

E-TENDER NOTICE

**OFFICE OF THE CHIEF ENGINEER (O&M)
POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD.
GARHWAL ZONE, 26- CIVIL LINES, ROORKEE**

**SUPPLY OF EHV GRADE TRANSFORMER OIL AGAINST E-TENDER
SPECIFICATION NO. CE/GZR-14/2018-19**

S. No.	DESCRIPTION	DETAIL
1.	Tender No.	CE/GZR-14/2018-19
2.	Name of Supply/Work	Supply of EHV grade Transformer Oil
3.	Delivery/completion period	120 Days
4.	Price of Tender Document	Rs. 2000.00 + 18.00% GST i.e. Rs. 2360.00 (Non-refundable) in the shape of DD in favour of Superintending Engineer (O&M), Electricity Transmission Circle, Roorkee
5.	Earnest Money (EMD)	Rs. 1,24,000.00 (Rs. One Lac Twenty Four Thousand only) in the shape of FDR/TDR /CDR/B.G. duly pledged in the name of Superintending Engineer (O&M), Electricity Transmission Circle, Roorkee
6.	Last date of purchase of Bid Documents	Upto 15.00 Hrs on 08.04.2019
7.	Last Date for Submission of Bid	Up to 15.00 Hrs on 08.04.2019
8.	Date & Time of Opening of Technical Bid & Price Bid)	At 15.00 Hrs on 09.04.2019
9.	Address/Contact/Telephone No. & E-mail address of Tender issuing office.	Chief Engineer (O&M), PTCUL, 26 Civil Lines, Roorkee-247667 Tel. No. 01332-272256 Fax No. 01332-272315 E-mail: dc_pande@ptcul.org
10.	Type of Tender	Open Tender (E-Tender)

Note:- The Tender documents, Price Bid formats can be downloaded from website www.uktenders.gov.in after submitting the DD towards cost of Tender Documents in the office of Chief Engineer (O&M), Garhwal Zone, PTCUL, 26-Civil Lines Roorkee & on making online request by using user Id. Password of above website & class III digital signature.

All the tender documents will be carried out only through E-tendering mode and the bidder has to submit all his tender documents (Price Bid) in the e-tendering website <http://www.uktenders.gov.in> and in the mean time the bidders has to scan their Earnest Money Deposit (EMD) and all the pre-qualifying documents/Supporting Documents for uploading and also submit the hard copy to the office within the last date and time of tender.

1.0 Qualification Requirements of Bidders

- 1.1 To be qualified for award, the bidder shall provide following satisfactory evidence to the Owner of his capability and adequacy of resources:
- a) He is a qualified manufacturer/contractor who regularly manufactures/executes projects involving the equipments of the type specified and has adequate technical knowledge and practical experience (the Bidder shall submit documents defining legal status, registration and principal place of business; written power of attorney of the signatory of the bid to commit the bidder, performance record as manufacturer/contractor for supply and installation of materials and equipments similar nature even the last five years and details of works on hand in the past five years & contracts on hand.
 - b) He has adequate financial capability and stability to meet the financial obligations arising out of the scope of works (the Bidder shall submit minimum five years of their Profit & Loss Account and Balance sheet).
 - c) He has adequate field services organization to provide necessary filed installation and management services required to install, test and commission equipments/materials as required, in these specifications and documents
 - d) He has established organization and quality assurance programs to achieve the levels of performance and reliability during manufacturing and installation activities (The Bidder has to furnish details of key personnel in the organization, quality assurance plans & procedures and wherever applicable sources of supply for all equipments & materials bought out supported by documents supporting their technical capability).
 - e) In addition, the Qualifying Requirements if any, in the 'Special Conditions of Contracts' shall also be applicable.

2.0 Qualifying Criteria

2.1 Technical Criteria

This part covers technical conditions pursuant to the contract and will form an integral part of the contract. The following provisions shall supplement all the detailed technical specifications and requirement brought out in the accompanying technical specifications. The contractor's proposal shall be based on the use of equipment and material complying fully with the requirement specified herein. It is recognized that the contractor may have standardized on the use of certain components, materials, processes, or procedures different than those specified herein. Alternate proposals offering similar equipment based on the manufacturer's standard practice will also be considered, provided such proposals met the specified design, standards and performance requirement and are acceptable to the purchaser.

- a) The Bidder/Collaborator/JV Partner must have executed similar works i.e. he must have supplied EHV Grade Transformer Oil in the last Seven years and these works should be working satisfactorily. Certificate of completion, Agreement no., Amount of work done and schedule time of completion versus actual time of completion work not less the Rank of Executive Engineer of similar works should be submitted.
 - b) The bidder must comply the GTP of various items along with vendor name for supply of items in case of bought out items. All items should be type tested during last three (3) years.
 - c) It is binding to the bidders to submit all the supporting documents at the time of bid.
 - d) A copy of Pan of Form, GST No., EPF No. should be submitted at the time of bidding.
 - e) All material supplied & work carried out by the contractor as per BOQ.
- 2.2 The Tenderer either shall themselves be manufacturer/Importer of the Plant & Machinery to be used in the project or has tie up with reputed manufacturer in India or abroad
- 2.3 Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following;
- a) Three similar completed works costing not less than the amount Rs. 19.77 Lac.
Or
 - b) Two similar completed works costing not less than the amount Rs. 24.71 Lac.

Or

c) One similar completed work costing not less than the amount Rs. 39.53 Lac.

3.0 Financial Criteria:

1. **Minimum Annual Average Turnover-** The minimum annual average turnover of the tenderer for the best three years (36 months) out of the last five years should not be less than Rs. 74.12 Lac.

2. For Financial Qualification Criteria, lead partner of JV Firms should meet minimum 50% of Financial Qualification Requirement (FQR) and collectively meet total Financial Qualification Requirement of the respective tender. All partners of JV Firms should have the experience for activities of Construction/Manufacturing of items or equipments/ Supply of items or equipment or products, meant for transmission utilities only.

3. The balance sheet and all other financial documents attested/certified by CAs to substantiate fulfillment of FQR should be with UDIN failing which the tender will be summarily rejected without any further reference.

4.0 Additional Documents

Apart from various documents to be furnished along with the Bid as required in the GCC and ECC, the following documents/details are to be furnished by the Bidder:

1. GST Registration/Issuing authority.
2. Regn. No. under Shops & Estt. Act/issuing authority.
3. Details of Partners/Directors of the Firm/Company.
4. Experience record and details of orders pending/executed for various utilities.
5. Last five years Audited Accounts.
6. Detail of Manufacturing/Fabrication facilities.
7. Factory Registration/license details.
8. 'A' class contractor's license with validation.
9. Solvency certificate from Bank (up to 20%) of Bid value).
10. PAN No of the firm/ Company or PAN No of all its partner's in case of partnership firm or PAN No of the individual, in case of proprietorship.

TECHNICAL SPECIFICATION

1. Scope: This specification covers supply of EHV grade Transformer Oil conforming to following IS,IS-335-1993, IS-1448-1967, IS-1448-1976, IS-1448-1977, IS-6103-1971, IS-6104-1971, IS-6262-1971, IS-6792-1992, IS-12177-1987, IS-13557-1992, IS-13631-1992

2. The Oil shall be supplied in Brand new steel drums, (on non-returnable basis), epoxy coated lair tight, moisture and dust proof of 209 Liter capacity conforming to IS 1783/1983 with latest amendments thereof.

The transformer oil shall be manufactured strictly in accordance with standard specifications and Guaranteed Technical specifications. The guaranteed technical specifications of the transformer oil are given below;

Sl. No.	Particulars	Values
1.	Name of manufacturer	
2.	Country of manufacturer and shipment	
3.	Reference of Standard to which the transformer oil conform	IS:335/1993 and latest amendments thereof
4.	Oxidation stability i) Neutralization value after oxidation for 164 hours at 100 ⁰ C mg KOH/gm ii) Total sludge 164 hrs. at 100 ⁰ C % by weight (Max)	0.40 0.10
5.	Plash point Pensky Marten (Closed) ⁰ C	140
6.	Kinetics viscosity CST at 27 ⁰ C	27
7.	Pour Point ⁰ C(Max)	-6
8.	Dielectric Strength (Breakdown value) KV rms a) New unfiltered oil (Min) b) After filtration (Min)	40 60
9.	Neutralization value (Total acidity) (mg KOH/mg)	0.03
10.	Corrosive sulphur In terms of classification of copper strip.	Bi-corrosive
11.	Moisture contents (PPM)	20
12.	Density at 29.5 ⁰ C (gm/CC)	0.89
13.	Ageing characteristic after accelerated ageing (Open breaker method lwith copper catalyst) a) Specific resistance (resistivity) Ohm Cm i) At 27 ⁰ C ii) At 90 ⁰ C b) Dielectric dissipation factor (Tan Delta) at 90 ⁰ C c) Total acidity, mg/KOH/gm d) Total sludge value	2.5x10 ¹² 2.5x10 ¹² 0.20 0.05 0.05
14.	Specific resistance (Resistivity) Ohm Cm a) At 27 ⁰ C b) At 90 ⁰ C	35x10 ¹² 1500x10 ¹²
15.	Dielectric dissipation factor (Tan Delta) at 90 ⁰ C	0.002
16.	Interfacial tension Newton./m at 27 ⁰ C	0.04
17.	Presence Oxidation Inhibitor	Not present
18.	Appearance	Clear and transparent free from suspended matter or sediments.
19.	Colour of oil	ASTM 20
20.	Reference of standard to which the barrel conform	IS: 1783/1983
21.	Capacity of the standard barrel	209 Liter
22.	Colour and type of paint painted on the outside surface of barrel	Blue
23.	Particular of the arrangement of making the drum air tight, moisture and dust proof	Tri-sure bunds are fitted on drums and cap sealed of seema and trisure.
25.	Weight of drum without oil	21 to 23 kg.
26.	Weight of drum with oil	201 to 209 kg.

27.	Weight of oil	186.01 kg.
28.	Volume of oil in each drum	209 Liter.