





**ODISHA POWER TRANSMISSION CORPORATION LTD.  
REGD. OFFICE: JANPATH, BHUBANESWAR – 751 022,**

**e-TENDER NOTICE NO 40 / 2015-16**

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD, Sr.G.M. [C.P.C.] invites Tenders from reputed manufacturers in two part bidding system for supply of 300 KL EHV Grade Naphthalene base Transformer oil. The interested bidders would be required to enroll themselves on the tender portal [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) Complete set of bidding documents are available at [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) from **15.03.16 (10.00 hrs.) to 12.04.2016 (12:45 hrs.)** Interested manufacturers may visit OPTCL's official web site <http://www.optcl.co.in> and [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) for detail specification.

N.B:- All subsequent addendums/corrigendum to the tender shall be hosted in the OPTCL's official web site <http://www.optcl.co.in> and [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) only.

SENIOR GENERAL MANAGER [C.P.C.]



**NOTICE INVITING TENDER**

**ODISHA POWER TRANSMISSION CORPORATION LTD**

**REGD. OFFICE: JANPATH, BHUBANESWAR – 751 022**

**e-TENDER NOTICE NO- 40/2015-16**

For and on behalf of the ODISHA POWER TRANSMISSION CORPORATION LTD., the undersigned invites bids under two-part bidding system in e- tendering mode only as per the following details.

Sl. No	Tender Specification No	Description of materials.	Delivery schedule.	Qty in Nos	INDIAN RUPEES			Last date of submission & Date of opening of Tender
					Earnest Money Deposit	Cost of Tender Spec. Document	Tender Processing Fee	
1.	Sr.G.M-CPC-Naphthalene base Transformer oil	Supply of EHV Grade Naphthalene base Transformer oil	(As per Annexure of Technical specification) i.e. 4 months from issue of P O	300 KL	Rs 2,17,170/	Rs.10000/ + Rs 500/- (Non-refundable including VAT @5%)	Rs.5,725/-	Up to 12.04.2016 (13.00 Hrs.) & on 12.04.2016 at 15.00 Hrs.

The bidders can view the tender documents from website free of cost.

The bidders who want to submit bid shall have to pay Rs. 10,500/- (Rupees ten thousand five hundred ) only nonrefundable including VAT @ 5%) towards the tender cost, in the form of Demand draft/Cash only, drawn in favour of the D.D.O Head QRS, OPTCL, Bhubaneswar.

The bidders shall have to pay nonrefundable amount of Rs. 5,725/- (Rupees five thousand seven hundred & twenty-five only) towards the tender processing fee to K.S.E.D.C. Ltd, in e-payment mode. The e-payment of above amount is to be made to enable the bidder to download the bid proposal sheets and bid document in electronic mode. The bidder shall deposit the tender cost, tender processing fee & EMD amount prior to last date & time for submission of bid as per the tender notice.

The bidders shall scan the Demand Draft/Pay order/ Bank guarantee, towards EMD/ notarised hard copy of valid registration as **Local (In the state of Odisha) MSE**(if any) and upload the same in the prescribed form in .pdf format only in addition to sending the original as stated above.

The prospective bidders are advised to register their user ID, Password, company ID from website [www.tenderwizard.com](http://www.tenderwizard.com)/OPTCL by clicking on hyper link "Register Me".

Any clarifications regarding the scope of work and technical features of the project can be had from the undersigned during office hours.

***Minimum qualification criteria of bidders: AS STIPULATED IN SECTION-II, PART-I (G.T.C.C) OF THE TENDER SPECIFICATION.***

**SENIOR GENERAL MANAGER  
CENTRAL PROCUREMENT CELL**



**PART – I**

**SECTION – I**

**INSTRUCTIONS TO TENDERERS**

<b><u>Clause.</u></b>	<b><u>Title.</u></b>	<b><u>Page.</u></b>
1.	Submission of Bids.	06
2.	Division of Specification.	07
3.	Tenders shall be in two parts.	07
4.	Opening of Bids.	07
5.	Purchaser's right regarding alteration in Quantities, Tendered.	07
6.	Procedure and opening time of tenders.	08
7.	Bidder's liberty to deviate from specification.	08
8.	Eligibility for submission of bids.	08
9.	Purchaser's right to accept/reject bids.	08
10.	Mode of submission of tenders.	08
11.	Earnest money deposit.	08 &09
12.	Validity of the bids.	09
13.	Price.	09
14.	Revision of Tender Price by Bidders.	09
15.	Tenderers to be fully conversant with the clauses of the Specification.	09
16.	Documents to accompany Bids.	09 &10
17.	Documents/Papers to Accompany PART – II Bid.	10
18.	Conditional Offer.	10
19.	General.	10
20.	Expenses in respect of OPTCL's representative for witnessing the inspection & testing of the offered Equipment/materials at the inspection and testing site.	10 &11

## COMMERCIAL SPECIFICATION

### PART-I

#### SECTION-I

#### INSTRUCTIONS TO TENDERER

##### 1. Submission of Bids: -

The bidder shall submit the bid in Electronic Mode only i.e. [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL). The bidder must ensure that the bids are received in the specified website of the OPTCL by the date and time indicated in the Tender notice. Bids submitted by telex/telegram will not be accepted. No request from any bidder to the OPTCL to collect the Bids in physical form will be entertained by the OPTCL.

The OPTCL reserves the right to reject any bid, which is not deposited according to the instruction, stipulated above. The participants to the tender should be registered under ODISHA Sales Tax, Act, VAT Act / Central sales Tax Act.

1. For all the users it is mandatory to procure the Digital Signatures.
2. Contractors / Vendors / Bidders / Suppliers are requested to follow the below steps for Registration:
  - a. Click "Register", fill the online registration form.
  - b. Pay the amount of Rs. 2290/- through e- payment mode only in Favour of KSEDCL Payable at Bangalore.
  - c. Send the acknowledgment copy for verification.
  - d. As soon as the verification is being done the e-tender user id will be enabled.
3. After viewing Tender Notification, if bidder intends to participate in tender, he has to use his e-tendering User Id and Password which has been received after registration and acquisition of DSCs (Digital Signature Certificates).
4. If any Bidder wants to participate in the tender he will have to follow the instructions given below:
  - a. Insert the PKI (which consist of your Digital Signature Certificate) in your System.  
(Note: Make sure that necessary software of PKI be installed in your system).
  - b. Click / Double Click to open the Microsoft Internet Explorer (This icon will be located on the Desktop of the computer).
  - c. Go to Start > Programs > Internet Explorer.
  - d. Type [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) in the address bar, to access the Login Screen.
  - e. Enter e-tender User Id and Password, click on "Go".
  - f. Click on "Click here to login" for selecting the Digital Signature Certificate.
  - g. Select the Certificate and enter DSC Password.
  - h. Re-enter the e-Procurement User Id Password
5. To make a request for Tender Document Bidders will have to follow below mentioned steps.
  - Click "Un Applied" to view / apply for new tenders.
  - Click on Request icon for online request.
6. After making the request Bidders will receive the Tender Documents which can be checked and downloaded by following the below steps:
  - Click to view the tender documents which are received by the user.
  - Tender document screen appears.
  - Click "Click here to download" to download the documents.
7. After completing all the formalities Bidders will have to submit the tender and they must take care of following instructions.
  - Prior to submission, verify whether all the required documents have been attached and uploaded to the particular tender or not.
  - Note down / take a print of bid control number once it displayed on the screen
8. Tender Opening event can be viewed online.
9. Competitors bid sheets are available in the website for all.
10. **For any e-tendering assistant contact help desk number mentioned below.**
  - Bangalore – 080- 40482000.

The participants to the tender should be registered under ODISHA Sales Tax, Act, VAT Act/Central sales Tax Act.

**2. Division of Specification.**

The specification is mainly divided into two parts viz. Part-I & Part-II.

**Part-I Consists of**

- |                   |   |
|-------------------|---|
| [i] Section-I     | Instruction to Tenderers.               |
| [ii] Section-II   | General Terms & conditions of contract. |
| [iii] Section-III | Schedules and forms etc.                |
| [iv] Section-IV   | Technical Specification.                |

**Part-II Consists of**

- [i] Schedule of prices as per Annexure-V

**3. Tenders shall be in Two Parts.**

The Tenderers are required to submit the tenders in two parts viz. Part-I (Techno commercial) & Part-II (Price bid).

The Tenderers are required to submit the tenders in two parts Part-I “Technical and commercial” and Part-II “Price Bid”.

**4. Opening of Bids.**

[a] The part-I shall be opened on the date and time fixed by the OPTCL for opening of bids in Electronic mode in presence of such of the Tenderers or their authorized representatives [limited to one person only] on the due date of opening of tender who opt remain present. After scrutiny of the technical particulars and other commercial terms, clarifications, if required, shall be sought for from the bidders. The Tenderers shall be allowed 15 days’ time for such activity.

[b] On receipt of technical clarification, the bids shall be reviewed, evaluated and those not in conformity with the technical Specification / qualifying experience, shall be rejected. If any of the technical proposals requires modification to make them comparable, discussion will be held with the participating bidders.

All the responsive bidders shall be given opportunity to submit the revised technical and revised price proposals as a follow up to the clarification (modification if any) on the technical proposals. The qualified bidders shall be given opportunity to submit revised price proposals within 15 days from the date of such discussion or within time frame mutually agreed, whichever is earlier.

[c] When the revised price proposals are received, the original price proposals will be returned to the bidders unopened along with their original technical proposals. Only the revised technical and price proposals will be considered for bid evaluation. The price bids [Part-II] of such of the Tenderers, whose tenders have been found to be technically and commercially acceptable, including those supplementary revised price bids, submitted subsequently, shall be opened in the presence of the bidder’s representative on a date and time which will be intimated to all technically and commercially acceptable Tenderers.

[d]The bidders are required to furnish sufficient information to the Purchaser to establish their qualification, capacity to manufacture and/or supply the materials/perform the work. Such information shall include details of bidder’s experience, its financial, managerial and technical capabilities.

[e]The bidders are also required to furnish details of availability of appropriate technical staff and capability to perform after sales services. The above information shall be considered during scrutiny and evaluation of bids and any bid which does not satisfactorily meet these requirements, shall not be considered for price bid evaluation.

[f]The price bids of the technically and otherwise acceptable bids shall only be evaluated as per the norms applicable in terms of this Specification.

**5. Purchaser’s Right Regarding Alteration of Quantities Tendered.**

The Purchaser may alter the quantities of materials/equipment at the time of placing orders. Initially the purchaser may place orders for lesser quantity with full freedom to place extension orders for further quantity under similar terms and conditions of the original orders. Orders may also be split among more than one tenderer for any particular item, if considered necessary in the interest of the Purchaser to get the goods/equipment earlier.

6. **Procedure and opening time of tenders.**

Tenders will be opened in the office of the Senior General Manager [C.P.C.] on the specified date and time in presence of the Tenderers or their authorized representatives [limited to one person only] in case of each bidder who may desire to be present, at the time of opening the bids.

7. **Bidder's Liberty to deviate from Specification.**

The Tenderer may deviate from the specification while quoting, if in his opinion, such deviation is in line with the manufacturer's standard practice and conducive to a better and more economical offer. All such deviations should however be clearly indicated giving full justifications for such deviation. [Read with Clause-9, Section-II of the Specification].

8. **Eligibility for submission of bids.**

Only those manufacturers who have deposited the cost of tender specification are eligible to participate in the tender. They should submit the money receipt as a proof of such payment. The Local (In the state of ODISHA) Micro and small Enterprises (MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC (Registered in Odisha) can participate without payment of the cost of tender specification

9. **Purchaser's right to accept/reject bids:**

The purchaser reserves the right to reject any or all the tenders without assigning any reasons what so ever if it is in the interest of OPTCL, under the existing circumstances. [Read with clause-10, Section-II of the specification].

10. **Mode of submission of Tenders.**

[A] Tenders shall be submitted in electronic mode only. (www.tenderwizard.com/OPTCL)

[B] **Telegraphic or FAX tenders** shall not be accepted under any circumstances.

11. **Earnest money deposit:**

The tender shall be accompanied by Earnest Money deposit of value specified in the notice inviting tenders against each lot / bid. Tenders without the required EMD as indicated at **Annexure-VIII** will be rejected out rightly.

The **Local (In the state of ODISHA) Micro and small Enterprises** (MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC (**Registered in Odisha**) can participate by submitting Earnest Money Deposit @ 50(fifty) percent of the amount indicated in the Notice Inviting Tender.

The earnest money deposit shall be furnished in one of the following forms subject to the conditions mentioned below:

- (a) **Cash:** - Payable to drawing & disbursing Officer, OPTCL (HQRS Office), Bhubaneswar - 751022
- (b) **Bank Draft:** -To be drawn in favour of Drawing & Disbursing Officer, OPTCL [HQRS Office], Bhubaneswar-751 022.
- (c) Bank Guarantee from any Nationalized/Scheduled Bank strictly as per enclosed proforma vide **Annexure-VI** to be executed on non-judicial stamp paper worth Rs.29.00 or as applicable, as per prevailing laws in force and also to be accompanied by the confirmation letter of the issuing Bank Branch.
- (d) National saving certificates duly pledged in favour of Senior General Manager [Central Procurement Cell] OPTCL {HQRS Office}, Bhubaneswar-751 022.
- (e) The non-judicial stamp paper should be purchased in favour of issuing Bank's Branch name , otherwise the EMD B.G cannot be accepted

**NOTE:**

- (i). The validity of the EMD in the form of Bank Guarantee shall be at least for 240 days from the date of opening of tender failing which the tender will be liable for rejection.
- (ii) No interest shall be paid on the Earnest Money Deposit.
- (iii) E.M.D. in shape of cash may be submitted up to Rs. 25,000/- (Rupees Twenty-five) Thousand) only. Above Rs. 25,000/- (Rupees Twenty-five thousand) the Earnest Money Deposit shall be



- furnished in any one of the forms indicated above (i.e. Through Bank Draft, Bank Guarantee/ National Savings Certificate).
- (iv) No adjustment towards EMD shall be permitted against any outstanding amount with the **ODISHA POWER TRANSMISSION CORPORATION LTD.**
  - (v) The chart showing particulars of EMD to be furnished by Tenderers of different categories is placed at **Annexure-VIII.**
  - (vi) In the case of un- successful tenderer, the EMD will be refunded after the tender is decided. In the case of successful Tenderer, this will be refunded only after furnishing of security money referred to a clause-19 of Section-II.
  - (vii) Suits, if any, arising out of this clause shall be filed in a Court of law to which the jurisdiction of High Court of ODISHA extends.
  - (vii) EMD will be forfeited if the tenderer fails to accept the letter of intent and/or purchase order issued in his favour or to execute the order, placed on them.
  - (viii) Tenders not accompanied by Earnest Money shall be disqualified.
12. **Validity of the Bids: -**  
The tenders should be kept valid for a period of 180 days from the date of opening of the tender, failing which the tenders will be rejected.
13. **PRICE: -**  
Tenderers are requested to quote-‘FIRM’ Price. No deviation from FIRM PRICE will be entertained irrespective of deviation clause No.7 of this part of the specification.
14. **Revision of tender price by Bidders: -**
- [a] After opening of tenders and within the validity of period, no reduction or enhancement in price will be entertained. If there is any change in price, the tender shall stand rejected and the EMD deposited shall be forfeited.
  - [b] After opening of price bid if the validity period is not sufficient to place purchase order, the tenderer may be asked by the purchaser to extend the validity period of the bid under the same terms and condition as per the original tender.  
However, the tender are free to change any or all conditions including price except delivery period of their bids at their own risk, if they are asked by the purchaser to extend the validity period of the bid prior to opening of price bid.
15. **Tenderers to be fully conversant with the clauses of the Specification: -**  
Tenderers are expected to be fully conversant with the meaning of all the clauses of the specification before submitting their tenders. In case of doubt regarding the meaning of any clause, the tenderer may seek clarification in writing from the Senior General Manager (Central Procurement Cell) OPTCL. This, however, does not entitle the Tenderer to ask for time beyond due date, fixed for receipt of tender.
16. **Documents to Accompany Bids.**  
Tenderers are required to submit tenders in the following manner:  
**Part-I of the Tender shall contain the following documents.**
- [i] Declaration Form. [As per Annexure-I]
  - [ii] (a) Earnest Money. [As per Annexure-VIII] (b) Tender Cost
  - [iii] Technical specification and Guaranteed Technical Particulars conforming to the Purchaser’s Specification along with drawings, literatures and all other required Annexures, duly filled in.
  - [iv] Photostat copies of type test certificates of materials/equipments offered as stipulated in the Technical Specification.
  - [v] Abstract of Terms & conditions in prescribed proforma as per **Annexure-II.**
  - [vi] General Terms & Conditions of supply offer as per Section-II of the Specification.
  - [vii] List of orders executed for similar materials/equipments during preceding 2 (two) years indicating the customer’s name, Purchase Order No. & Date, date of supply and date of commissioning etc.
  - [viii] Data on past experience **as per Clause-7 of Section-II** of the Specification.
  - [ix] Sales tax clearance certificate for the previous year. The permanent account number [PAN] of the firm is required under Income tax Act.
  - [x] Audited Balance sheet & profit loss accounts of the bidder, for past (3) three years.
  - [xi] Schedule of quantity and delivery in the prescribed Proforma vide **Annexure, as appended.**

- [xii] List of Orders in hand to be executed.
- [xiii] Deviation schedule.
- [xiv] Notarized hard copy and soft copy of valid registration as local (**In the state of Odisha**) MSE (if any).

[xv] Affidavit of Bidder

**17. Documents/Papers to accompany Part-II Bid.**

Part – II of the tender shall consist of the following

- (i) Schedule of prices in the prescribed pro-forma as per Annexure-V

**18. Conditional Offer:**

Conditional offer shall not be accepted.

**19. General: -**

- (i) In the event of discrepancy or arithmetical error in the schedule of price, the decision of the purchaser shall be final and binding on the Tenderer.
- (ii) For evaluation, the price mentioned in words shall be taken if there is any difference in figures and words in the price bid.
- (iii) Notice inviting tender shall form part of this specification.
- (iv) The price bids of the technically and otherwise acceptable bids shall only be evaluated. The EMD of others, if any, shall be returned to the bidders.
- (v) Tenderer can offer any lot or all the lots of the tender, if there is more than one lot. But the tender (bid) must be furnished separately for each lot. For each lot, the tenderer has to submit PART-I & PART-II of the bids separately.
- (vi) It should be distinctly understood that the part-II of the bid shall contain only details/documents relating to price, as outlined in clause-17 mentioned herein above. Inclusion of any of the documents/information etc. shall render the bid liable for rejection.
- (vii) The person signing the tender should sign on each page of the tender paper in acknowledgement of having gone through the entire tender specification & in agreement thereof. Tender papers not signed on each page with official seal by the bidder(s) shall not be considered.

**20.0 Expenses in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site.**

The testing and inspection of the equipment/ materials at manufacturer works are in the scope of work of the Contractor/Supplier. OPTCL inspecting officer, on receipt of offer for inspection from the contractor/supplier, proceeds to the manufacturer works to witness the Type/Acceptance/Routine test.

**Important:**

It is hereby informed to all the bidders that the relevant clauses of the contract specification, pertaining to inspection and testing of equipment/materials, are hereby supplemented with following additional terms and conditions.

The expenses under the following heads, in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site, shall be borne by the contractor / supplier.

**a) Hotel Accommodation:**

I. Single room accommodation in 4 star hotels for the OPTCL inspecting officer of the rank of Assistant General Manager (Grade E-6) and above.

II. Single room accommodation in 3 star hotels for the OPTCL inspecting officer of the rank below Assistant General Manager (Grade E-6).

**N.B.:** It is the responsibility of the contractor to arrange the hotel accommodation matching with their inspection and testing schedule, so that the inspecting officer can check-in the hotel one day prior to the date of inspection and check out after the completion of the inspection, subject to availability of the return travel ticket. In case of extended duration of inspection or non-availability of the return travel ticket, Contractor/supplier/manufacturer shall arrange for the extended stay of the inspecting officer in the Hotel accordingly. In case there is no hotel with prescribed standard in and around the place of

inspection, the contractor/supplier/manufacturer shall suggest alternative suitable arrangement at the time of offer for inspection, which is subjected to acceptability of OPTCL inspecting officer.

**b) Journey of the inspecting officer:**

(i) To and fro travel expenditure from the Head Quarters of the inspecting officer to the place of inspection/testing shall be borne by the contractor/supplier/manufacturer. Journey from the Head Quarters of the inspecting officer to the nearest Air Port by train (Ist / II nd A.C) & A/C Taxi then by Air to the place of inspection / testing or to the nearest place of inspection /testing and then by train (1<sup>st</sup>/2<sup>nd</sup> A.C) & A/C taxi to the place of inspection/testing shall be arranged by the contractor/supplier/manufacturer.

(ii) For train journey, inspecting officer of the rank Assistant General Manager and above shall be provided with 1st class AC ticket and inspecting officer below the rank of Assistant General Manager shall be provided with 2nd class AC ticket.

(iii) The Air-ticket / train-ticket booking/cancellation is the responsibility of the contractor / supplier.

(iv) More over if during the journey there is an unavoidable necessity for intermediate travel by road/ waterway/sea-route; the contractor/supplier shall provide suitable conveyance to the inspecting officer for travel this stretch of journey or bear the cost towards this. Any such possibilities shall be duly intimated to OPTCL at the time of their offer for inspection.

**c) Local Conveyance:**

At the place of the inspection/testing, for local journey of the inspecting officer between Hotel and inspection/testing site and or any other places, Air-conditioned four wheeler vehicle in good condition shall be provided by the contractor/supplier/manufacturer.

**d) Following points are also to be considered:**

(i) All the above expenses shall be deemed to be included in the bidder's quoted price for that supply item. Bidder shall not be eligible to raise any extra claim in this regard.

(ii) Contractor/supplier/manufacturer may assume that only in 40% of the inspection and testing offer cases, OPTCL inspecting officer, not below the rank of Assistant General Manager will witness the inspection and testing.

(iii) In case of inspection and testing of some critical equipment/materials like Power transformers, OPTCL may depute more than one inspecting officer.

(iv) Contractor/supplier/manufacturer shall judiciously plan the inspection/testing schedule and place of inspection/testing, so that optimum number of inspection/testing and minimum time shall be required to cover all the equipment/materials of the relevant contract package.

(v) It shall be the responsibility of the Contractor/Supplier to organize the above tour related matters of OPTCL inspecting officer including the matters related to overseas inspection/testing, if any.

## SECTION-II

### GENERAL TERMS AND CONDITIONS OF CONTRACT [G T C C]

**1. Scope of the contract:**

The scope of the contract shall be to design, manufacture, supply of equipments/materials as per the specification at the consignee's site, and rendering services in accordance with the enclosed technical specification and bill of quantity.

**2.0 Definition of terms:**

For the purpose of this specification and General Terms and Conditions of contract [GTCC], the following words shall have the meanings hereby indicated, except where otherwise described or defined.

2.1 "The Purchaser" shall mean the Senior General Manager [Central Procurement Cell] for and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., Bhubaneswar.

2.2 "The Engineer" shall mean the Engineer appointed by the Purchaser for the purpose of this contract.

2.3 "Purchaser's Representative" shall mean any person or persons or consulting firm appointed and remunerated by the Purchaser to supervise, inspect, test and examine workmanship and materials of the equipment to be supplied.

2.4 "The supplier" shall mean the Bidder whose bid has been accepted by the purchaser and shall include the Bidder's executives, administrators, successors and permitted assignees.

2.5 "Equipment" shall mean and include all machinery, apparatus, materials, and articles to be provided under the contract by the suppliers.

2.6 "Contract Price" shall mean the sum named in or calculated the bid.

2.7 "General Condition" shall mean these General Terms and Conditions of Contract.

2.8 "The Specification" shall mean both the technical as well as commercial parts of the specification annexed to or issued with GTCC and shall include the schedules and drawings, attached thereto as well as all samples and pattern, if any.

2.9 "Month" shall mean "Calendar month".

2.10 "Writing" shall include any manuscript, type written, printed or other statement reproduction in any visible form and whether under seal or under hand.

ii.1 "FOR Destination costs" shall mean the cost of equipment and material at the consignee's store/site. The cost is inclusive of Excise duty, Sales tax and other local taxes, packing, forwarding and insurance and freight charges.

2.12 The term "Contract document" shall mean and include GTCC, specifications, schedules, drawings, form of tender, Notice Inviting Tender, covering letter, schedule of prices or the final General Conditions, any special conditions, applicable to the particular contract.

2.13 Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian Contract Act, failing that in the Orissa General Clauses Act.

**3. Manner of execution:**

All equipments/materials supplied under the contract shall be manufactured in the manner, set out in the specification or where not set out, to the reasonable satisfaction of the Purchaser's representative.

**4. Inspection and Testing:**

[i] The purchaser's representative shall be entitled at all reasonable times during manufacture to inspect, examine and test at the supplier's premises, the materials and workmanship of all equipments/materials to be supplied under this contract and if part of the said equipment is being manufactured in other premises, the supplier shall obtain for the purchaser's representative permission to inspect, examine and test as if the equipment were being manufactured in the contractor's premises. Such inspection, examination and testing shall not release the supplier from his obligations under the contract.

[ii] The Supplier shall give to the purchaser adequate time/notice (at least clear 15 days for inside the state suppliers and 20 days for outside the state suppliers) in writing for inspection of materials indicating the place at which the equipment/material is ready for testing and inspection and shall also furnish the shop Routine Test Certificate, Calibration certificates of Testing instruments, calibrated in Govt. approved laboratory with authenticity letter of that laboratory along with the offer for inspection. A packing list along with the offer, indicating the quantity which can be delivered in full truck load/Mini truck load to facilitate issue of dispatch instruction shall also be furnished.

[iii]Where the contract provides for test at the Premises of the supplier or any of his sub-vendors, the supplier shall provide such assistance, labour, materials, electricity, fuel and instruments, as may be required or as may be reasonably demanded by the Purchaser's representative to carry out such tests efficiently. The supplier is required to produce shop routine test Certificate, calibration certificates of Testing Instruments before offering their materials/equipment for inspection & testing. The test house/ laboratory where tests are to be carried out must be approved by the Govt. A letter pertaining to Govt. approved laboratory must be furnished to the purchaser along with the offer for inspection.

[iv]After completion of the tests, the Purchaser's representative shall forward the test results to the Purchaser. If the test results conform to the specific standard and specification, the Purchaser shall approve the test results and communicate the same to the supplier in writing. The supplier shall provide at least five copies of the test certificates to the Purchaser.

[v]The Purchaser has the right to have the tests carried out at his own cost by an independent agency whenever there is dispute regarding the quality of supply.

[vi]If the firm fails to present the offered items for inspection/testing as per their inspection call due to any reason(s) during the visit of inspecting officer at the testing site, the firm shall have to bear all expenses towards repetition of inspection and testing of the total offered quantity or part thereof.

#### **5. Training facilities.**

The supplier shall provide all possible facilities for training of Purchaser's Technical personnel, when deputed by the Purchaser for acquiring first-hand knowledge in assembly of the equipment, its erection, commissioning and for its proper operation and maintenance in service, wherein it is thought necessary by the purchaser.

#### **6. Rejection of Materials.**

In the event any of the equipments/materials, supplied by the manufacturer is found defective due to faulty design, bad workmanship, bad materials used or otherwise not in conformity with the requirements of the Specification, the Purchaser shall either reject the equipment or ask the supplier in writing to rectify or replace the defective equipment free of cost to the purchaser. The contractor on receipt of such notification shall either rectify or replace the defective equipment free of cost to the purchase within 15 days from the date of issue of such notification by the purchaser. If the supplier fails to do so, the Purchaser may:-

[a]At its option replace or rectify such defective equipments/materials and recover the extra costs so involved from the supplier plus fifteen percent and/or.

[b]Terminate the contract for balance work/supplies, with enforcement of penalty Clause as per contract for the undelivered goods and with forfeiture of Performance Guarantee/Composite Bank guarantee.

[c]Acquire the defective equipment/materials at reduced price, considered equitable under the circumstances.

#### **7. Experience of Bidders:**

The Bidders should furnish information regarding experience particularly on the following points:

[i]Name of the manufacturer:

[ii]Standing of the firm and experience in manufacture of equipment/material quoted:

[iii]Description of equipment/material similar to that quoted, supplied and installed during the last **two** years with the name(s) of the Organization's to whom supplies were made wherein; at least one (1) certificate shall be from a **State/Central P.S.U.**

[iv] Details as to where supplied etc.

[v]Testing facilities at manufacturer's works.

[vi] If the manufacturer is having collaboration with another firm [s], details regarding the same.

[vii] A list of purchase orders of identical material/equipments/materials offered as per technical specification executed during the last two years along with user's certificate. User's certificate shall be legible and must indicate user's name, address, designation, place of use, and satisfactory performance of the equipment/materials for at least two years from the date of commissioning. Wherein at least one (1) Certificate shall be from a State/Central or P.S.U. Bids will not be considered if the past manufacturing experience is found to be un-satisfactory or is of less than 2 (two) years on the date of opening of the bid and bids not accompanying user's certificate will be rejected.

8. **Language and measures:**

All documents pertaining to the contract including specifications, schedule, notices, correspondence, operating and maintenance instructions, drawings or any other writing shall be written in English language. The metric system of measurement shall be used exclusively in this contract.

9. **Deviation from specification:**

It is in the interest of the Bidders to study the specification, specified in the tender schedule thoroughly before tendering so that, if any deviations are made by the Bidders, (both commercial and Technical), the same are prominently brought out on a separate sheet under heading "Deviations Commercial" and "Deviations Technical".

A list of deviations shall be enclosed with the tender. Unless deviations in scope, technical and commercial stipulations are specifically mentioned in the list of deviations, it shall be presumed that the Bidder has accepted all the conditions, stipulated in the tender specification, notwithstanding any exemptions mentioned therein.

10. **Right to reject/accept any tender:**

The purchaser reserves the right either to reject or to accept any or all tenders if the situation so warrants in the interest of the purchaser. Orders may also be split up between different Bidders on individual merits of the Bidder. The purchaser has exclusive right to alter the quantities of materials/equipment at the time of placing final purchase order. After placing of the order, the purchaser may defer the delivery of the materials. It may be clearly understood by the Bidder that the purchaser need not assign any reason for any of the above action [s]

11. **Supplier to inform himself fully:**

The supplier shall examine the instructions to Bidders, general conditions of contract, specification and the schedules of quantity and delivery to himself as to all terms and conditions and circumstances affecting the contract price. He shall quote price [s] according to his own views on these matters and understand that no additional allowances except as otherwise provided there in will be admissible. The purchaser shall not be responsible for any misunderstanding or incorrect information, obtained by the supplier other than the information given to the supplier in writing by the purchaser.

12. **Patent rights Etc.**

The supplier shall indemnify the Purchaser against all claims, actions, suits and proceedings for the infringement of any patent design or copy right protected either in the country of origin or in India by the use of any equipment supplied by the manufacturer. Such indemnity shall also cover any use of the equipment, other than for the purpose indicated by or reasonably to be inferred from the specification.

13. **Delivery:-**

[a] Time being the essence of the contract; the equipment shall be supplied within the delivery period, specified in the contract. The Purchaser, however, reserves the right to reschedule the delivery and change the destination if required. The delivery period shall be reckoned from the date of placing the Letter of Intent/Purchase order, as may be specified in LOI/Purchase order.

[b] The desired delivery period shall be as indicated at **Annexure-III (Quantity & Delivery Schedule) of Section-IV (Technical Specification).**

**14.**

**Despatch instructions.**

I] Equipment/material should be securely packed and dispatched directly to the specified site at the supplier's risk by Road Transport only.

II] **Loading & unloading of Ordered Materials.**

It will be the sole responsibility of the supplier for loading and unloading of materials both at the factory site and at the destination site/store.

The Purchaser shall have no responsibility on this account

15. **Supplier's Default Liability.**

[i] The Purchaser may, upon written notice of default to the supplier, terminate the contract in circumstances detailed hereunder.



[a] If in the judgement of the Purchaser, the supplier fails to make delivery of equipment/material within the time specified in the contract or within the period for which if extension has been granted by the Purchaser in writing in response to written request of the supplier.

[b] If in the judgement of the Purchaser, the supplier fails to comply with any of the provisions of this contract.

[ii] In the event, Purchaser terminates the contract in whole or in part as provided in **Clause-15 (i)** of this section, the Purchaser reserves the right to purchase upon such terms and in such a manner as he may deem appropriate in relation to the equipment/material similar to that terminated and the supplier will be liable to the Purchaser for any additional costs for such similar equipment/material and/or for penalty for delay as defined in **clause-22** of this section until such reasonable time as may be required for the final supply of equipment.

[iii] In the event the Purchaser does not terminate the contract as provided in **clause 15(i)** of this Section, supplier shall be liable to the Purchaser for penalty for delay as set out in **Clause-22** of this section until the equipment is accepted. This shall be based only on written request of the supplier and written willingness of the Purchaser.

**16. Force Majeure:**

The supplier shall not be liable for any penalty for delay or for failure to perform the contract for reasons of force majeure such as acts of god, acts of the public enemy, acts of Govt., Fires, floods, epidemics, Quarantine restrictions, strikes, Freight Embargo and provided that the supplier shall within **Ten (10)days** from the beginning of delay on such account notify the purchaser in writing of the cause of delay. The purchaser shall verify the facts and grant such extension, if facts justify.

**17. Extension of time:-**

If the delivery of equipment/material is delayed due to reasons beyond the control of the supplier, the supplier shall without delay give notice to the purchaser in writing of his claim for an extension of time. The purchaser on receipt of such notice may or may not agree to extend the contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract.

**18. Guarantee period: -**

[i] The stores covered by this specification should be guaranteed for satisfactory operation and against defects in design, materials and workmanship for a period of at least 18 [eighteen] months from the last date of delivery or 12 [twelve] months from the date of utilisation whichever is earlier. [The above guarantee certificate shall be furnished in triplicate to the purchaser for his approval]. Any defect noticed during this period should be rectified/replaced by the supplier free of cost to the purchaser provided such defects are due to faulty design, bad workmanship or bad materials used, within one month upon written notice from the purchaser failing which provision of **clause 22 (ii)** shall apply.

[ii] Material found defective during the guarantee period shall have to be guaranteed after repair/replacement for a further period of 18 [eighteen] months from the date of replacement or 12 [twelve] months from the date of utilisation whichever is earlier. The Bank Guarantee is to be extended accordingly. Date of delivery as used in this clause shall mean the date on which the materials are received in OPTCL'S stores/site in full & good condition which are released for Despatch by the purchaser after due inspection.

**19. B.G. towards security deposit, 100% payment and performance guarantee:**

[i] For manufacturers situated inside & outside the state of Orissa.

A Composite Bank Guarantee as per the Proforma enclosed at Annexure-VII of the specification for **10% [ten percent]** of the total FORD cost of the purchase order, shall be furnished from any nationalized/scheduled bank having a place of business at Bhubaneswar, to the office of **Sr. General Manager [Central Procurement Cell] OPTCL** within 15 days from the date of issue of the purchase order.

In case of successful bidder who is a Local (**In the state of Odisha**) Micro and small Enterprise (MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC (**Registered in Odisha**) 5% (five percent)) of the FORD cost of the purchase order shall be furnished from any nationalized/scheduled bank having a place of business at Bhubaneswar, to the office of **Sr. General Manager [Central Procurement Cell] OPTCL** within 15 days from the date of issue of the purchase order.

The BG shall be executed on non-judicial stamp paper (purchased in the name of the bank) worth of Rs.29.00 [Rupees twenty nine] only or as per the prevalent rules, valid for a period of 20 [twenty] month from the last date of stipulated delivery period, for scrutiny and acceptance, failing

which the supply order will be liable for cancellation without any further written notices. The BG should be accompanied by a confirmation letter from the concerned bank and should have provision for encashment at Bhubaneswar, before the Bank Guarantee is accepted and all concerned intimated. The Composite Bank Guarantee shall be valid for 20 [twenty] month from the last date of stipulated delivery period. The BG should be re validated as and when intimated to you to cover the entire guarantee period.

(ii) No interest is payable on any kind of Bank Guarantee.

[iii] In case of non-fulfillment of contractual obligation, as required in the detailed purchase order/Specification, the composite Bank guarantee shall be forfeited.

## **20. Import License**

In case imported materials are offered, no assistance will be given for release of Foreign Exchange. The firm should arrange to import materials from their own quota. Equipment of indigenous origin will be preferred.

## **21.**

### **(A) Terms of Payment.**

100% value of each consignment with 100% Excise duty, Entry Tax, if any, and sales tax in full shall be paid/reimbursed by OPTCL at the applicable rate at the time of despatch, schedules or actual, whichever is lower along with freight & Insurance charges will be paid on receipt of materials in good condition at stores/desired site and verification thereof, subject to furnishing and approval of Composite Bank Guarantee at the rate of 10% (Ten percent) of the cost of supplied materials, as stipulated under clause-19 of this specification & on prior approval of guarantee certificate & Test certificate by the Purchaser. **Any imposition of new tax or revision of tax shall be paid/reimbursement at the applicable rate at the time of despatch, schedules or actual, whichever is lower**(i.e. If delivery is within schedule period, tax variation is applicable, and if delivery is made beyond schedule date, any additional financial implication due to statutory variation in tax shall be to bidder's account).

### **(B) Payment of Freight & Insurance charges and Entry Tax.**

Freight & Insurance Charges & Entry Tax, incorporated in the Purchase contract shall be paid after receipt of materials at stores/desired site in good condition and on production of authenticated documentary evidence, otherwise no Freight, Insurance charges & entry taxes shall be payable.

**(C)** The supplier shall furnish Composite Bank Guarantee of appropriate amount to OPTCL covering 10% of F.O.R. Destination cost of the purchase order well in advance (within 15 days from the date of issue of the purchase order) before despatch of materials.

## **22. Penalty for Delay in Completion of Contract**

I) If the Supplier fails to deliver the materials/equipments/materials within the delivery schedule, specified in the contract including delivery time extension, if any, granted there to, the Purchaser shall recover from the Supplier, penalty for a sum of half percent (0.5 percent) of the Ex-works price of the un-delivered equipment for each calendar week of delay or part thereof. For this purpose, the date of receipted challan shall be reckoned as the date of delivery. The total amount of penalty shall not exceed five percent (5%) of the ex-works price of the unit or units so delayed. Equipment will be deemed to have been delivered only when all its components and accessories as per technical Specification are also delivered. If certain components & accessories are not delivered in time, the equipment will be considered delayed until such time as the missing parts are delivered.

II) If the Supplier fails to rectify /replace the equipment/material within 30 days from the date of intimation of the defect, so noticed by the purchaser within the guarantee period then the penalty for sum of one half of the one percent (0.5%) of the total Purchase order amount for each calendar week of delay shall be recovered by the purchaser within the guarantee period. For this purpose, penalty date will start from the 30<sup>th</sup> day from the date of issue of letter on defectiveness of equipment/material, so supplied, by the purchaser. The total amount of penalty in this case shall not exceed 10% (TEN PERCENT) of the purchase order amount. The purchase order amount shall mean ex-works price + freight & insurance and all taxes & duties. If the defects so intimated will not be rectified by the supplier within the guarantee period, then whole of the B.G. will be forfeited by the purchaser, without any intimation to the Supplier.



**23. Insurance**

The Supplier shall undertake insurance of stores covered by this Specification unless otherwise stated. The responsibility of delivery of the stores at destination in good condition rests with the Supplier. Any claim with the Insurance Company or transport agency arising due to loss or damage in transit has to be settled by the supplier. The Supplier shall undertake free replacement of materials damaged or lost, which will be reported by the consignee within 30 days of receipt of the materials at destination without waiting for the settlement of their claims with the carriers and underwriters.

**24. Payment Due from the Supplier.**

All costs and damages, for which the supplier is liable to the purchaser, will be deducted by the purchaser from any money, due to the supplier, under any of the contract (s), executed with OPTCL.

**25. Sales Tax clearance certificate and Balance sheet and profit & Loss Account:**

- i. Sales Tax clearance certificate for the previous year shall be enclosed with the tender.
- ii. Audited Balance Sheet and Profit & Loss Account of the Bidder for the previous three years shall be enclosed to assess the financial soundness of the Bidder(s).

**26. Certificate of Exemption from Excise Duty/Sales tax.**

Offers with exemption from Excise duty including sales tax shall be accompanied with authenticated proof of such exemption. Authenticated proof for this clause shall mean attested Photostat copy of exemption certificate. Any claim towards Excise duty/ Sales Tax shall be paid on actual basis subject to production of authenticated documentary evidence.

**27. Contractors/Supplier's Responsibility.**

Notwithstanding anything mentioned in the Specification or subsequent approval or acceptance by the Purchaser, the ultimate responsibility for design, manufacture, materials used and satisfactory performance shall rest with the Bidders. The Supplier(s) shall be responsible for any discrepancy noticed in the documents, submitted by them along with the bid(s)

**28. Validity**

Prices and conditions contained in the offer should be kept valid for a minimum period of **180(one hundred eighty)** days from the date of opening of the tender, failing which the tender shall be rejected.

**29. EVALUATION.**

**(I)** Evaluation of bids will be on the basis of the FOR DESTINATION PRICE (By Road Transport) including Excise Duty, sales Tax & other levies as may be applicable.

The FORD PRICE shall consist of the following components

- a) Ex-works price.
- b) Packing & Forwarding charges.
- c) Freight
- d) Insurance.
- e) Excise Duty.
- f) Sales Tax.
- g) Other levies.
- h) Mandatory spares, if any for maintenance of equipment. (At the discretion of the purchaser)
- i) Test charges, if any.
- j) Supervision of erection, testing and commissioning charges, if any.
- k) Any other items, as deemed proper for evaluation by the purchaser.
- l) Loading factors will be taken in to account during evaluation if the prices of some of the items not quoted.
- m) Any imposition of new tax or revision of tax shall be considered at the time of price bid evaluation.

\* The Final ranking of the eligible Bidders for supply of 300 KL Naphthalene Base Transformer oil shall be on the basis of Total cost at **(I) as indicated above.**

**(II) Weightage shall be given to the Following factors in the Evaluation & Comparison of Bids.**

In comparing bids and in making awards, the Purchaser will consider other factors such as compliance with Specification, **minimum qualification criteria as per clause-30, outright rejection of tenders clause-34 of this tender**, relative quality, adaptability of Supplies or services, experience, financial soundness, record of integrity in dealings, performance of materials/equipments/materials earlier supplied, ability to furnish repairs and maintenance services, the time of delivery, capability to perform including available facilities such as adequate shops, plants, equipment and technical organisation.

**(III)** The local MSE bidders shall be required to furnish their willingness to match their bid price with that of the lowest evaluated bidder without any price preference and in case they agree, they shall be eligible to get up to 30% of the tendered quantity to be distributed suitably among the willing MSE bidders failing which the said 30% of the tendered quantity be awarded to the lowest evaluated bidder.

**30. Qualification Criteria of Bidders.**

**(The following supersedes any other criteria indicated elsewhere in the document)**

**QUALIFYING REQUIREMENTS**

**All the prospective bidders are requested to note that their bids for tendered material (equipment) can only be considered for evaluation if:**

This section covers the requirements with respect to experience, capability and other particulars of the bidder to be considered eligible for participation in the bid for the proposed work. The BIDDER shall become eligible to bid on satisfying the following "BID QUALIFICATION REQUIREMENTS" and on production of the required documentary evidences along with the Tender.

1. The bidder should have manufacture and supply experience of offered / quoted materials for a minimum period of **2 (two)** years as on the date of opening of the tender.
2. At least 50% of the tendered quantity of above rated or higher capacity material should have been supplied within the above-stipulated period. At least **1(one)** of the performance certificates shall be submitted from Govt. of India/State Govt. (s) or their undertakings.
3. The Bidder must possess bureau of Indian Standard Certification (ISI mark).
4. The bidder must possess valid ISO 9001:2008 certification for Manufacturer/Supplier.
5. The Bidder should have adequate infrastructural facility for "After sales service"
6. Copies of documents, defining the constitution or legal status, place of registration and principal place of business of the company or firm or partnership or collaborator or parent Company etc. shall be furnished along with the bid.
7. The Bidder should have conducted type tests on the tendered equipments/materials in Government approved laboratory within five years from the date of opening of the tender.
8. Even though the Bidders meet the above qualifying criteria, they are subject to be disqualified if they have
  - a) Made misleading or false representations in the forms, statements and attachments, submitted in proof of qualification requirements and/ or
  - b) Record of poor performance such as not properly completing the contract, inordinate delays in completion of supply, litigation history or financial failure etc.
9. Notwithstanding anything stated above, the purchaser reserves the right to assess the Bidder's capability & capacity to perform the contract should circumstances warrant such an assessment in the overall interest of the purchaser.

**NOTE:** The offers of bidders not satisfying any of the above "bid qualification requirements" are likely to be rejected.

### **31. Jurisdiction of the High Court of Odisha.**

Suits, if any, arising out of this contract shall be filed by either Party in a court of Law to which the jurisdiction of High court of Orissa extends.

### **32. Correspondences.**

- i) Any notice to the supplier under the terms of the contract shall be served by Registered Post or by hand at the Supplier's Principal Place of Business.
- ii) Any notice to the Purchaser shall be served at the Purchaser's Principal Office in the same manner.

### **33. Official Address of the Parties to the Contract**

The address of the parties to the contract shall be specified:-

[i] **Purchaser:** Senior General Manager (Procurement)(CPC) OPTCL

Bhubaneswar-751022 (Orissa) Telephone No. 0674 – 2541801 FAX No.0674 – 2542964

[ii] **Supplier:** Address

Telephone No

Fax No.

### **34. Outright Rejection of Tenders**

Tenders shall be outright rejected if the followings are not complied with.

- [i] The tenderer shall submit the bid in electronic mode only and shall submit the tender cost on or before the date and time of submission of technical bid.
- [ii] The tenderer shall submit the bid in electronic mode only. In case of local Micro and small Enterprises(MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC (**Registered in Odisha**)participating in the tender they have to submit notarised hard copy of valid registration as local MSE as above on or before the date and time of submission of technical bid.
- [iii] The Tender shall not be submitted telegraphically or by FAX.
- [iv] The prescribed EMD shall be submitted on or before the date and time of submission of technical bid.
- [v] The Tender shall be kept valid for a minimum period of 180 days from the date of opening of tender.
- [vi] The Tender shall be submitted in two parts as specified.
- [vii] The Tenders shall be accompanied by a list of major supplies affected prior to the date of opening of tender. Data of at least 2 (two) years shall be furnished.
- [viii] The tenderer shall upload the scanned copy of latest type test certificates (for the tests, carried out on the tendered equipments, being offered). Such type tests should have been conducted within last five years from the date of opening of this tender in a Government approved laboratory/CPRI in presence of any Government Organization's representative(s).
- [ix] The schedule of prices should be filled up fully to indicate the break-up of the prices including taxes and duties. Incomplete submission of this schedule will make the tender liable for rejection. Vide Clause-4(ii) of Part-II.
- [x] The Tenderer should quote 'FIRM' price only and the price should be kept valid for a minimum period of 180 days from the date of opening of the tender.
- (xi) The tenderer shall upload the scanned copy legibly written user's certificate to prove the satisfactory operation of the offered equipments/materials for a minimum period of 2 (two) years from the date of commissioning/use as per the tender specification. User's certificate shall include the detailed address of the user with Equipment/Material, Name and type as per this specification, number of years of satisfactory use/operation & date of issue of this user's certificate with official seal written in English only & clearly visible must be furnished. At least one of the user's certificates shall be from state or Central Govt. or their Undertakings.
- (xii) Guaranteed Technical particulars & Abstract of terms and Conditions should be filled in completely.

***At least one of the user's certificates shall be from state or Central Govt. or their Undertakings.***

**35. Documents to be treated as confidential.**

The supplier shall treat the details of the specification and other tender documents as private and confidential and these shall not be reproduced without written authorization from the Purchaser.

**36. Scheme/Projects**

The materials/equipment covered in this specification shall come under "O&M WORKS and/or CONSTRUCTION WORKS"

**37. EMPANELMENT OF BIDDERS:-** OPTCL may consider for empanelment of such Bidders and for such Equipments for which the Bidders will be found to be techno-commercially responsive against this Tender Specification. Such empanelment should be valid for a period of 02 (two) years from the date of opening of techno-commercial bids against this Tender. During the above period, OPTCL may ask for price bids as and when required by OPTCL. The Bidders are required to give their consent in their offers against the above tender for such empanelment. However, the Bidders are to note that such empanelment is not binding on the purchaser and the purchaser is free to take any other decision under the prevailing circumstances in the interest of OPTCL.

**38. CONTACTING THE PURCHASER: -**

(a) Subject to Clause No.4 (opening of bids) of part-I, Section-I (Instruction to Bidder), no Bidder shall contact the purchaser on any manner, relating to its bid, from the time of bid opening to the time of the contract is awarded.

(b) No effort shall be made by a Bidder to influence the purchaser in the purchaser's bid evaluation.

**[PAGE 21 to 34 ]**  
**SECTION – III**  
**[LIST OF ANNEXURES]**

The following schedules and proforma are annexed to this specification and contained in Section-III as referred to in the relevant clauses.

1	Declaration form	ANNEXURE-I
2	Abstract of terms and conditions to accompany Section-II of Part-I	ANNEXURE-II
3	Schedule of Quantity and Delivery	ANNEXURE-III
4	Abstract of price component [to accompany Part-II of this specification]	ANNEXURE-IV
5	Schedule of prices to accompany Part-II	ANNEXURE-V
6	Bank Guarantee form for earnest money deposit	ANNEXURE-VI
7	Composite Bank Guarantee form for security deposit, payment and performance	ANNEXURE-VII
8.	Chart showing particulars of E.M.D.	ANNEXURE – VIII
9.	Data on Experience	ANNEXURE – IX
10.	Schedule of spare parts.	ANNEXURE-X
11.	Schedule of Installations.	ANNEXURE-XI
12.	Deviation from specification(Technical)	ANNEXURE-XII(A)
13	Deviation from specification(Commercial)	ANNEXURE-XII(B)
14	Affidavit of Bidder	ANNEXURE-XIII

**ANNEXURE - I**  
**DECLARATION FORM**

To

The Sr. General Manager (CPC)  
OPTCL Head Qrs. BBSR, 751022

Sub: - Tender Specification No-\_\_\_\_\_

Sir,

1. Having examined the above specification together with terms & conditions referred to therein \* I/We the undersigned hereby offer to supply the materials/equipments covered therein complete in all respects as per the specification and General conditions, at the rates, entered in the attached contract schedule of prices in the Tender.
2. \* I/We hereby undertake to have the materials/equipments delivered within the time specified in the Tender.
3. \* I/We hereby guarantee the technical particulars given in the Tender supported with necessary reports from concerned authorities.
4. \* I/We certify to have submitted the bid electronically by remitting \*cash/money order/D.D./ remitting the cost of tender, herewith and this has been acknowledged by your letter/ money receipt No.                      Dated,
5. In the event of Tender, being decided in \*my/our favour, \* I/We agree to furnish the Composite B.G. in the manner, acceptable to ODISHA POWER TRANSMISSION CORPORATION LTD., and for the sum as applicable to \*me/us as per clause-19 of section-II of this specification within 15 days of issue of letter of intent/purchase order failing which \*I/We clearly understand that the said letter of Intent/Purchase order will be liable to be withdrawn by the purchaser, and the EMD deposited by us shall be forfeited by OPTCL.

Signed this day of 2016

Yours faithfully

Signature of the Tenderer  
with seal of the company

[This form should be dully filled in by the tenderer and uploaded at the time of submission of tender.]

\* (Strikeout whichever is not applicable).

## ANNEXURE-II

### ABSTRACT OF GENERAL TERMS AND CONDITIONS OF CONTRACT [COMMERCIAL] TO ACCOMPANY PART-

1(a)	(a) The tenderer shall submit the bid in electronic mode only and shall submit the tender cost on or before the date and time of opening of technical bid. In case of local (Odisha based) Micro and small Enterprises (MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC (Registered in Odisha) participating in the tender they have to submit notarized hard copy of valid registration as local MSE as above on or before the date and time of submission of technical bid. (b) Earnest money furnished. <b>(A)</b> Bank Guarantee, <b>(B)</b> Bank Draft.	
2	Manufacturer's supply experience including user's certificate furnished or not. [As per clause No.7 of Section-II.]	Yes/No
3(a)	Deviations to the specification if any [list enclosed or not] Commercial [As per clause-9 of the Section-II]	Yes/No
3(b)	Deviations to the specification if any [list enclosed or not] Technical. [As per clause-9 of the Section-II]	Yes/No
4	<b>Delivery:</b> - Whether agreeable to OPTCL's desired delivery period as indicated at Appendix-I (Quantity & Delivery Schedule) of Section-IV (Technical Specification).	Yes/No
5	<b>Guarantee:</b> - Whether agreeable to OPTCL's terms. [As per clause-18 of Section-II]	Yes/No
6	Whether agreeable to furnish Composite B.G. in case his tender be successful [As per clause-19 of Section-II]	Yes/No
7.	<b>Terms of payment:-</b> Whether agreeable to OPTCL's terms or not [As per clause-21 of Section-II]	Yes/No.
8.	Nature of price:- FIRM	Yes/No
9.	<b>Penalty:-</b> Whether agreeable to OPTCL's terms or not (As per clause-22 of Section-II)	Yes/No
10.	Whether STCC/ P&L A/C, Balance Sheet for the required period are furnished as per clause-25 of Section-II	Yes/No
11.	<b>Validity:</b> - Whether agreeable to OPTCL's terms or not [As per clause-28 of Section-II]	Yes/No
12.	Whether recent type test certificates from any Government approved laboratory are furnished or not. [As per clause-34[viii] of section-II]	Yes/No
13.	Whether guaranteed technical particulars in complete shape are furnished or not	Yes/No
14.	Whether dimensional design/drawings furnished or not	Yes/No
15.	Whether materials are ISI/ISO marked	Yes/No
16.	Manufacturer's name and its trademark.	Yes/No
17.	Whether registered under ODISHA Sales Tax Act. 1947	Yes/No
18.	Whether declaration form duly filled in furnished or not.	Yes/No.

**Place: -**

**Date: -**

**Signature of the Tenderer**  
with seal of the company

**ANNEXURE-III**  
**SCHEDULE OF QUANTITY AND DELIVERY**  
(To be filled up by the tenderer)

Sl.No.	Description of materials	Quantity required	Desired Delivery	Destination	Remarks.
1	Transformer oil Naphthalene Base	300 KL			

Place:

Signature of Tenderer  
with seal of Company.

Date:

**ANNEXURE-IV**  
**ABSTRACT OF PRICE COMPONENT [TO ACCOMPANY PRICE BID]**

1	Price basis	F.O.R. Purchaser's destination Stores/sites.
2	Packing & forwarding	
3	Rate of Insurance charges	
4	Rate of Freight charges	
5	Rate of excise duty	
6	Rate of sales Tax	
7	Rate of other taxes/levies /duties etc.	
8	Rate of entry tax.	
9.	Rate of Service Tax on supervision of erection testing and commissioning	
10.	Nature of price.	
11.	Whether MODVAT benefit if any, has been fully passed on to the purchaser.	Yes / No.

*Place*

Date:

Signature of Tenderer  
With seal of company

NB: - Abstract of price component shall be done for equipment/material offered, for testing & commissioning charges, if any. All the above prices will be taken during bid price evaluation.



**ANNEXURE-V**

Item Name	Item Description.	Qty	UOM	Supply in INR Rs					
				Unit (Ex Works/ Basic) Price in Rs.	Unit Packing & Forwarding Charges in Rs.	% E.D (Including cess)	% CST against C Form/VAT	Unit Freight in Rs.	Unit Insurance in Rs.
1	2	3	4	5	6	7	8	9	10

**SCHEDULE OF PRICES**

**TENDER SPECIFICATION No.**

Supply in INR Rs						Grand
Unit Exit Tax in Rs	% Entry Tax	Unit E.D	Unit CST/VAT	Unit Entry Tax	Unit Landing Cost	Total Landing amount in Rs
11	12	13	14	15	16	17

Signature of Tenderer  
Name, Designation and Seal

NB: -

1. The tenderer should fill up the schedule properly and in full **in Excel file in e-tender mode**. The tender will be rejected, if the schedule of price is submitted in incomplete form. No post tender correspondence will be entertained on break-up of prices. Also, the supplier should agree for delivery at sub-station site.
2. In case, where F&I components are not specifically indicated in this schedule, 5% of the ex-works price shall be taken towards F&I components for the purpose of comparison of price.
3. The Tenderer shall certify in the price bid that MODVAT benefit, if any, has been fully passed on to the purchaser while quoting the tender price.
4. Conditional offers will not be acceptable.
5. The bidder is to clearly indicate the period up to which the tax holidays are available to them.
6. Price bid in any other format will not be acceptable and the offer will be rejected.
7. Test charges (Routine/Type) if any, mandatory spares, if any, maintenance equipment charges, if any, as per Technical Specification, supervisory charges, if any, ( in case of equipments by taking 30 Man days) shall be indicated separately, row-wise.
8. All the above charges will be taken into account, during bid price evaluation.

**ANNEXURE-VI**

**PROFORMA FOR BANK GUARANTEE FORM FOR EARNEST MONEY DEPOSIT**

- Ref \_\_\_\_\_ Date \_\_\_\_\_ Bank Guarantee No: \_\_\_\_\_
- 1 In accordance with invitation to Bid No. \_\_\_\_\_ Dated \_\_\_\_\_ of ODISHA POWER TRANSMISSION CORPORATION LTD. [OPTCL][herein after referred to as the OPTCL for the purchase of \_\_\_\_\_
- Messers \_\_\_\_\_
- Address \_\_\_\_\_
- \_\_\_\_\_ wish/wished to participate in the said tender and as a Bank Guarantee for the sum of Rs. \_\_\_\_\_ [Rupees \_\_\_\_\_]
- Valid for a period of 240 days [Two hundred forty days] is required to be submitted by the Tenderer. We the \_\_\_\_\_ [Indicate the Name of the Bank]
- [Hereinafter referred to as 'the Bank'] at the request of M/S \_\_\_\_\_
- [Herein after referred to as supplier (s)] do hereby unequivocally and unconditionally guarantee and undertake to pay during the above said period, on written request by the Sr. General Manager [Procurement] ODISHA POWER TRANSMISSION CORPORATION LTD. \_\_\_\_\_ [Indicate designation of the purchaser]
- an amount not exceeding Rs. \_\_\_\_\_ to the OPTCL, without any reservation. The guarantee would remain valid up to 4.00 PM of \_\_\_\_\_ [date] and if any further extension to this is required, the same will be extended on receiving instructions from the \_\_\_\_\_ on whose behalf this guarantee has been issued.
2. We the \_\_\_\_\_ do hereby, further undertake [Indicate the name of the bank]
- to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the OPTCL stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the OPTCL by reason of any breach by the said supplier [s] of any of the terms or conditions or failure to perform the said Bid . Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_
3. We undertake to pay the OPTCL any money so demanded not withstanding any dispute or disputes so raised by the contractor [s] in any suit or proceeding instituted/pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the supplier(s) shall have no claim against us for making such payment.
4. We, the \_\_\_\_\_ further agree that the guarantee [Indicate the Name of the Bank]
- herein contained shall remain in full force and effect during the aforesaid period of 240 days [two hundred forty days] and it shall continue to be so enforceable till all the dues of the OPTCL under or by virtue of the said Bid have been fully paid and its claims satisfied or discharged or till Managing Director, ODISHA POWER TRANSMISSION CORPORATION LTD. certifies that the terms and

conditions of the said Bid have been fully and properly carried out by the said Supplier [s] and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the \_\_\_\_\_

we shall be discharged from all liability under this guarantee thereafter.

5. We, the \_\_\_\_\_ further agree with the OPTCL that

[Indicate the name of the Bank]

the OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Bid or to extend time of performance by the said Supplier [s] from time to time or to postpone for any time or from time to time any of the powers exercisable by the OPTCL against the said supplier [s] and to forbear or enforce any of the terms and conditions relating to the said bid

and we shall not be relieved from our liability by reason of any such variation, postponement or extension being granted to the said Supplier [s] or for any forbearance act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Supplier[s] or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the name, style and constitution of the Bank or the supplier [s].

7. We, \_\_\_\_\_ lastly undertake not to revoke this

[Indicate the name of the Bank]

Guarantee during its currency except with the previous consent of the OPTCL in writing.

8. We the \_\_\_\_\_ Bank further agree that this guarantee shall also be invocable at our place of business at ----- Branch of Bhubaneswar (indicate the name of the branch) in the state of ODISHA.

Notwithstanding anything contained herein.

1) Our liability under this bank guarantee shall not exceed Rs. ----- (Rupees-----).  
-----).

2) The bank guarantee shall be valid up to dt.-----

3) We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only & only if you serve upon us at -----branch of Bhubaneswar a written claim or demand on or before dt.-----.

Dated \_\_\_\_\_ Day of \_\_\_\_\_

For \_\_\_\_\_

[Indicate the name of Bank]

Witness (Signature, Names & Address)

- 1.
- 2.

ANNEXURE-VII

**PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT PAYMENT AND PERFORMANCE**

This Guarantee Bond is executed this \_\_\_\_\_ day of \_\_\_\_\_  
2015 by us the \_\_\_\_\_ Bank at \_\_\_\_\_  
P.O. \_\_\_\_\_ P.S. \_\_\_\_\_  
District \_\_\_\_\_ State \_\_\_\_\_

1. WHEREAS the ODISHA POWER TRANSMISSION CORPORATION LTD., a body corporate constituted under the Electricity Act, 2003 [hereinafter called "the OPTCL" which shall include its successors and assigns has placed orders No. \_\_\_\_\_ Date \_\_\_\_\_ [hereinafter called "The Agreement"] on M/s. \_\_\_\_\_ [Here in after called "The Supplier"] which shall include its successors & assigns for supply of materials?

AND WHERE AS the supplier has agreed to supply materials to the OPTCL in terms of the said agreement AND

WHEREAS the OPTCL has agreed [1] to exempt the supplier from making payment of Security [2] to release 100% payment of the cost of materials as per the said agreement and [3] to exempt from performance guarantee on furnishing by the Supplier to the OPTCL, a Composite bank Guarantee of the value of 10 % [ten percent] of the contract price of the said agreement.

NOW THEREFORE, in consideration of the OPTCL having agreed [1] to exempt the Supplier from making payment of Security [2] releasing 100% payment to the Supplier and [3] to exempt from furnishing performance guarantee in terms of the said agreement as aforesaid, we, the \_\_\_\_\_ [Bank][hereinafter referred to as 'the Bank'] do hereby undertake to pay to the OPTCL an amount not exceeding Rs. \_\_\_\_\_ [Rupees \_\_\_\_\_] against any loss or damage caused to or suffered by or would be caused to or suffered by the OPTCL by reason of any breach by the said Supplier [s] of any of the terms or conditions contained, in the said agreement.

2. We the ( \_\_\_\_\_ Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on demand from the OPTCL stating that the amount claimed is due by way of loss or damage caused to or suffered by the OPTCL by reason of any breach by the said Supplier [s] of any of the terms or conditions, contained in the said agreement or by reason of the supplier's failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_

3. We the \_\_\_\_\_ Bank} also undertake to pay to the OPTCL any money so demanded notwithstanding any dispute or disputes raised by the supplier [s] in any suit or proceeding instituted/pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Supplier [s] shall have no claim against us for making such payment.

4. We, ( \_\_\_\_\_ Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to do so enforceable till all the dues of the OPTCL under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Managing Director, ODISHA POWER TRANSMISSION CORPORATION LTD. certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said Supplier [s] and accordingly discharges this Guarantee.

Unless a demand or claim under this guarantee is made on us in writing on or before the [Date \_\_\_\_\_], we shall be discharged from all liability under this guarantee thereafter.

5. We, (\_\_\_\_\_ Bank) further agree that the OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Supplier [s] and we shall not be relieved from our liability by reason of any such variations or extension being granted to the said supplier [s] or for any forbearance, act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Supplier [s] or by any such matter or thing whatsoever which under the law relating to sureties would but these provisions have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the name, style and constitution of the Bank and supplier [s].

7. We, [\_\_\_\_\_ Bank] lastly undertake not to revoke this guarantee during its currency except with the previous consent of the OPTCL in writing.

8. We the \_\_\_\_\_ Bank further agree that this guarantee shall also be invokable at our place of business at ----- Branch of Bhubaneswar (indicate the name of the branch) in the state of ODISHA.

Notwithstanding anything contained herein.

1) Our liability under this bank guarantee shall not exceed Rs. ----- (Rupees-----).  
-----).

2) The bank guarantee shall be valid up to dt. -----

3) We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only & only if you serve upon us at -----branch at Bhubaneswar a written claim or demand on or before dt.-----.

Dated \_\_\_\_\_ Day of \_\_\_\_\_

For \_\_\_\_\_  
[Indicate the name of Bank]

Witness((Signature, names & address)

1.

2.

### ANNEXURE-VIII

#### CHART SHOWING PARTICULARS OF EARNEST MONEY DEPOSIT FURNISHABLE BY TENDERERS

1.	Central and State Government Undertakings	Exempted
2.	All other inside & outside state units.	The amount of EMD as specified in the specification /Tender Notice in shape of bank guarantee /DD.

**NB: - REFUND OF E.M.D.**

- [a] In case of unsuccessful tenderers, the EMD will be refunded immediately after the tender is decided. In case of successful tenderer, this will be refunded only after furnishing of Composite Bank Guarantee referred to in clause No.19 of Section-II of this specification.  
Suits, if any, arising out of EMD shall be filed in a court of law to which the jurisdiction of High Court of ODISHA extends.
- [b] Earnest Money will be forfeited if the tenderer fails to accept the letter of intent/purchase order, issued in his favour or revises the bid price[ s] within the validity period of Bid.

**ANNEXURE-IX**

*DATA ON EXPERIENCE*

- [a] Name of the manufacturer.
- [b] Standing of the firm as manufacturer of equipment quoted.
- [c] Description of equipment similar to that quoted [supplied and installed during the last two years with the name of the organizations to whom supply was made].
- [d] Details as to where installed etc.
- [e] Testing facilities at manufacturer's works.
- [f] If the manufacturer is having collaboration with another firm, details regarding the same and present status.
- [g] A list of purchase orders, executed during last three years.
- [h] A list of similar equipments of specified MVA rating, voltage class, Impulse level, short circuit rating, Designed, manufactured, tested and commissioned which are in successful operation for at least two years from the date of commissioning with legible user's certificate. User's full complete postal address/fax/phone must be indicated. (Refer clause No.7 of the Part-I, Section-II of the specification).

Place:

Date:

Signature of tenderer  
Name, Designation, Seal

**ANNEXURE-X**

**SCHEDULE OF SPARE PARTS FOR FIVE YEARS OF NORMAL OPERATION & MAINTENANCE**

SL. No	Particulars	Quantity	Unit delivery rate	Total price

Place:

Date:

Signature of Tenderer  
Name, Designation, Seal

**ANNEXURE-XI**  
**SCHEDULE OF INSTALLATIONS**

Rated MVA	Rated Voltage	Place of installation and complete postal address	Year of commissioning

Place: -  
Date

Signature of Tenderer:  
Name, Designation, Seal



**ANNEXURE-XII(A)**

**Deviation from the condition of contract (Technical)**

The tenderer shall enter below, deviation if any, from the conditions of contract as herein.

Sl. No.	Clause No. of Specification	Particulars of deviation

Date:

Place:

SIGNATURE OF TENDERER

NAME:

DESIGNATION:

(SEAL)

**ANNEXURE-XII(B)**

**Deviation from the condition of contract (commercial)**

The tenderer shall enter below, deviation if any, from the conditions of contract as herein.

Sl. No.	Clause No. of Specification	Particulars of deviation

Date:

Place:

SIGNATURE OF TENDERER

NAME:

DESIGNATION:

(SEAL)

# ANNEXURE-XIII

## **AFFIDAVIT OF BIDDER**

(To be submitted in a non-judicial stamp paper of appropriate value)

BEFORE Sri/ ..... , Notary, At-.....  
.....

### Affidavit

WHEREAS the Odisha Power Transmission Corporation Ltd., Bhubaneswar(OPTCL) has floated its Tender No.....inviting bids from eligible bidder to execute the work of.....

AND WHEREAS M/s..... (Briefly "Bidder") has offered its bid on .....in response to the said Tender No.....of the OPTCL expressing its interest to execute the work as specified therein.

AND WHEREAS the said Tender No..... of OPTCL requires the Bidder to solemnly affirm the correctness of the document and information furnished in its bid, so offered to OPTCL.

NOW THEREFORE, in response to the requirement, the Tender No..... of OPTCL, and having been duly authorized by the Bidder, I Sri/ Mrs. .... aged about ..... years, Son/Daughter/Wife of Sri/Mrs. ...., At present working as..... of M/s..... (The Bidder) do hereby solemnly affirm and state as follows:

1. That I am competent and have been duly authorized by the Bidder M/s..... to swear this affidavit on its behalf.
2. That the documents and information furnished by the Bidder in its bid offered in respect to the said Tender No.....of OPTCL are true and correct.
3. That in the event any document and information as furnished by the Bidder in response to the said Tender No of OPTCL is found/ considered by the OPTCL at any time as to be not correct/ wrong, the OPTCL shall be competent and at liberty without any show cause to the Bidder to terminate its contract/ agreement With the Bidder, if any.
4. The OPTCL shall also be competent, without any reference to the Bidder, to black list the Bidder and debar the Bidder from participating in any other Tender of OPTCL pursuant to its consideration/ finding that the Bidder has furnished any incorrect/ wrong document and information tendered/made pursuant to Tender No ..... of OPTCL.
5. That the affirmation made herein above is/are correct and true and nothing Stated herein is false.

Identified by  
**DEPONENT**

**ADVOCATE**

**SECTION-IV**  
**TECHNICAL SPECIFICATION**

Sl.No.	Item	Page
1.	Scope	
2.	Description of materials	
3.	Standards.	
4.	Climatic conditions.	
5.	Tests.	
6.	Guaranteed Technical Particulars.	
7.	Requirement of Transformer oil and desired period of delivery.	
8.	Specific experience of supplier.	
9.	Guarantee Technical particulars.	
10.	Additional Technical Particulars.	
11.	Schedule of requirement & Desired Delivery.	

## SECTION – IV

### TECHNICAL SPECIFICATION FOR EHV GRADE TRANSFORMER OIL NAPHTHENIC BASE

#### 1. SCOPE:-

This specification covers the manufacture, testing and delivery of EHV grade Transformer oil of Naphthenic\_Base (i.e. Naphthenic Content in oil will be more than 40% & Paraffinic content will be less than 56%) in the state of Odisha.

#### 2. DESCRIPTION OF MATERIALS:-

2.1 General: The oil shall be Naphthenic base (i.e. Naphthenic Content in oil will be more than 40 % & Paraffinic content will be less than 56 %), uninhabited, free from antioxidant additives. It shall be pure hydro-carbon mineral oil, clean and sufficiently free from moisture or other foreign matter likely to impair its properties.

2.2 Packing:- Supply shall be made in brand new non-returnable sealed drums of 200 Ltrs. Capacity, effectively sealed to exclude moisture and conforming to type 'A' or type 'B' to IS-1783/1983 and to the following requirements for transit by Road.

- (i) Thickness of steel sheet for body and ends of the drums shall be 1.25+/- 0.05mm
- (ii) Body shall be single sealed and welded (Electric/G).
- (iii) Bottom and top double sealed with body and the seams not welded.
- (iv) No. additional reinforcing rings for top and bottom shall be provided.
- (v) Two bungs shall be provided on the top of the drums, one small and the other large.
- (vi) The drums shall be painted in the supplier's standard colour.
- (vii) The drums shall have two corrugations on the body.
- (viii) The drums shall have phosphate cooling epoxy lacquer from inside and resistance to insulating and arrangement for sealing in the cap seals.
- (ix) The outside surface of the drum shall be coated with suitable primer and finishing paint or hot dip galvanized according to IS-4759 of 1979 for protection against atmospheric corrosion.

#### 2.3 Marking of the drums:

- i) Manufacturer's name or trade mark.
- ii) Quantity in liters.
- iii) Gross and net weights
- iv) Name of materials.
- v) The word "**LOW VISCOSITY TYPE**"
- vi) Identification in code or otherwise to enable the date and lot of manufacture to be traced back to the factory records.
- vii) **OPTCL LTD.** P.O. No. & Date.
- viii) ISI certification mark.
- ix) Sl. No. of drum and batch reference.

#### 3. STANDARDS:

The oil shall conform to IS-335 with its latest amendments; & other relevant standards pertaining to Naphthenic base oil & as per our scope as indicated above i.e. Naphthenic Content in oil will be more than 40% & Paraffinic content will be less than 56%.

4. **CLIMATIC CONDITIONS:**

The equipments using such oil are expected to operate under the following climatic conditions.

i)	Maximum ambient air temperature:	45 <sup>0</sup> C
ii)	Maximum daily average ambient air temperature:	35 <sup>0</sup> C
iii)	Maximum yearly average ambient air temperature	30 <sup>0</sup> C
iv)	Maximum temperature attainable by a body exposed to the	
v)	Minimum ambient air temperature	0 <sup>0</sup> C
vi)	Maximum relative humidity:	100%
vii)	Average number of thunder storm days per annum	70
viii)	Average number of rainy days per annum	120
ix)	Average annual rainfall per annum	150 cm
x)	Wind pressure	100Kg/M <sup>2</sup>
xi)	Altitude not exceeding	1000M
xii)	Degree of atmospheric pollution	Polluted

5. **TESTS:**

5.1 Sampling- Sampling of oil shall be done in accordance with IS-6855/1973 and its latest amendments.

5.2 Characteristics and Methods of Test: - The following characteristics of the oil shall be determined by the test methods indicated against each.

Sl.No.	Characteristics	Method of test.
1.	Appearance.	Shall be determined from a representative sample of the oil by examining a 100mm thick layer at 27 <sup>0</sup> C.
2.	Density at 29.5 <sup>0</sup> C	As prescribed in IS-1448 (P-16)/1990 As prescribed in IS-1448(P-25)/1976
3.	Kinematic Viscosity.	
	a) At 27 <sup>0</sup> C maximum	
	b) At sub-zero temperature.	
4.	Interfacial tension at 27 <sup>0</sup> C minimum	As prescribed in IS-6104/1971
5.	Flash point Pen sky – marten (closed)	As prescribed in IS-1448(P-21)/1992
6.	Pour point (Maximum)	As prescribed in IS-1448 (P-10)/1970
7.	Neutralization value.	As prescribed in IS-1448 (P-2)/1967
	(a) Total acidity (Maximum)	
	(b) Inorganic acidity/alkalinity.	
8.	Corrosive sulphur (In terms of classification of copper)	As prescribed in Annex-B of IS-335/1993
9.	Electric strength (breakdown voltage)	As prescribed in IS-6792/1992
10.	Dielectric dissipation Factor (tan delta)	As prescribed in IS- 6262/1971
11.	Specific resistance (resistively)	As prescribed in IS- 6103/1971
	(a) at 90 <sup>0</sup> C	
	(b) at 27 <sup>0</sup> C	
12.	Oxidation stability	
	(a) Neutralization value after oxidation	As prescribed in Annex-C of IS-335/1993
	(b) Total sludge after oxidation	
13.	Presence of oxidation inhibitor.	As prescribed in Appendix-D of IS-335/1983
14.	Water content (maximum)	As prescribed in Appendix –E.
15.	Base of oil.	Naphthenic Base.(Spectroscopic analysis )- As per CPRI procedure
16.	S.K Value	As per IS

### 5.3 Additional Requirement.-

- (a) The oil shall also undergo oxidation ageing test with copper catalyst by open breaker method as per ASTM-D-1934 after which the following characteristics shall be determined as in 5.2 and results indicated for our consideration:
- i) Resistivity at
    - (a) 90<sup>0</sup> C
    - (b) 27<sup>0</sup>
  - (ii) Dielectric dissipation factor at 90<sup>0</sup> C
  - (iii) Total acidity, mg KOH/g
  - (iv) Neutralization value
  - (v) Total sludge value.
- (b) Dissolved Gas Analysis, base of oil, presence of P.C.B content & other tests as indicated above (Clause 5.2 & 5.3) are to be carried out on the sample collected by the purchaser's representative at any CPRI or any other Govt. approved standard laboratory **at Supplier's Cost in presence of Purchaser's representative.**

### 5.4 General:

The routine /acceptance tests & additional tests as indicated above & inspection of details of drums including weight of drums, thickness, material, capacity & etc. , weights of oil (in Liters) in the oil filled drums , shall normally be conducted first at the supplier's/manufacturer's works in presence of purchaser's authorized representative(Inspecting Officer). If the test results are found satisfactory, the purchaser shall collect oil samples through his authorized representative; & both the oil samples & the offered oil drums for inspection are then to be sealed in presence of purchaser's authorized representative (Inspecting officer).

**During sealing of the offered drums ,inspecting officer will put his signature, seal & fix transparent cello tape such that his signature & seal can be verified by the field officers at the time of receipt of oil drums at store/site & the inspecting officer shall furnish a certificate in his inspection report that all the drums has been sealed with his signature The supplier will take all precautions such that the signature ,seal & transparent cello tape shall not be destroyed or torn up during transportation of oil drums.**

The sealed oil samples are then to be sent to CPRI, Bangalore or any other Govt. approved standard laboratory by the supplier for the tests as indicated above (at clause 5 of section –IV technical specification of the tender specification) at the Supplier's cost in presence of Purchaser's representative. For this purpose, supplier shall arrange necessary dates in advance for carrying out tests at CPRI, Bangalore or any other Govt. approved standard laboratory, immediately after the satisfactory tests at supplier's works. The materials shall be accepted only on receipt of satisfactory test results from CPRI or any other Govt. approved standard laboratory. The purchaser also reserves the right to have reasonable tests carried out at the time of receipt at OPTCL's stores/site.

- 5.5 **Rejection:** The transformer oil may be rejected at the discretion of the purchaser if the test results are not found satisfactory.
- 5.6 The bidders are requested to quote **FIRM** price only. Offer with variable price shall be rejected.
6. **GUARANTEED TECHNICAL PARTICULARS:**  
Guaranteed technical particulars as per the proforma at appendix shall be furnished along with the tender failing which the tender may be liable for rejection.
7. **REQUIREMENT OF TRANSFORMER OIL AND DESIRED PERIOD OF DELIVERY:**  
The approximate requirement of transformer oil and delivery schedule is furnished in **Schedule – I**
8. **SPECIFIC EXPERIENCE OF SUPPLIER:**
- 8.1 A list with address of manufacturer of EHT transformer and switchgear of 132 KV class and above to whom the tenderer have supplied should be enclosed in the offer. The grade of transformer oil of the manufacture shall be furnished along with quantity and year of supply. This will be considered towards the experience of the manufacturer. Unless the tender is accompanied by such list, it is liable for rejection.
- 8.2 Manufacturer should furnish quality assurance plan in their tender showing different stages of manufacture with check points at each of manufacture.

**APPENDIX**  
**GUARANTEED TECHNICAL PARTICULARS**  
**(METHOD FOR DETERMINATION AS IN PARA 5.2)**

Sl. No.	Characteristics	Requirement	To be filled by the bidder
1.	Appearance.	The oil shall be clear and Transparent and free from Suspended matter or sediments.	
2.	Density at 29.5 <sup>0</sup> C	0.89 G/cm <sup>3</sup>	
3.	Kinematic Viscosity At 27 <sup>0</sup> C maximum	27 cSt	
4.	Interfacial tension at 27 <sup>0</sup> C minimum	0.04 N/M	
5.	Flash point Pen sky Marten (closed) (Minimum)	140 <sup>0</sup> C	
6.	Pour point (Maximum)	-6 <sup>0</sup> C	
7.	Neutralization value.		
	(a) Total acidity (Maximum)	0.03 mg. KOH/G	
	(b) Inorganic acidity/alkalinity.	Nil	
8.	Corrosive sulphur (In terms of classification of copper)	Non-corrosive.	
9.	Electric strength	30 KV (rms) for new unfiltered oil	
	(a) (Breakdown voltage) minimum in 2.5mm gap.		
	(b) After filtration (minimum) in 2.5mm gap.	if the above value is not attained, the oil shall be filtered 60KV (rms.)	
10.	Dielectric dissipation Factor (tan delta) at 90 <sup>0</sup> C (Maximum)	0.002	
11.	Specific resistance (resistivity)		
	(c) at 90 <sup>0</sup> C (Minimum)	(a) 35x10 <sup>12</sup> ohm-cm	
	(d) at 27 <sup>0</sup> C (Minimum)	(b) 1500x 10 <sup>12</sup> ohm-cm	
12	Oxidation stability		
(a)	Neutralization value after oxidation (Max.)	(a) 0.4 mg KOH/g	
(b)	Total sludge after oxidation (Max.)	(b) 0.10% by weight.	
13.	Presence of oxidation inhibitor percentage by weight.	The oil shall not contain antioxidant additives.	
14.	Water content (maximum)	50 PPM	
15.	S.K.Value	< 5%	
16.	Naphthenic Content	More than 40%	
17.	Paraffinic content	Less than 56%	



### **ADDITIONAL TECHNICAL PARTICULARS FOR OILS**

The oil shall be subjected to 'Oxidative ageing with copper catalyst 'By' open breaker method as per "ASTMD 1934" After the test, the following characteristics are to be determined.

Sl. No.	Characteristics	Method of test.	To be filled by the bidder
1.	Resistivity @ 90 <sup>0</sup> C (Min.)	0.2x10 <sup>12</sup> ohm-cm	
2.	Resistivity @ 27 <sup>0</sup> C (Min.)	2.5x10 <sup>12</sup> ohm-cm	
3.	Dielectric dissipation factor (tan delta) at 90 <sup>0</sup> C (Max.)	0.20	
4.	Total acidity (Max.)	0.05 mg/KOH/gm.	
5.	Total sludge (Max.)	0.05 percent by weight.	

### **SCHEDULE OF QUANTITY AND DELIVERY**

Sl.No.	Description of materials	Quantity required	Desired Delivery	Destination
1	Transformer oil Naphthalene Base	300 KL	Within 4(four) months from the date of issue of the purchase order	Any Site/store of OPTCL within the state of Odisha

**END OF TENDER SPECIFICATION**