

Short term E-Tender Notice

POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD.
(A Govt. of Uttarakhand Enterprise)
CHIEF ENGINEER, OPERATION & MAINTENANCE
GARHWAL ZONE, PTCUL
26 - CIVIL LINES, ROORKEE – 247667

**E-Tender for “Supply of transformer oil for various Substation under O&M Circle Roorkee”
against E-Tender specification No. CE/GZR-01/2026-27.**

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Sr. No.	DESCRIPTION	
1.	Tender No.	CE/GZR-01/2026-27
2.	Name of Work	Supply of transformer oil for various Substation under O&M Circle Roorkee
3.	Completion Time	04 Months
4.	Tender issuing office	Office of Chief Engineer (O&M) Garhwal Zone, Power Transmission Corporation of Uttarakhand Ltd. " 26-Civil Lines, Roorkee-247667
5.	Tender Fees	Rs. 5,000.00+ 900.00 (GST@18%) =Rs. 5900.00 (Non refundable)
6.	EMD/Bid Security	Rs. 1,65,000.00
7.	Last date of Submission of Bid	04.05.2026
8.	Last Date and Time of Opening of Bid	05.05.2026
9.	Address & Place of Submission of Bid supporting documents.	Chief Engineer (O&M), Garhwal Zone, PTCUL, 26-Civil Lines Roorkee-247667.
10.	Type of Tender	Short term open tender
11.	Contact & Telephone No. of the Tender issuing office	Phone No.:- 01332-272256
12.	E-mail address of the tender issuing office	ce_oandmg@ptcul.org

**(CHIEF ENGINEER (O&M)
GARHWAL ZONE,
ROORKEE**

Pre, Technical and Financial Qualifying Requirement/Criteria

Scope of Work:-

Supply of transformer oil for various Substation under O&M Circle Roorkee,

TECHNICAL CRITERIA

1. The Tenderers/bidders should have adequate experience of having successfully completed supply of Transformer oil or any other electrical equipments at 66 KV or above voltage Substation during last 07 years of any State Transmission Utility (STU), Central Transmission Utility (CTU), Government Power Utility, PSU in which applications are invited should be either of the following:
 - a. Three similar completed work/supply costing not less than the amount equal to Rs. 18.66 Lakh.
Or
 - b. Two similar completed work/supply costing not less than the amount equal to Rs. 23.32 Lakh.
Or
 - c. One similar completed work/supply costing not less than the amount equal to Rs. 37.32 Lakh .
2. The Tenderer should furnish the details of their experience and statement of past work/supply in the form "Details of orders executed during last five years" annexed. Photostat copies of order and performance reports of these items from various State Electricity Boards/other Govt. Departments also be given.
3. Experience certificate should be issued by an officer not below the rank of Executive Engineer mentioning nature of work/supply, Agreement No., Amount of work, Scheduled time of completion of work/supply and actual time of completion etc.

FINANCIAL CRITERIA

1. **Minimum Average Annual Turnover (MAAT):-** The minimum annual average turnover of the tenderer for best three years (36 months) out of last five financial years should not be less than **Rs. 82.57 Lakh.**
2. **Access to Finances :** The Bidder must demonstrate availability of access to finance for **Rs. 16.51 Lacs** at the time of bidding through a certificate (as per Annexure-A) duly certified by a Chartered Accountants/ Auditor of the company which shall not be more than one month old as compared as compared to the date of submission of the bid.
3. For Financial Qualification Criteria, Joint Venture Partners shall jointly/collectively meet 100% of Financial Qualification Requirement (FQR) of the respective Tender.
Note: The Balance sheet and all other financial documents attested/certified by CAs to substantiate fulfillment of FQR should be within UDIN failing which tender will be summarily rejected without any further reference.
4. A copy of PAN of the firm and all its partners.
5. A copy of GST Registration.
6. A copy of EPF Registration
7. Solvency certificate from Bank (20% of bid value) should be submitted




Superintending Engineer
Operation & Maintenance Circle
PTCUL 26, Civil Lines
ROORKEE-247667

TECHNICAL SPECIFICATION FOR TRANSFORMER INSULATING OIL

1: Scope

This specification covers the requirements for supply of new, unused, inhibited mineral insulating oil suitable for use in power transformers, instrument transformers and associated electrical equipment.

The oil shall be suitable for operation under Indian climatic conditions and shall conform to the latest applicable standards.

2. Applicable Standards

IS 335:2018 – New Insulating Liquids (Mineral Oil for Transformers and Switchgear).
IEC 60296 – Fluids for electro-technical applications.

3. Type of Oil

- i. Type: Mineral Insulating Oil
- ii. Grade: Inhibited Oil
- iii. Inhibitor: DBPC (Di-tert-butyl para cresol)
- iv. Inhibitor Content: 0.2% to 0.4% by weight

4. General Requirements

The oil shall be new, unused, free from moisture, sediments, non-toxic, non-corrosive, chemically stable, PCB-free and compatible with transformer materials.

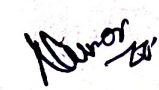
5. Technical Parameters: Refer to table below.

S. No.	Parameter	Requirement
i.	Appearance	Clear, free from sediments
ii.	Density at 20°C	$\leq 0.895 \text{ g/cm}^3$
iii.	Kinematic Viscosity at 40°C	$\leq 12 \text{ cSt}$
iv.	Flash Point	$\geq 135^\circ\text{C}$
v.	Pour Point	$\leq -10^\circ\text{C}$
vi.	Water Content	$\leq 30 \text{ ppm}$
vii.	Acidity	$\leq 0.01 \text{ mg KOH/g}$
viii.	Interfacial Tension	$\geq 40 \text{ mN/m}$


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x.	Tan Delta at 90°C	≤ 0.005
xi.	Corrosive Sulphur	Non-corrosive
xii.	PCB Content	Nil

6. Test

Routine Tests: BDV, Moisture, Acidity, Density, Flash Point
Type Tests: Oxidation Stability, Corrosive Sulphur, IFT, Tan Delta
Special Tests (if required): DGA, Furan Analysis, Particle Count.

7. Sampling

Sampling shall be carried out as per IS 6855.

8. Packing and Delivery

- i. Oil shall be supplied in sealed MS drums with proper labeling and protection against contamination.
- ii. Manufacturer's Name and Trade Mark.
- iii. Grade/Type of Oil (e.g., Uninhibited Mineral Oil).
- iv. Batch Number and Date of Manufacture.
- ii. Quantity in Litres.

9. Documentation

Supplier shall provide test certificates, MSDS (Material safety data sheet) and conformity certificate.

10. Inspection and Acceptance

Inspection may be conducted at manufacturer works or site. Acceptance subject to successful testing.

11. Safety

Oil shall comply with environmental regulations and be PCB-free.

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Guaranteed Technical Particulars for Transformer Insulating Oil

S. No.	Parameter	Unit	Requirement
1	Type of Oil	—	Mineral Insulating Oil
2	Standard Compliance	—	IS 335:2018 / IEC 60296
3	Oil Type	—	Inhibited
4	Inhibitor Type	—	DBPC
5	Inhibitor Content	%	0.2 – 0.4
6	Appearance	—	Clear, free from sediments
7	Density at 20°C	g/cm ³	≤ 0.895
8	Kinematic Viscosity at 40°C	cSt	≤ 12
9	Flash Point (PMCC)	°C	≥ 135
10	Pour Point	°C	≤ -10
11	Breakdown Voltage (BDV)		
i	As delivered	kV (rms)	≥ 30 (2.5 mm gap)
ii	After filtration	kV (rms)	≥ 70 (2.5 mm gap)
12	Water Content	ppm	≤ 30
13	Acidity (Neutralization Value)	mg KOH/g	≤ 0.01
14	Interfacial Tension (IFT)	mN/m	≥ 40
15	Dielectric Dissipation Factor (tan δ at 90°C)	—	≤ 0.005
16	Oxidation Stability	—	As per IS/IEC
17	Corrosive Sulphur	—	Non-corrosive
18	PCB Content	—	Nil (PCB-free)
19	Moisture Resistance	—	High
20	Sludge Formation Tendency	—	Low
21	Packing	—	MS Drums
22	Test Certificates	—	To be provided
23	MSDS Availability	—	To be provided
24	Certificate of Conformity	—	To be provided
25	Sampling Standard	—	IS 6855

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