69 |
| 6 | | Providing new CRGO lamination to the core in place of damaged lamination wherever necessary including cost of materials and labour. | Kgs. | 440.50 | 18 | 519.79 |
| 7 | | Repair and overhauling of OLTC each Divertor switch including change of oil, lubrication and replacement of gaskets and other parts which are locally available | 5 MVA | 14931.88 | 18 | 17619.62 |
| | | | 6.3 MVA | 14931.88 | 18 | 17619.62 |
| | | | 8 MVA | 22397.38 | 18 | 26428.91 |
| | | | 10 MVA | 22397.38 | 18 | 26428.91 |
| | | | 12.5 MVA | 29862.88 | 18 | 35238.20 |
| | | | 16/20 MVA | 29862.88 | 18 | 35238.20 |
| | | | 31.5MVA | 29862.88 | 18 | 35238.20 |
| | | | 100MVA | 45516.81 | 18 | 53709.84 |
| | b) | Spares for OLTC/Divertor switch (spares to be procured from the original manufacturers only) | LS | | | As per actuals |
| 8 | | Cleaning, Repairing and painting inside the Transformer Tank with hot oil bath and acid proof epoxy paint and painting outside the tank with enamel paint after thorough cleaning including the cost of materials including the painting of radiators at site/Firm. | 5 MVA | 16289.08 | 18 | 19221.12 |
| | | | 6.3 MVA | 16289.08 | 18 | 19221.12 |
| | | | 8 MVA | 19682.10 | 18 | 23224.87 |
| | | | 10 MVA | 29862.88 | 18 | 35238.20 |
| | | | 12.5 MVA | 29862.88 | 18 | 35238.20 |
| | | | 16/20 MVA | 32577.29 | 18 | 38441.21 |
| | | | 31.5MVA | 32577.29 | 18 | 38441.21 |
| | | | 100MVA | 35401.97 | 18 | 41774.32 |

(155)

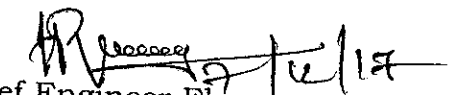
| | | | | | |
|----|--|-----------|-----------|----|-----------|
| 9 | Re-assembly of Core and winding | 5 MVA | 14931.88 | 18 | 17619.62 |
| | | 6.3 MVA | 14931.88 | 18 | 17619.62 |
| | | 8 MVA | 22397.38 | 18 | 26428.91 |
| | | 10 MVA | 42079.48 | 18 | 49653.78 |
| | | 12.5 MVA | 47509.17 | 18 | 56060.82 |
| | | 16/20 MVA | 52260.26 | 18 | 61667.11 |
| | | 31.5MVA | 52260.26 | 18 | 61667.11 |
| | | 100MVA | 54873.28 | 18 | 64750.46 |
| 10 | Drying out the assembly of core and winding in oven/ vacuum chamber, till the specified insulation resistance values are obtained | 5 MVA | 19004.37 | 18 | 22425.15 |
| | | 6.3 MVA | 19004.37 | 18 | 22425.15 |
| | | 8 MVA | 28504.80 | 18 | 33635.67 |
| | | 10 MVA | 52938.86 | 18 | 62467.86 |
| | | 12.5 MVA | 61082.97 | 18 | 72077.90 |
| | | 16/20 MVA | 66513.54 | 18 | 78485.97 |
| | | 31.5MVA | 66513.54 | 18 | 78485.97 |
| | | 100MVA | 114628.82 | 18 | 135262.01 |
| 11 | Tanking the assembly, giving connection, providing new gaskets and insulating materials conforming to relevant ISS, putting back the cover, tightening the fixtures, fixing the bushing etc., including required miscellaneous consumable items like gasket, insulating materials, fasteners etc. Other accessories at repairers work to facilitate the testing. | 5 MVA | 11198.25 | 18 | 13213.94 |
| | | 6.3 MVA | 22397.38 | 18 | 26428.91 |
| | | 8 MVA | 22397.38 | 18 | 26428.91 |
| | | 10 MVA | 22397.38 | 18 | 26428.91 |
| | | 12.5 MVA | 29862.88 | 18 | 35238.20 |
| | | 16/20 MVA | 29862.88 | 18 | 35238.20 |
| | | 31.5MVA | 29865.50 | 18 | 35241.29 |
| | | 100MVA | 41266.38 | 18 | 48694.32 |

(154)

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|----|---|-----------|----------|----|----------------|
| 12 | Filling of oil to the main tank and OLTC tank, filtering the oil including filtering till attainment of prescribed BDV values including labour, filtering equipment along with accessories. The minimum BDA value shall be 50KV. Note: The Transformer oil will be supplied by KPTCL. | Ltrs. | 4.28 | 18 | 5.05 |
| 13 | Spares for Transformer such as Bushing, Oil gauge, valves etc., which shall be procured from the original manufacturers. | LS | | | As per Actuals |
| 14 | Other spares | LS | | | As per Actuals |
| 15 | a) Testing the transformer for routine tests as per IS 2026-1983 if repairs are carried out at Repairer's work. b) Testing the transformer for IR values, Voltage ratio at all Taps, Short circuit test, Magnetic balance, Magnetising current measurement at low voltage from HV & LV. Magnetising current measurement at rated voltage from LV side. | 5 MVA | 14931.88 | 18 | 17619.62 |
| | | 6.3 MVA | 22397.38 | 18 | 26428.91 |
| | | 8 MVA | 29862.88 | 18 | 35238.20 |
| | | 10 MVA | 29862.88 | 18 | 35238.20 |
| | | 12.5 MVA | 29862.88 | 18 | 35238.20 |
| | | 16/20 MVA | 29862.88 | 18 | 35238.20 |
| | | 31.5MVA | 29862.88 | 18 | 35238.20 |
| | | 100MVA | 45851.53 | 18 | 54104.80 |
| 16 | Providing new Transformer Oil | Ltrs. | 0.72 | 18 | 85.00 |
| 17 | Transit risk insurance | LS | | | As per actuals |
| 18 | Supervising and commissioning of Transformer in the presence of RT Staff as and when the Transformer is ready for commissioning | 5 MVA | 7465.50 | 18 | 8809.29 |
| | | 6.3 MVA | 7465.50 | 18 | 8809.29 |
| | | 8 MVA | 7465.50 | 18 | 8809.29 |
| | | 10 MVA | 12216.59 | 18 | 14415.58 |
| | | 12.5 MVA | 12216.59 | 18 | 14415.58 |
| | | 16/20 MVA | 12216.59 | 18 | 14415.58 |
| | | 31.5MVA | 12216.59 | 18 | 14415.58 |
| | | 100MVA | 13468.79 | 18 | 15893.18 |

153

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|----|---|---------|---------|----|---------|
| 19 | Scrap value of Copper, Iron and CRGO sheets | | | | |
| | a) Scrap Copper | Rate/kg | 391.00 | 18 | 461.38 |
| | b) Scrap Iron | Rate/kg | 25.50 | 18 | 30.09 |
| | c) Scrap CRGO | Rate/kg | 66.33 | 18 | 78.27 |
| 20 | WTI (with scada compatability) | Nos | 2654.03 | 18 | 3131.75 |
| 21 | OTI (with scada compatability) | Nos | 2747.76 | 18 | 3242.36 |
| 22 | OSR | Nos | 2072.84 | 18 | 2445.95 |
| 23 | BH Relay | Nos | 2733.02 | 18 | 3224.96 |
| 24 | PRV | Nos | 2964.51 | 18 | 3498.12 |
| 25 | MOG-Magnetic Oil Gauge | Nos | 1748.29 | 18 | 2062.98 |
| 26 | Breather (2 Nos) | Nos | 561.70 | 18 | 662.80 |
| 27 | Various types of valves | Nos | 4423.38 | 18 | 5219.59 |


Chief Engineer Elec.,
P&C, KPTCL
Chairman, SR Revision Committee