



ଓଡ଼ିଶା ବିଦ୍ୟୁତ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ନିୟ୍ୟ ।

ODISHA POWER TRANSMISSION CORPORATION LTD.

(A Government of Odisha under taking)

Regd. Office: Janpath, Bhubaneswar-751022, Odisha

OFFICE OF THE GENERAL MANAGER (ELECT.)

EHT (O&M) CIRCLE: BURLA,

AT/PO – BURLA, DIST.: SAMBALPUR – 768017

TELE/FAX: (0663) 2430160, e-mail: ehtm.cle.brl@optcl.co.in

CIN: U40102OR2004SGC007553

OPEN TENDER CALL NOTICE NO. BRL-41/ 2025-26

The General Manager (Elect.), E.H.T. (O&M) Circle, Burla invites sealed Tenders in duplicate having valid Electrical license, PAN, GST Registration Certificate holder for “Overhauling and maintenance including gasket replacement, oil filtration & supply of HV B-phase CT terminal of 100MVA (Make-ABB) Auto Transformer-II at 220/132/33KV Grid Sub-Station, Katapali” under E.H.T. (O&M) Division, Jharsuguda.

The tender specification can be obtained from the office of The G.M. E.H.T. (O&M) CIRCLE, BURLA on payment of **Rs. 4000/- (Four Thousand only)** + GST @ 18% (Non Refundable) in shape of Cash/Bank Draft in favor of EHT (O&M) CIRCLE, BURLA payable at BURLA, Sambalpur on (During Office hour) from **Dt. 27.11.2025 to 11.12.2025**. In case the B.D made any other nationalized bank payable at any clearing branch at Burla will be allowed, But the bidders have to deposit the collection fee (Bank transaction fee) along with the paper cost. The collection fee & Paper cost is Nonrefundable. Additional amount of Rs.100/- (One Hundred only) may be paid extra for postal delivery of the tender specification. The undersigned shall not be held responsible for any postal delay.

The Tender shall be received Up to 13:00 Hr. of dated 12.12.2025 & will be opened at 17:00 Hr. on Dt. 12.12.2025 in the Office of the undersigned in the presence of the Bidders (or) their Authorized Representatives present if any. If any of the above date happens to be a holiday, the next working day will be the corresponding effective date. One Tender paper shall be issued to one Bidder. E.M.D @ Rs. 7,694/- (1% of the total estimated value) should be deposited in shape of Demand Draft / Cash in favour of “E.H.T. (O&M) Circle, OPTCL, Burla & payable at "Union Bank of India", Burla Branch along with Self Attested Copy of Electrical License, PAN Card and GST Registration Certificate failing which the tender will be liable for rejection.

The bidder should super scribe only the “Tender Call Notice No. & Date of Opening of the tender on the body of the Sealed Envelope”. Bidder should not write their name or any other information on the body of the sealed envelope. Super scribing any other information on the body of the envelop, Conditional tender, Incomplete tender, Telegraphic / Fax / E-mail (etc.) Tenders & Tenders not accompanied with requisite amount of E.M.D. will be rejected. The authority reserves all rights to reject any, all or part of the Tender, alter/modify the requirement/ delete any part of the tender without assigning any reason thereof.

N.B:- Tender Paper must be purchased from this office only within stipulated period. No other mode like downloaded paper from website will be accepted.

*D.S
27/11/25*

GENERAL MANAGER
E.H.T. (O&M) Circle, Burla

Energy is precious. Save it.

TECHNICAL SPECIFICATION FOR OVERHAULING AND MAINTENANCE INCLUDING
GASKET REPLACEMENT, OIL FILTRATION & SUPPLY OF HV B-PHASE CT TERMINAL OF
100MVA (MAKE-ABB) AUTO TRANSFORMER-II AT 220/132/33KV GRID SUB-STATION,
KATAPALI.

Sl. No.	Description of Items.	Unit	Qty.
1	Maintenance of 100MVA 220/132/33KV Auto Transformer-II at 220/132/33KV Grid S/S, Katapali.		
1.1	Dismantling of turret, Radiator bank, HV B-Phase bushing and turret & assembly of the same.	Lot	1
1.2	Preparation of gaskets with supply and fixing.	Lot	1
1.3	Oil drain out from 100MVA Transformer, filling the filtered oil in Transformer (oil filtration in Transformer)	Lot.	1
1.4	Dry air purging in Transformer including hiring and Transportation of dry air plant for evacuation of Transformer.	Lot.	1
1.5	Supply and installation of HV B-Phase Turret CT terminal.	No.	1

SCOPE OF THE CONTRACT:

- Scope:** The scope of this specification covers the supply of materials, repair, assembling, inspection, testing, and Fixing the Transformer (100 MVA, Auto Transformer-II, ABB make of 220/132/33 KV Grid S/S, Katapali. The details scopes of repairs are enumerated as follows.
 - Supply of Material:-** The materials may be supplied by the Firm with Good quality & reputed Brand. Any other materials required not in scope may be provided by the Firm, which will be paid extra as applicable.
 - Nitrile base cork or equivalent shall be used for gaskets. Oil resistant synthetic Rubber gaskets are not permissible except where the synthetic rubber is used as a bonding medium for cork or similar material or where metal inserts are provided to limit compression.
 - Gasket Replacement:-** Complete gasket replacement including main tank cover conservator joints, dummies, Turrets, Pipe joints, bushing, Radiators.
 - Vacuum:-** Drying heating Vacuum of Core & winding with cleaning of inside of Transformer with painting.
 - Filtration of Oil:-** Oil filtrations of the transformer including supply of Filter machine, pipes, T&P, consumables and Labour as required.

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- 1.5. **Repair:-** Welding, Brazing, minor repair with consumables for completion of work.
- 1.6. **Fixation of Accessories:-** Assembling the transformer with the supplied material by the Firm as well as OPTCL in complete shape.
- 1.7. **Testing:-**
Routine Test: Following routine tests shall be carried out on repaired transformer as per IS:2026 and this Technical specification in presence of OPTCL's representative.
 - i) Measurement of DC resistance of windings at principal and extreme taps.
 - ii) Measurement of voltage ratio and check of voltage vector relationship.
 - iii) Measurement of Insulation Resistance at 60 & 600 second intervals before & after all the tests.
 - iv) Operation and dielectric testing of OLTC as per IS:2026 clause 16.9.
 - v) Measurement of no load loss and no load current by 3 watt meter method.
 - vi) Oil BDV Test.
 - vii) Measurement of capacitance and tan-delta to determine capacitance between winding and earth. This measurement shall be carried out before and after series of dielectric tests.
 - viii) Determination P.I. value:- Polarization Index shall be measured in respect of all windings by taking insulation resistance for 10 mins & 1 min. This should not be less than 1.5 or more than 5. P.I. shall be measured before and after all the tests.
 - ix) Magnetic Balance test.
 - x) DGA test of oil before and after all the tests.
 - xi) Measurement of power taken by fans.
 - xii) P.P.M. test/ Water Content test.
- 1.8. **Commissioning:-** After testing, if the Transformer is found OK and with clear instruction from OPTCL, the Transformer may be dragged to the desired location & commissioned at that location for charging. The firm's workmen will remain present till charging & loading of the Transformer (Idle charging for 24 hours & loading for 24 hours).



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