



MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LTD.
CIN NO-U40109MH2005SGC153646

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Ref No. EE/EHV O&M/DN/SGL/T/No. **1477**

Date: **10 Dec 2024**

TO WHOM SO EVER IT MAY CONCERN
BUDGETARY OFFER FOR ESTIMATE

Please find herewith a detail schedule “A” for Work of complete overhauling & removing of sludge of 220/33KV, 100MVA, CGL-Make TF-3 at 220KV Ghatnandre S/Stn under EHV O&M Division, Sangli. All interested & experienced bidders are requested to submit their best lowest budgetary offer on the **Mail ID:-ee3120@mahatransco.in /adee3120@mahatransco.in** for the same upto **Dtd. 18/12/24**. Taxes should be quoted distinctly if any. Please note that this budgetary offer is for estimation purpose only.

SCHEDULE – “A”

Sr. No.	Particulars of work	Unit	Rate/ Unit in Rs	18% GST	Rate/ Unit in Rs with GST
1	Work of complete overhauling & removing of sludge of 220/33KV, 100MVA, and CGL-Make TF-3 sr. no. BH9147/3 at 220KV Ghatnandre S/Stn under EHV O&M Division, Sangli	No.			

Note:-1. Please Clearly Mention Taxes & Other Conditions.

2. Material should be ISI Mark & Branded/OEM Mfg
3. The work experience to carry out the work – The MSETCL authorized OEM/ Transformer repairer who has work experience of transformer repair more than 50MVA & above in MSETCL/PGCIL.
4. Filtration machine, used should filter particle count.
5. Before submitting Budgetary offer the agency should visit & inspect the transformer at site on that basis budgetary offer should be submitted.

The basic activities for carrying out the above mentioned work should be as follows:

1. Oil testing for knowing the particle contents.
2. Draining of oil from transformer to the storage tanks under dry air or Nitrogen cushion.
3. Removal of conservator, bushings, Buchholz relay pipe work, turrets, inspection covers etc.
4. Washing of all these accessories with new oil.
5. Oil jet cleaning of the internal part of the transformer along with winding for removal of sludge.
6. Draining of residual oil from the transformer.
7. Draining of complete oil from OLTC conservator as well as OLTC chambers. To be stored separately and not to be reused.
8. Removing of complete sludge from Transformer. The process should continued till sludge is not removed.
9. New oil to be used for OLTC (Oil will be provided by MSETCL).
10. Installation of conservator, pipe work, turrets, bushings etc. New gaskets to be used while installation.
11. Oil leakage points to be attended at this stage, using new gaskets.
12. Oil filtration in the storage tank (new oil or reusable oil)
13. Carry out particle count test, if old oil to be reused. Particle separation to be exercised- filter

- the oil through particle count filter to bring particle level less than low contamination level.
14. Test the oil for all the parameters (including DGA) in the laboratory. For oil filling purpose, at least a BDV test to be carried out at site.
 15. Equalizing OLTC, apply vacuum to the transformer and achieve at least 1.3 mBar.
 16. Fill treated and tested (at least BDV) oil from storage tank to the transformer under vacuum.
 17. Fill treated and tested (at least BDV) in OLTC.
 18. Carry out hot oil filtration in transformer isolating the cooler bank
Achieve 55 Deg. C. of bottom oil temperature (Filter machine outlet temperature should be 65 Deg. C. maximum)
 19. After achieving 55 Deg. C. as the bottom oil temperature, give at least 3 passes. There should be moisture content test instrument at site (better to have it online with the oil filter plant).
The aim is to achieve at least 5 ppm or less of the moisture content in oil.
 20. On achieving above conditions, drain oil from transformer to the storage tanks under dry air or Nitrogen cushion.
 21. Apply vacuum (equalizing the OLTC) to the transformer and achieve at least 1.3 mBar of vacuum.
 22. After achieving 1.3 mBar of vacuum, maintain it for at least 24 hours. In parallel, carry out oil filtration in the storage tanks and keep the hot oil ready for filling (at least 55 Deg. C.).
 23. After completion of 24 hours of vacuum, fill treated and tested oil (at least BDV) from storage tank to the transformer.
 24. Carry out oil filtration in the transformer for 3 cycles.
 25. Open the cooler bank and continue the oil filtration for 2 cycles.
 26. On completion of the filtration, give settling time of at least 24 hours.
 27. Carry out air cell commissioning.

Kindly note that this is the tentative schedule and it may differ. Depending upon the site conditions and site proceedings, we may have to differ the schedule slightly.

**Executive Engineer,
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