



**ODISHA POWER TRANSMISSION CORPORATION LTD**  
**OFFICE OF THE SENIOR GENERAL MANAGER,**  
**CENTRAL PROCUREMENT CELL,**  
**JANPATH, BHUBANESWAR - 751022**  
**TENDER SPECIFICATION NO.**  
**SR.G.M.-CPC-II-E- TENDER- BATTERY -10/2019-20**  
**FOR PROCUREMENT OF BATTERY**

LOT	Description	Requirement		
		2018-19	2019-20	Total
I	220 volt, 350 AH Vented Lead Acid Storage battery (Plante type)	--	8	8

**Request for online tender documents : From Date 07.09.2019(11.00Hr)**

**To Date 29.09.2019(13.00Hr)**

**Last date of submission of online tender : Date 30.09.2019 (13.00Hr)**

**Date of opening of Tender : Date 30.09.2019(15.00Hr)**



**ODISHA POWER TRANSMISSION CORPORATION LTD.**  
**REGD. OFFICE: JANPATH, BHUBANESWAR – 751 022,**  
**e-TENDER NOTICE NO. CPC - 10/2019-20**

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD, Sr.G.M. [C.P.C.] invites bids from reputed manufacturers in two part bidding system for supply of 220V, 350AH Vented Lead Acid Storage Battery(Plante type) for 220V DC auxiliary system of Grid substations. 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 **07.09.2019(11.00Hr)** to **29.09.2019 (13.00Hr)**. Interested manufacturers may visit OPTCL's official website <http://www.optcl.co.in> and [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) for detail specification.

**N.B: All subsequent addendum / corrigendum to the tender shall be hosted in the OPTCL's official website <http://www.optcl.co.in>, [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.**  
**e-TENDER NOTICE NO- CPC -10/2019-20**

*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.*

Tender Specification No.	Lot Sl. No	Description of equipment/ materials	Quantity In Nos.	Earnest Money Deposit (INRs.)	Cost of Tender Specification document (INRs.)	Tender Processing fee (INRs)	Last date of receipt & opening of tender
TENDER SPECIFICATION NO. SR.G.M.-CPC-II-E- TENDER- BATTERY -10/2019-20	I	220V, 350 AH, Vented Lead Acid Storage Battery (Plante type)	8	1,93,875	12,000/+ 1440/- (GST @12%) =13,440/- (Rupees Thirteen Thousand Four Hundred) Forty Only.	5000/- +900/- (GST@18%) =5900 (Rupees Five Thousand Nine Hundred Only.	Date 30.09.2019 (13.00Hr) Date 30.09.2019(15.00Hr)

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

The bidders who want to submit bids shall have to pay non-refundable amount of Rs. 13,440/- (Rupees Thirteen Thousand Four Hundred Forty) only including GST @ 12% towards the tender cost, in the form of Demand draft/Pay order/Cash only, drawn in favour of the D.D.O Head Qtrs, OPTCL, Bhubaneswar. They have to also submit notarized hard copy of GST registration certificate on or before the date & time of submission of techno-commercial bid.

The bidders shall have to submit non-refundable amount of Rs.5,900/- (Rupees Five thousand & nine hundred) only including GST @ 18% 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 down load the bid proposal sheets & bid document in electronic mode.

The bidder shall deposit the tender cost, tender processing fee & EMD BG prior to last date & time for submission of bid as notified in tender notice. Local micro & small enterprisers (MSEs) (**In the state of Odisha**) based in Odisha and registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC can participate without payment of the cost of tender specification. They have to submit notarized hard copy of valid registration as local MSE (**In the state of Odisha**) as above on or before the date & time of submission of techno-commercial bid.

The demand draft/pay order for tender cost, processing fees are to be submitted along with the EMD at the office of the undersigned on or before the last date & time of submission of tender.

The bidders shall scan the Demand Draft/Pay order/ Bank guarantee, towards EMD/ notarised hard copy of valid registration as local MSE (**In the state of Odisha**) (if any) and upload the same in the prescribed form in .gif or .jpg format 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/OPTCL](http://www.tenderwizard.com/OPTCL) by clicking on hyper link "Register Me".

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

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

**SENIOR GENERAL MANAGER,  
CENTRAL PROCUREMENT CEL**

**ODISHA POWER TRANSMISSION CORPORATION LTD.**

**OFFICE OF THE SR. GENERAL MANAGER**

**CENTRAL PROCUREMENT CELL**

**FAX NO.:0674 - 2542964**

**TELEPHONE NO.:0674 - 2541801**

**JANAPATH, BHUBANESWAR - 751022**

**TENDER SPECIFICATION NO.SR.G.M. - CPC -II- E- TENDER-BATTERY -  
10/2019-20**

**CONTAINING**

**PART - I**

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**SECTION - II : GENERAL TERMS AND CONDITIONS OF  
CONTRACT ( G.T.C.C.)**

**SECTION - III : LIST OF ANNEXURES**

**SECTION - IV : TECHNICAL SPECIFICATION**

**PART - II PRICE BID.**

**PART - I.**  
**SECTION - I.**

**INSTRUCTIONS TO TENDERERS**

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## 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 GST laws.

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. 2360/-** through e-payment/DD in favour of  
K S E D C Ltd 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.
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** 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 GST laws.

## **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**

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).

### **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 proposal 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 or 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 Micro and small Enterprises(MSEs) (In the state of Odisha) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC 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 Micro and small Enterprises (MSEs) (In the state of Odisha) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC can participate by submitting Earnest Money Deposit @ 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 (Hd.qrs. Office), Bhubaneswar - 751022
- (b) **Bank Draft:** -To be drawn in favour of Drawing & Disbursing Officer, OPTCL [H.Qrs.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.

**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 at clause-19of 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] Earnest Money. [As per **Annexure-VIII**]

- [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 and GST Compliance Rating. The GST Identification Number(GSTIN) under GST Laws and permanent account number [PAN] of the firm under Income tax Act are required.
- [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 MSE (In the state of Odisha) (if any).
- [xv] The bidder should not have any pending litigation or arbitration with OPTCL with regard to any project or related activity. The bidder should certify/declare the same in unequivocal terms by way of an affidavit duly sworn before a magistrate or a notary.

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

- (a) Part – II of the tender shall consist of the following  
Schedule of prices in the prescribed proforma 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 are more than one lots. 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.

**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 hotel for the OPTCL inspecting officer of the rank of Assistant General Manager (Grade E-6) and above.*

*II. Single room accommodation in 3 star hotel 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/IIInd 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 (Ist/IIInd 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) Moreover, 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.

**21. Litigation/Arbitration**

**(i)**- Bidder has to furnish detailed information on any litigation or arbitration arising out of contracts completed or under execution by it over the last five years. A consistent history of litigation by or against the bidder may result in rejection of bid.

**(ii)** The bidder should not have any pending litigation or arbitration with OPTCL with regard to any project or related activity. The bidder should certify/declare the same in unequivocal terms by way of an affidavit duly sworn before a magistrate or a notary. Bid furnished by the bidder shall not be eligible for consideration if it is not accompanied by the affidavit. Further, the bid/LOA/LOI shall liable for outright rejection/cancellation at any stage if any information contrary to the affidavit/declaration is detected.

**SECTION – II.**  
**GENERAL TERMS AND CONDITIONS OF CONTRACT [G.T.C.C.]**

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**PART-I**  
**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 equipment 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 ORISSA 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.
- 2.11 "Basic Price (Taxable value for Goods) at the point of destination" shall mean the price quoted by the bidder for equipment and material at the consignee's store/site. The cost is inclusive of packing, forwarding, freight, insurance and all expenses and taxes & duties at the end of the supplier excluding Goods & Service Tax. The Goods & Service Tax shall be shown in a separate column item wise

alongside the Basic Price quoted at the applicable rate in the Tax Invoice. The applicable rate of GST shall refer to the HSN code of the material supplied. The Basic Price and GST thereon shall be the “FOR Destination Price” as quoted by the bidder.

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 equipment 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 equipment/materials to be supplied under this contract and if part of the said equipment/material 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/material were being manufactured in the contractor’s premises. Such inspection, examination and testing shall not relieve 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 carryout 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 & maintenance in service, wherein it is thought necessary by the purchaser.

**6. Rejection of Materials.**

In the event any of the equipments/material 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/material or ask the supplier in writing to rectify or replace the defective equipment/material free of cost to the purchaser. The Supplier on receipt of such notification shall either rectify or replace the defective equipment/material free of cost to the purchaser 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 equipment/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 price reduction Clause as per contract for the un-delivered 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 Organisations 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 installed 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/equipment offered as per technical specification executed during the last two years along with users 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 tenderers to study the specification, specified in the tender schedule thoroughly before tendering so that, if any deviations are made by the Tenderers,(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 tenderer 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 Tenderers on individual merits of the Tenderer. 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 Tenderer 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 tenderers, general conditions of contract, specification and the schedules of quantity and delivery to satisfy 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] The equipment/ materials 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 price reduction 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 price reduction 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 price reduction 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 commissioning 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 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]** Equipment/material failed or found defective during the guarantee period shall have to be guaranteed after repair/replacement for a further period of 12 months from the date of commissioning or 18 months from the date of receipt at the store/site after such repair/replacement 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 & out side 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 Landing cost (Taxable Value plus GST thereon) of the purchase order (In case of successful bidder who is a local Micro and small Enterprise(MSEs)based in Odisha registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC 5% (five percent)), 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 worth of Rs.29.00 [Rupees twenty nine] only or as per the prevalent rules, valid for a period of 20 months 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 B.G should be revalidated 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.

**iv)** BG for Buy- back of Battery

The successful bidder is required to submit Security Bank Guarantee for 100% [hundred percent] of the total buy back cost of the old battery sets 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 worth of Rs.29.00 [Rupees twenty nine] only or as per the prevalent rules, valid for a period till lifting of old batteries , 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 B.G should be revalidated as and when intimated to you to cover the entire required period.

If the firm fails to lift the old battery set within 90 days of supply and commissioning of new battery set, their claim on the old battery set will be forfeited and no money will be paid to them.

## **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.**

(i) 90% of the Taxable value of Battery & charger with Goods and Services Tax in full as applicable will be paid on receipt of materials in good condition at stores/desired site and verification thereof, subject to approval of 10% Composite Bank Guarantee (In case of successful bidder who is a local Micro and small Enterprise(MSEs),based in Odisha & registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC 5% (five 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. The buy-back price shall be deducted from the first 90% payment and OPTCL will issue receipt voucher/Tax Invoice towards amount deducted towards buy-back.

Balance 10% of the Taxable Value of Battery & charger along with commissioning charges, if any, shall be paid after successful erection & commissioning of chargers along with battery sets at the required site, on issuance of taking over certificate by the concerned site-in-charge.

ii) TDS under GST Laws shall be deducted, if applicable.

Any imposition of new tax or revision of tax shall be paid/reimbursed at the time of dispatch, scheduled or actual whichever is lower (i.e. If delivery is within schedule period, tax variation as applicable shall be paid, 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]** 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 Price Reduction Schedule for Delay in Completion of Supply under Purchase Order/Contract**

(i) If the Supplier fails to deliver the materials/equipment within the delivery schedule, specified in the Purchase Order/Contract including delivery time extension, if any, granted with waiver of Price Reduction Schedule, the Purchaser shall recover from the Supplier, Price Reduction Schedule for a sum of half per cent (0.5 per cent) of the Taxable Value of the un-delivered equipment /materials 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 Price Reduction Schedule shall not exceed five per cent (5%) of the Taxable Value of the un-delivered equipment/materials. Equipment will be deemed to have been delivered only when all its components, accessories and spares as per technical Specification are also delivered. If certain components, accessories and spares are not delivered in time, the equipment/materials will be considered delayed until such time as the missing components, accessories and spares are delivered.

(ii) During the guarantee period, if the Supplier fails to rectify/replace the equipment/material within 30 days from the date of intimation of defect by the purchaser, then the Price Reduction Schedule at the rate of half percent (0.5%) of the Total Taxable Value for each calendar week of delay or part thereof shall be recovered by the purchaser. For this purpose, Price Reduction Schedule shall be reckoned from the 30th day from the date of issue of letter on defectiveness of equipment/material. The total amount of Price Reduction Schedule in this case shall not exceed 10% (TEN PERCENT) of the Purchase Order/Contract amount

except GST (i.e. Total Taxable Value). If the defects, so intimated are not rectified or equipment/materials not replaced by the supplier within the guarantee period, then whole of the C.P.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 awaiting 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. Rating under Goods and Services Tax and Balance sheet and profit & Loss Account:**

- i. Rating under Goods and Services Tax 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 Goods and Services Tax.**

Offers with exemption from Goods and Services 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 Goods and Services Tax shall be paid on actual basis subject to production of authenticated documentary evidence.

**27. 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 Tenderers. 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 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 Goods and Services Tax & other levies as may be applicable plus installation & commissioning charges after deducting the buy-back price of old batteries. The FORD PRICE shall consist of the following components

- a) Taxable value of equipment/materials
- b) Goods and Services Tax
- c) Other levies.
- d) Mandatory spares, if any for maintenance of equipment. (At the discretion of the purchaser)
- e) Test charges, if any.
- f) Supervision of erection, testing and commissioning charges, if any.
- g) Any other items, as deemed proper for evaluation by the purchaser.
- h) Loading factors will be taken in to account during evaluation if the prices of some of the items, not quoted.
- i) Any imposition of new tax or revision of tax shall be considered at the time of price bid evaluation

**(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 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 organization.

**(III)** The local MSE (In the state of Odisha) 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 (In the state of Odisha) bidders failing which the said 30% of the tendered quantity be awarded to the lowest evaluated bidder.

**30. Minimum Qualification Criteria of Bidders.**

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

- i) The bidder should have manufacture and supply experience of above rated or higher capacity equipment for a minimum period of 3 (three) years as on the date of opening of the tender
- ii) At least 50% of the tendered quantity of above rated or higher capacity equipment should have been supplied within the above-stipulated period.
- iii) The above rated or higher capacity equipment should have at least 2 (two) years successful performance from the date of commissioning. At least one of the performance certificates shall be submitted from Govt. of India/State Govt.(s) or their undertakings.
- iv) The bidder should have conducted type tests on the tendered equipments in Government approved laboratory within five years from the date of opening of the tender..

**31. Jurisdiction of the High Court of Orissa.**

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 outrightly 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. In case of local Micro and small Enterprises(MSEs)based in Odisha registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC participating in the tender they have to submit notarised hard copy of registration

as local MSE (In the state of Odisha) as above on or before the date and time of submission of technical bid.

- [ii] The tenderer shall submit the bid in electronic mode only
- [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 effected prior to the date of opening of tender. Data of at least 3 (three) 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 Organisation'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.
- (xiii) (a) Detailed information on any litigation or arbitration arising out of contract completed or under execution by it over the last five years. A consistent history of litigation by or against the bidder may result in rejection of bid.  
(b) The bidder should not have any pending litigation or arbitration with OPTCL with regard to any project or related activity. The bidder should certify / declare the same in the unequivocal terms by way of an affidavit duly sworn before a magistrate or a notary. Bid furnished by the bidder shall not be eligible for consideration if it is not accompanied by the affidavit. Further the bid / LOA/ LOI

shall be liable for outright rejection/ cancellation at any stage if any information contrary to the affidavit / declaration is detected.

**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 “

**SECTION - III.**

**LIST OF ANNEXURES**

**[ I TO XII ]**

**[ PAGE 32 TO 48 ]**

**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.	Schedule of deviations(Technical)	ANNEXURE-XII(A)
13.	Schedule of deviations(Commercial)	ANNEXURE-XII(B)
14.	Litigation/Arbitration	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 ORISSA 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 \_\_\_\_\_ year  
Yours faithfully

Signature of the Bidder with seal of the company

[This form should be dully filled up by the Bidder 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-I**

1	Whether the material/equipment offered conforms to the OPTCL'S specification (If not, specify the deviations in Annexure).	Yes/No
2	(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 Micro and small Enterprises (MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC 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 opening of technical bid.  (b) Earnest money furnished.  (A) Bank Guarantee, (B) Bank Draft.	Submitted/Not submitted
3	Manufacturer's supply experience including user's certificate uploaded or not. [As per clause No.7 of Section-II.]	Yes/No
4.a.i	Commercial Deviations to the specification if any	Yes/No
4.a.ii	If Yes, [list uploaded or not, As per clause-9 of the Section-II]	Yes/No
4.b.i	Technical Deviations to the specification if any	Yes/No
4.b.ii	If Yes, list uploaded or not, As per clause-9 of the Section-II	Yes/No
5	Delivery <u>(Period in months from the date of issue of PO)</u>	
6	Guarantee: - Whether agreeable to OPTCL's terms [As per clause-18 of Section-II].	Yes/No
7	Whether agreeable to furnish Composite B.G. in case his tender be successful [As per clause-19 of Section-II]	Yes/No
8	Terms of payment:- Whether agreeable to OPTCL's terms or not [As per clause-21 of Section-II]	Yes/No
9	Nature of price:- Firm	Yes/No
10	Price Reduction: - Whether agreeable to OPTCL's terms or not (As per clause- 22 of Section-II)	Yes/No
11	Whether Sales Tax Clearance Certificate/ GST Compliance Rating/ P&L A/C, Balance Sheet for the	Yes/No

	required period are uploaded as per clause-25 of Section-II	
12	Validity: - Whether agreeable to OPTCL's terms or not[As per clause-28 of Section-II]	Yes/No
13.a	Whether GST shown separately.(Yes No)	Yes/No
13.b	% of GST(On Taxable Value at Destination)	
13.c	If NIL/EXEMPTED please specify with validity period of such exemption.	
14	Whether recent type test certificates from any Government approved laboratory is uploaded or not. [As per clause-30[viii] of section-II]	Yes/No
15	Whether guaranteed technical particulars are uploaded or not	Yes/No
16	Whether dimensional design/drawings uploaded or not	Yes/No
17	Whether materials are ISI/ISO marked.	Yes/No
18	Manufacturer's name and it's trademark	
19	Whether registered under GST Laws	Yes/No
20	Whether declaration form, duly filled in, uploaded 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 Bidder)

(To be filled up by the tenderer as indicated in the excel sheet)

### **ANNEXURE-IV**

#### **ABSTRACT OF PRICE COMPONENT [TO ACCOMPANY PRICEBID]**

(To be filled up by the tenderer as indicated in the excel sheet)

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.****SCHEDULE OF PRICES****TENDER SPECIFICATION No.**

Item No.	Description.	Qty (unit)	Unit Taxable Value at destination store/ site including transformer oil & other accessories & testing as per spec.
1.	2.	3.	4.

<b>Unit</b> <b>GST</b>	Unit landing Cost including all taxes & Duties.	Total landing cost Including all taxes & duties.
<b>5.</b>	6= (4+5)	7= (6*3)

Erection Cost in INR Rs.			Grand Total amount in Rs.
Unit Erection Cost	Unit GST	Total Erection Cost	13+16
14	15	16	17

NB: -

1. **The tenderer should fill up the schedule properly and in full in Excel file of e-tender mode.** The tenderer should fill up the schedule properly and in full. 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. The Tenderer shall give an undertaking in part-I of the bid that, any implication of lower Tax and Input Tax Credit benefit have been fully passed on to the purchaser as per anti-profiteering and other provisions under GST Laws while quoting the tender price.
3. Conditional offers will not be acceptable.
4. The bidder is to clearly indicate the period up to which the tax holidays are available to them.
5. Price bid in any other format will not be acceptable and the offer will be rejected.
6. All the above charges will be taken into account, during bid price evaluation.

[PROFORMA FOR BANK GUARANTEE FORM FOR EARNEST MONEY DEPOSIT]

(To be Stamped in accordance with Stamp Act and the Non-Judicial Stamp Paper of appropriate value should be in the name of Issuing Bank)

Ref No: .....

Bank Guarantee No. ....

Date:.....

BG Amount:.....

Validity Period:.....

This Guarantee Bond is executed this..... day of ..... by us the..... Bank at ....., P.O....., Dist....., State..... and Code No.....

Whereas the ODISHA POWER TRANSMISSION CORPORATION Limited, Janpath, Bhubaneswar, a company constituted under the Companies Act-1956 (hereinafter called OPTCL) has invited Tender vide e-NIT No..... Dated..... for the purpose of ..... work under Package(s) No...../ purchase of ----- .

1. Now, therefore, in accordance with Notice Inviting Tender (e-NIT) No..... Dated ..... of OPTCL, Ms/Shri.....Address..... Wish / wishes to participate in the said tender and as a Bank Guarantee for the sum of Rs..... [ Rupees in *words*----- ] valid for a period of .....days is required to be submitted by the bidder, as per Tender Specification, we the \_\_\_\_\_ ) [indicate the name, Address & Code of the bank] [hereinafter referred to as "Bank"] at the request of Ms/Shri..... [hereinafter referred to as "Bidder"] do hereby unequivocally and unconditionally guarantee and undertake to pay during the above said period on written request by the <Tender Issuing Authority, Central Procurement Cell (CPC) ODISHA POWER TRANSMISSION CORPORATION Ltd. , Bhubaneswar an amount not exceeding Rs..... to OPTCL., without any reservation. The guarantee would remain valid up to ..... [Date] and if any further extension to this is required, the same will be extended on receiving instruction from ----- on whose behalf this Bank Guarantee has been issued.

2. We, the \_\_\_\_\_ [indicate the name of the Bank, Address, Code] do hereby further undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from OPTCL. 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..... ( Rupees in words.....)

3. We undertake to pay to OPTCL any money so demanded notwithstanding any dispute or disputes so raised by the bidder 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 thereunder and the bidder shall have no claim against us for making such payment.

4. We, the \_\_\_\_\_ Bank further agree that the guarantee herein contained shall remain in full force and effect during the aforesaid period of \_\_\_\_\_ days [in words]..... (as per Tender Specification) and it shall continue to be so enforceable till all the dues of OPTCL under or by virtue of the said Bid have been fully paid and its claims satisfied or discharged or till OPTCL certifies that the terms and conditions of the said Bid have been fully and properly carried out by the said bidder and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us or our Branch Office at Bhubaneswar <Mention Name, Address & Code of the Branch Office at Bhubaneswar of Issuing Bank> in writing on or before \_\_\_\_\_ we shall be discharged from all liability under this guarantee thereafter.
  
5. We the \_\_\_\_\_ Bank further agree with OPTCL that 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 Bidder from time to time or to postpone for any time or from time to time any of the powers exercisable by OPTCL against the said Bidder 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 granted to the Bidder or for any forbearance, act or omission on the part of OPTCL or any indulgence by OPTCL to the said Bidder or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have the 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/or of the Bidder.
  
- 7 We \_\_\_\_\_ [indicate the name of Bank, Address & Code] lastly undertake not to revoke this guarantee during its currency except with the previous consent of OPTCL in writing .
  
8. We, the \_\_\_\_\_ Bank (Name, Address & Code) further agree that this guarantee shall also be invocable at our place of business at ----- Branch of **Bhubaneswar** (indicate Name, Address & Code of the Branch at Bhubaneswar) in the State of Odisha.”

**“Notwithstanding anything contained herein”**

- a) Our liability under the bank guarantee shall not exceed Rs.------(Rupees in words-----) only.
  
- b) This Bank guarantee shall be valid up to -----.
  
- c) We or our Branch at Bhubaneswar <Mention Name, Address & Code.....> shall be liable to pay guaranteed amount or any part thereof under this guarantee only if you serve upon us at----- Branch of Bhubaneswar a written claim or demand on or before .....

The Bank Guarantee is issued in paper form and Advice transmitted through SFMS with required details to the beneficiary’s advising bank (ICICI Bank Bhubaneswar, IFSC Code ICIC0000061).

Dated, the \_\_\_\_\_ Day of \_\_\_\_\_

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

Signature .....  
Full name .....  
Designation .....  
Power of Attorney No. ....  
Date.....  
Seal of the Bank.....

**WITNESS: (SIGNATURE WITH NAME AND ADDRESS)**

(1)  
Signature .....  
Full name .....  
(2)  
Signature .....  
Full name .....

**N.B.:**

1. Name of the Bidder.: .....
2. BG No & Date :.....
3. Amount (In Rs.):.....
4. Validity up to :.....
5. E-NIT No.....
6. Package/Works No.....
7. Name, Address & Code of Issuing Bank:.....
8. Name, Address & Code Bhubaneswar Branch of the Issuing Bank:.....
9. The Bank Guarantee shall be accepted after getting SFMS advice as per details below.

**Format for SFMS details**

**(The Unique Identifier for field 7037 is “OPTCL541405793”)**

Sl. No	PARTICULARS	TYPE	DETAILS
1	Type of Bank Guarantee	Mandatory	EMD
2	Currency & Amount	Mandatory	
3	Validity Period(from—to --)	Mandatory	

4	Effective Date	Mandatory	
5	End date of lodgment of Claim	Mandatory	
6	Place of lodgment of claim	Mandatory	Bhubaneswar, Branch Name----- of Bhubaneswar Branch code----- of Bhubaneswar Branch Address ----- at Bhubaneswar
7	Issuing Branch IFSC Code	Mandatory	
8	Issuing Branch name & address	Mandatory	
9	Name of applicant and its details	Mandatory	
10	Name of Beneficiary and its details	Mandatory	
11	Beneficiary's Bank/Branch and IFSC Code	Mandatory	ICICI Bank Ltd IFSC Code-ICIC0000061
12	Beneficiary's Bank/Branch name and address	Mandatory	ICICI Bank Ltd Bhubaneswar Main Branch, Bhubaneswar
13	Sender to receiver information	Mandatory	
14	Purpose of Guarantee	Mandatory	EMD
15	Reference/Description of the underlined tender/contract	Mandatory	NIT No

[PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT PAYMENT  
AND PERFORMANCE]

**(To be stamped in accordance with Stamp Act and the Non-Judicial stamp paper of appropriate value should be in the name of the Issuing Bank.)**

**Ref No:- .....**

**Bank Guarantee No. ....**

**Date: .....**

**BG Amount:.....**

**Validity Period:.....**

This Guarantee Bond is executed this..... day of ..... by us the..... Bank at ..... , P.O..... , Dist....., State..... and Code No.....

Whereas the ODISHA POWER TRANSMISSION CORPORATION Limited, Janpath, Bhubaneswar, a company constituted under the Companies Act-1956 (hereinafter called OPTCL) has issued Letter of Award (LOA) No..... Dated..... for the purpose of ..... work under Package No..... (herein after called “the Agreement”) to M/s/Shri ..... , Address..... (herein after called the “Contractor”) for supply, erection, installation & commissioning and associated civil works under the above LoA and whereas OPTCL has agreed (1) to exempt demand of security deposit under the terms and conditions of the LOA (2) to release payment of the cost of the Contract Price to the Contractor on furnishing by the Contractor to OPTCL a Contract Performance Bank Guarantee (CPBG) of the value of 10% of the Contract Price of the said Agreement.

1. Now therefore, in accordance with the terms and conditions of LOA No. \_\_\_\_\_ dated \_\_\_\_\_ for the due fulfillment by the said Contractor of the terms and conditions contained in the said agreement, on production of a Bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only, we the bank \_\_\_\_\_ [Indicate bank Name , Address & Code ] (hereinafter referred to as “the Bank”) at the request of M/s/Shri \_\_\_\_\_ contractor do hereby undertake to pay to OPTCL, an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only .
2. We, the \_\_\_\_\_ Bank [indicate the name of the Bank, Address & Code] do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from OPTCL. 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. \_\_\_\_\_ (Rupees----- In Words).
3. We, the ..... Bank also undertake to pay to OPTCL any money so demanded not withstanding any dispute or disputes raised by the Contractor in any suit or proceeding instituted / pending before any court or tribunal relating thereto, our liability under this present being absolute and irrevocable. The payment so made by us under this bond shall be a valid discharge of our

liability for payment thereunder and the Contractor shall have no claim against us for making such payment.

4. We, the \_\_\_\_\_ Bank further agree that the guarantee herein contained shall remain in full force and effect during the aforesaid period of \_\_\_\_\_ days and it shall continue to be so enforceable till all the dues of OPTCL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till OPTCL certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor and accordingly discharges this guarantee.

Unless a demand or claim under this guarantee is made on us or our Branch Office at Bhubaneswar <Mention Name, Address & Code of the Branch Office at Bhubaneswar of issuing Bank> in writing on or before ..... (Date), we shall be discharged from all liability under this guarantee thereafter.

5. We, the \_\_\_\_\_ Bank [indicate the name of the Bank, Address & Code] further agree with the Board that 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 or performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by OPTCL against the said contractor(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 contractor(s) or for any forbearance, act or omission on the part of OPTCL or any indulgence by OPTCL to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of so relieving us.

6. This guarantee will not be discharged due to the change in the name, style or constitution of the Bank and/or of the contractor(s).

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

8. We, the \_\_\_\_\_ Bank (Name, Address & Code) further agree that this guarantee shall also be invokable at our place of business at **Bhubaneswar** (indicate Name, Address & Code of the Branch at Bhubaneswar) in the State of Odisha.

**“Notwithstanding anything contained herein”**

a) Our liability under the bank guarantee shall not exceed Rs.------(Rupees in words-----) only.

b) This Bank guarantee shall be valid up to -----.

c) We or our Branch at **Bhubaneswar** <Mention Name, Address & Code.....> shall be liable to pay guaranteed amount or any part thereof under this guarantee only if you serve upon us at----- Branch of Bhubaneswar a written claim or demand on or before .....,

The Bank Guarantee is issued in paper form and Advice transmitted through SFMS with required details to the beneficiary’s advising bank (**ICICI Bank Bhubaneswar**, IFSC Code ICIC0000061).

Dated, the \_\_\_\_\_ Day of \_\_\_\_\_  
For \_\_\_\_\_ [Indicate name of Bank]

Signature.....

Full Name.....

Designation.....

Power Of Attorney.....

Dated.....

Seal of the Bank.....

**WITNESS: (SIGNATURE WITH NAME AND ADDRESS)**

1. Signature.....

Full Name.....

2. Signature.....

Full Name.....

**N.B.:**

1. Name of the Contractor.: .....
2. BG No & Date :.....
3. Amount (In Rs.):.....
4. Validity up to :.....
5. LOA No.....
6. Package No.....
7. Name, Address & Code of Issuing Bank:.....
8. Name, Address & Code of Bhubaneswar Branch of the Issuing Bank:.....
10. The Bank Guarantee shall be accepted after getting SFMS advice as per details below.

**Format for SFMS details**

**(The Unique Identifier for field 7037 is “OPTCL541405793”)**

Sl. No	PARTICULARS	TYPE	DETAILS
1	Type of Bank Guarantee	Mandatory	Contract Performance

2	Currency & Amount	Mandatory	
3	Validity Period(from—to --)	Mandatory	
4	Effective Date	Mandatory	
5	End date of lodgment of Claim	Mandatory	
6	Place of lodgment of claim	Mandatory	Bhubaneswar, Branch Name----- of Bhubaneswar Branch code----- of Bhubaneswar Branch Address ----- at Bhubaneswar
7	Issuing Branch IFSC Code	Mandatory	
8	Issuing Branch name & address	Mandatory	
9	Name of applicant and its details	Mandatory	
10	Name of Beneficiary and its details	Mandatory	
11	Beneficiary's Bank/Branch and IFSC Code	Mandatory	ICICI Bank Ltd IFSC Code-ICIC0000061
12	Beneficiary's Bank/Branch name and address	Mandatory	ICICI Bank Ltd Bhubaneswar Main Branch, Bhubaneswar
13	Sender to receiver information	Mandatory	
14	Purpose of Guarantee	Mandatory	Contract Performance
15	Reference/Description of the underlined tender/contract	Mandatory	LOA No----

## 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 Bidder

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 Bidder

Name, Designation, Seal

## **ANNEXURE-XI**

**SCHEDULE OF INSTALLATIONS.**

<b>Details of equipment, offered</b>	Rated Voltage	Place of installation and complete postal address	Year of commissioning

Place: -

Date

Signature of Bidder:

Name, Designation, Seal

**ANNEXURE-XII**

**DEVIATION SCHEDULE**

**Bidder shall enter below particulars of his alternative proposal for deviation from the specification, if any.**

(To be filled up by the tenderer as indicated in the excel sheet)

**ANNEXURE – XIII**  
**LITIGATION HISTORY**

Name of the Bidder:

Bidder should provide information on any history of litigation or arbitration resulting from contracts executed in the last five years or currently under execution.

Year.	Award for or against bidder	Name of client, cause of litigation and matter in dispute	Disputed amount (current value in Rs.)

Place: -

Date

Signature of Bidder:

## SECTION – IV

### LOT – I

#### **TECHNICAL SPECIFICATION FOR 220 VOLTS VENTED LEAD ACID STORAGE BATTERY (PLANTE TYPE).**

##### **A.1. SCOPE:**

**A.1.1.** These specifications cover the design, manufacturer, assembly, shop testing at manufacturer's works before despatch, supply and delivery at SITE and erection, testing and commissioning of 220 volt vented lead Acid storage Battery.

**A.1.2.** The scope of supply shall include all parts and accessories etc. which are usual and necessary for erection, operation and maintenance of the battery banks and the chargers, as specified, above though not individually and specifically stated or enumerated.

**A.1.3.** The scope also includes the lifting of old batteries on buy back system basis.

##### **A. 2.0. STANDARDS:**

**A. 2.1.** The equipment shall comply in all respects with the latest edition of relevant Indian Standard & IEC Specifications except for the modifications specified herein. The equipment manufactured according to any other authoritative national / international standard which ensure an equal or better quality than the provisions of these specifications shall also be acceptable. Where the equipment offered conform to any other standard, salient points of differences between the proposed standard and the provisions of these specifications shall be clearly brought out in the tender. A Xerox copy of such standards [in English shall be enclosed with the offer].

##### **A 2.2 LIST OF RELEVANT STANDARDS IS BS/IEC GIVEN BELOW :**

- |        |                        |                                                                                                              |
|--------|------------------------|--------------------------------------------------------------------------------------------------------------|
| [i]    | (a)IS-1652-1991        | Specification for stationery cells Batteries,                                                                |
|        | (b)BS-6290:PART-2:1984 | lead Acid type with Positive Plates                                                                          |
| [ii]   | IS : 266-1993          | -Specification for Sulphuric Acid.                                                                           |
| [iii]  | IS-6071-1986           | -Specification for synthetic separators for lead acid batteries.                                             |
| [iv]   | IS:1069-1993           | Specification for quality tolerances water for storage batteries.                                            |
| [v]    | IS:1146-1981           | -Specification for rubber and plastic containers for lead acid storage batteries.                            |
| [vi]   | IS:8320-2000           | -General requirements and methods of tests for lead-acid storage batteries.                                  |
| [vii]  | IS:1885-Part-8/1996    | Electro technical vocabulary-stationary cells & batteries.                                                   |
| [viii] | IEEE-485/1983          | -IEEE recommended practice for sizing large lead storage batteries for generating stations and sub-stations. |
| [Ix]   | IEC 60896-11/200       | -Cells Testing                                                                                               |

##### **A3.0 INSTALLATIONS :**

**A.3.1.** Equipment covered under these specifications shall be suitable for indoor installation.

##### **A4.0 PARTICULARS OF THE SYSTEM :**

**A.4.1.** One set of 220 Volts, 350AH Vented capacity battery along with equipment such as boost charger, trickle charger shall be sufficient to cater to the DC power requirements in different EHT Sub-stations in the State under OPTCL.

### A.5.0 GENERAL REQUIREMENTS OF THE EQUIPMENT :

General requirement of the different components of the Battery system are given below.

**A.5.1** One set of 220V, 350AH vented lead acid type having high cyclability, Low maintenance storage battery set is for required for meeting the D.C. load requirements of E.H.V sub-station for indicating lamps, emergency lighting, relays, alarms, circuits breakers etc of normal load current of 10 Amp.(max) and maximum intermittent load of 45 Amps. The battery shall be kept in healthy conditions with the help of the existing float charging unit. The existing boost charger unit shall supply quick charging current to bring back the battery to fully charged conditions after it has discharged to a considerable extent while meeting the emergency load. The battery shall meet practically all the heavy current demands, as required for operation [closing and / or opening of circuit breakers, emergency lighting load etc. It should be noted that, the 220V batteries are to be accommodated within the floor space area and area to be provided by the manufacturer in the following format.

SL.NO	PARTICULARS	ROOM SIZE
1	350 AH 220 VOLT SINGLE SET	
2	350 AH 220 VOLT DOUBLE SET	

and should operate satisfactorily over the entire range of ambient temperature of 0° C to 50° C and relative humidity of 95%.

### A. 6.0. DETAILS OF SPECIFICATIONS OF VENTED LEAD ACID BATTERIES :

**A.6.1** The batteries shall be made of closed type lead acid cells of very low internal resistance having high cycling capability ,moderate size, high service life minimum 25 years, excellent performance for both low & high rates of discharge, rigid cell plates design type manufactured to conform to relevant latest IS/IEC.

#### A. 6.2. CAPACITY :

The capacity of the batteries shall be as follows :

- [i] Voltage. - 220V
- [ii] Output at 27° C - 350AH at 10 hrs. discharge rate.

The batteries shall normally remain under 'floating' condition with the 'trickle' charger supplying the continuous load. However, the batteries shall be capable of supplying the following loads under emergency conditions without any assistance from the chargers and without their terminal voltage falling below 198 V [90% of rated voltage]

- [i] I stage [continuous] - 350AH 35A for 10 hours.
- [ii] II Stage[ emergency] - continuous current of 35 Amps. plus light load of 10 Amps

**A. 6.3**-The number of cells for the 220 V batteries shall be of so chosen that for the nominal floating voltage of the cells, the battery set voltage shall be 237.5V and for the minimum [discharged condition] voltage of the cells, the voltage of the battery set shall not be less than 198V, while the assigned rating of the battery bank can not be less than its rated voltage of 220 volts.

### A. 7.0 DESIGN AND CONSTRUCTION DETAILS :

**A.7.1 Containers :** The containers for the cells shall be of high grade, impervious moulded transparent, with excellent thermal, chemical & impact resistance having heat-resisting, high strength, non-reacting, halogen free Styrene-Acrylonitrile (SAN) and low inflammable properties conforming to latest IS/IEC. The containers shall be mounted on insulators blocks. The containers shall be of robust

construction and free from flaws, bubbles or foreign matter. The surface of the containers shall have a finish substantially free from blisters, rough spots, scales, blow holes and other imperfections or deformations. The handle bars, if provided, shall be of such that sufficient sediment space shall be available and the batteries will not have to be cleared out during their normal life. Battery containers shall be subjected to type, Routine and Acceptance Tests as per the requirements of IS/IEC latest edition. The containers of the label attached firmly to the containers shall be marked with the information as per requirements of cl No. 2.2 of the above standard. The supplier's manufacturer's test certificates shall be submitted by the Bidder for the scrutiny of the purchaser.

**A.7.2 PLATES :**

- (a) **POSITIVE PLATES :** The positive plates shall be of pure lead. Structure made by pasting of active materials is not acceptable. It shall offer high resistance to corrosion. The plates shall be arranged in hanging/any other position inside the container, which will allow the growth extending superior ageing of the battery.
- (b) **NEGATIVE PLATES :** The negative plates shall be pasted antimonial-lead/lead alloy Grid plate type so designed as to hold the active material securely in place and in firm contact with the grid during service. The plates shall be designed for maximum durability and shall not buckle during all service conditions including high rate of discharge and the fluctuation of load.

**A.7.3 Separators:** The micro porous combined with pocket for positive plates separators shall be of synthetic material conforming to the latest edition of IS/IEC. These shall permit free flow of electrolyte and would not be affected by the chemical reaction inside the cell and shall last for indefinite time. The internal resistance factor of the separators shall assure high discharge characteristics under all operating conditions. Proper arrangement to keep end plates in position shall be furnished by the bidder alongwith his offer.

**A.7.4 Electrolyte:** The electrolyte (dilute sulphuric acid) shall be prepared from the battery grade sulphuric acid conforming to IS-266-1993 and shall have a specific gravity of 1.2 at 27°C. The sulphuric acid of battery grade shall be colourless liquid. The concentrated sulphuric acid on dilution with an equal volume of distilled water shall be free from suspended matter and other visible impurities. The sulphuric acid shall meet the requirements of columns – 4 and 5 Table –1 of IS-266-1993. The requisite quantity shall be despatched in non-returnable containers suitably packed and marked as per the requirements of the above Indian Standards. The container materials and packing shall be subject to approval of the purchaser.

Sufficient quantity of distilled water conforming to IS-1069-1993 shall be supplied in non-returnable containers to correct the level of electrolyte during initial testing and commissioning. The material of containers and packing shall be subject to the approval of the purchaser.

**A.7.5 Plate group bar with terminals:** The plate group bar with terminals shall conform to latest IS/IEC.

(a) **Terminal:** Leak proof safety pole with solid brass/lead insert & M10 stainless steel bolt. The nuts & Bolts should be of same materials.

(b) **Connectors:** Insulated solid copper/lead connectors shall be used.

The positive and negative terminals shall be clearly marked for easy identification. The legs of the plates of like polarity shall be connected to the load, turned to a horizontal group bar having an upstanding terminal post adopted for connection to the external circuit. The group bars shall be sufficiently strong to hold the plates in position.

**A.7.6 Buffers/spring:** Suitable buffers / springs shall be provided in the cells to keep the end plates in position. These shall have adequate length and strength.

**A.7.7 Cell lids:** Lids used with sealed or closed type cells shall be of glass, plastic or ebonite and shall be provided with vent plugs. Terminal post shall be suitably

sealed at the lid to prevent escape of acid spray, by means of rubber grommets, sealing compound or other suitable device. The positive and negative terminal posts shall be clearly and indelibly marked for easy identification.

**A.7.8 Water** :- Water used for preparation of electrolyte and also to bring the level of electrolyte to approximately correct height during operation / testing shall conform to relevant standards.

**A.7.9 Venting device** : The venting device(vent pug) shall be anti-splash, flame arrestor type and shall allow gases to escape freely but shall effectively prevent acid particles or spray from coming out. The length of insertion of vent pug shall be so arranged that will give high conductivity. Vent plug shall be maintenance free over entire service life. The safety vent plug shall have excellent gas drying properties, prevents emission of electrolyte or aerosols. It should be easily remove for cell inspection. There shall be two vent holes, one serving as a guide for acid level indicator for checking the electrolyte level and other to permit drawing of electrolyte samples, servicing, checking of specific gravity etc.

**A.7.10 Marking** : Acid level line shall be permanently and indelibly marked around on all the containers with maximum & Minimum.

The following information shall be indelibly marked on the outside surface of each cell :

- [i] Manufacturer's name, type and trade mark.
- [ii] Nominal voltage.
- [iii] AH capacity at 10 hours rate with specified end cell voltage.
- [iv] Cell number.
- [v] Upper and lower electrolyte level in case of transparent containers.
- [vi] Type of positive plate.
- [vii] Type of container.
- [viii] Date of manufacture [ month and year] or [week and year].

#### **A. 8.0. INSTALLATION OF BATTERY:**

**A.8.1** The battery set shall be installed on FRP coated steel/seasoned wood racks in a non-air-conditioned ventilated battery room . The Bidder shall offer racks and mounting insulators etc.

**A.8.2** The cell shall be arranged on the racks in a two-tier arrangement with two rows of cells on each tier or with some other suitable arrangement depending upon the availability of space inside the battery room. The lay out shall be subject to the approval of the purchaser. The wooden racks shall be constructed of best quality seasoned wood with at least three [3] coats of anti-acid paint of approved shade and also flame proof coating. Stand should have at least 5.0 mm FRP coating and the FRP coated shall be non-reactant to acid. The stand should be suitable for mounting on flat concrete floor & should be designed to withstand loading of the Battery set throughout its life. These racks shall be such that cells are located at convenient height to facilitate maintenance and they may be so constructed so as to promote free access to the floor directly beneath the rack to facilitate easy cleaning of the floor. These shall be designed and arranged in such a way that easy handling of the cells is possible while in operation. Numbering tags for each cell shall be attached on to the racks.

**A.8.3** The Bidder shall indicate and include the proposed arrangement of the batteries and include arrangement for fixing and mounting of inter-bank, inter-row, inter-cell and tap-off connectors etc.

#### **A9.0. CONNECTORS :**

Solid copper/ lead connectors with transparent cap for ease of inspection shall be employed for Inter-cell and inter-row, inter-tier connections. Possibility of voltage check through an opening of small size for allowing the pin of the lead of the millimeter can be inserted in the cap. However, the tee-off connection from the battery unit shall be made with acid resisting cables of suitable size. A suitable terminal box along with acid-resisting cable shall be provided by the Bidder for this purpose. The connectors shall preferably be of bolted type and the bolts and

nuts shall be of similar material as that of connectors and shall be provided with corrosion resisting lead coating.

The connectors shall be of sufficient cross-section to withstand all the working conditions including one minute discharge rate as well as short circuit conditions.

**A.10. ACCESSORIES :-**

The equipment and accessories, listed below shall be furnished as part of each battery and the price of the battery quoted shall be inclusive of these items.

- [a] FRP Steel /Wood racks with three coats of anti-acid paint and flame-proof coating.
- [b] Stand insulators (+20% extra.)
- [c] Cell insulators (+5% extra.)
- [d] All Cell inter-connectors and end take-offs.
- [e] Lead coated connection hardware such as bolts, nuts etc.5% extra.
- [f] Cell numbering tags with fixing arrangement.
- [g] Cable clamps with hardware.
- [h] Diluted sulphuric acid of required quantity and of specific gravity according to the relevant ISS and 10% extra shall be supplied in non-returnable acid proof containers, suitable packed.
- [I] Two numbers of Digital Multimeter of standard manufacturer.
- [j] Two number syringe type hydrometer complete with accessories and suitable for measuring SP gravity between 1.1 to 1.320 with graduation of 0.005 Sp. Gravity together with temperature correction charts.
- [k] Two number floating hydrometer.
- [l] Two numbers thermo-meters having range 0-100 deg. C whose one division of the graduated scale shall represent at the most 1 degree centigrade with separate gravity correction chart.  
[Accuracy of calibration shall not be less than 0.5°C]
- [m] One number wall mounting teak-wood for hydrometers and thermo-meters.
- [n] Two numbers acid-resisting plastic jugs [2 litre capacity]
- [o] Two numbers plastic funnels.
- [p] Two numbers rubber syphon.
- [q] Two numbers rubber aprons.
- [r] Two pairs of rubber gloves.
- [s] Two pairs of rubber boots-knee height.
- [t] Two sets special tools or tools required for connecting the terminals of the batteries.
- [u] The battery terminals shall be brought out in a junction box to be mounted on the battery stands.
- [v] Ampere-hour meter [10 hour discharge rate] of 600 –1250 AH range-1 no.
- [w] Any other accessories, not specified but required for installation, satisfactory operation and maintenance of batteries for a period of 5 [five] years.

**A.11.0 MAXIMUM SHORT CIRCUIT CURRENT :**

The Bidder shall state the maximum short circuit current of each battery along with the safe duration in seconds which it can withstand. Methods, proposed to be adopted for protecting batteries from the short circuit conditions should also be stated to avoid damage to the battery and loss to the associated equipment.

**A.12. VENTILATION:**

The bidder shall indicate in his bid the requirements of ventilation in the battery room. The battery shall operate satisfactorily over the entire range of the temperature and humidity indicted in this specification without affecting its normal life. Bidder shall indicate the percentage reduction in battery capacity at the lowest temperature of 27 deg C. If any special ventilation requirements are necessary, the same shall be indicated.

**A.13. CAPACITY:**

The standard Ampere-hour capacity at ten hour rate shall be 350 AH with an end cell voltage of 1.85 volts/cell.

**A.14. CHARGING:**

The bidders shall state whether an equalizing charge is recommended for the battery. If so, the equalizing charge voltage, current, duration and the interval between the equalizing charging shall be specified in the Data sheet. Bidder shall also indicate the requirements for boost charging. The trickle charge current should also be specified.

**A.15. LIFE:**

The bidder shall quote in his offer the guaranteed life of the battery when operating under the conditions specified. As per clause A 5.1 the bidder shall also furnish the life cycle of the battery indicating the capacity of the battery each year upto 20 years in a tabular form & also in a graphical form in standard operating condition.

**A.16. INSTRUCTION MANUALS:**

Eight sets of instruction manuals for installation, commissioning, charging and maintenance instruction along with its soft copies in CD/DVDs shall have to be furnished

**A.17. TRANSPORT:**

The batteries, accessories and racks etc. shall be suitably packed and transported to site.

**A.18. TESTS:**

**A.18.1 TYPE TESTS :** The bidder shall submit the test reports along with his offer for the following type tests, conducted on the offered samples as per relevant National Standard[s] within five years from the date of opening of the bid and test witnessed by any Government Department / Government undertaking, failing which the offer is liable for rejection.

- [a] Verification of constructional requirements.
- [b] Verification of dimensions.
- [c] Test for capacity.
- [d] Test for retention of charge.
- [e] Endurance Test.
- [f] Ampere-hour and watt-hour efficiency test.
- [g] Test for voltage during discharge.

If the type test report [s] does/do not meet the requirements as per this specification, OPTCL at its discretion may ask the supplier to conduct the above type tests [s] at the supplier's cost in the presence of OPTCL's representative without any financial liability to OPTCL

**A. 18.2 ACCEPTANCE TESTS :** Following shall constitute the acceptance tests which shall be test witnessed by the purchaser's representative at the works of the manufacturer at the cost of supplier.

- [i] Verification of marking.
- [ii] Verification of dimensions.
- [iii] Test for capacity for 10 hours discharge rate along with the Test for voltage during discharge.
- [iv] Ampere-hour and watt-hour efficiency test.

**A. 18.3.1** The Purchaser may at his discretion undertake test for capacity and voltage during discharge after installation of the battery at site without any extra cost.

**A. 18.3.2.** The supplier shall arrange for all necessary equipment including the variable resistor, tools, tackles and instruments. If a battery fails to meet the guaranteed requirement, OPTCL shall have the option of asking the supplier to replace the same within 15 [fifteen] days from the date of declaring the same to be insufficient/failed / not as per the specification [s].

**A. 19. DRAWINGS / DOCUMENTS:**

The Bidder shall submit the following drawings / documents along with his offer failing which the offer is liable for rejection.

- [a] General battery arrangement, proposed size of individual and over all dimensions along with sectional views showing all connections etc.
- [b] Pamphlets and technical literature giving detailed information of the batteries offered.

The manufacturer shall submit the following drawings / documents in 7 [seven] copies within 15[fifteen] days from the date of issue of the purchase order for purchaser's approval. :-

- [a] Lay out details of the batteries.
- [b] OGA and cross-sectional details for battery cells.
- [c] Instruction manuals for initial charging and subsequent charging.
- [d] Technical data, curves etc.

**A. 20. GUARANTEED TECHNICAL PARTICULARS :**

**The Guaranteed technical particulars, as called for in the 'Annexure - I & II shall be furnished along with the tender. Any tender lacking complete information in this respect is likely to be rejected.**

**ANNEXURE - I****SCHEDULE OF GUARANTEED TECHNICAL PARTICULARS  
FOR 220V VENTED LEAD ACID STORAGE BATTERY( PLANTE TYPE)**

[To be filled in by the bidder]

Values/Others

1.	Manufacturer's Name and address along with Fax No. & Tele phone No.	
2.	Conforming to standards	
3.	Type and designation as per ISS	
4.	Manufacturer's type and designation	
5.	AH capacity and voltage of the battery at 27 deg.C.	
[a]	At 10 hour rate of discharge.	
[b]	At 5 hours rate of discharge.	
[c]	At 1 hour rate of discharge	
[d]	At 1 minute rate of discharge.	
[e]	At ½ hour rate of discharge.	
6.	Open circuit voltage of each battery cell.	
[a]	Fully charged	
[b]	Floating condition.	
[c]	When completely discharged at.	
[i].	10hr. rate.	
[ii].	5 hour rate	
[iii]	1 hour rate	
[iv]	½ hr. rate	
[v].	1 minute rate	
[vi]	1-second rate.	
7.	Recommended float charging voltage [volts] across the battery terminals.	
8.	Recommended boost charging voltage [volts].	
9.	Time required for boost charging from discharged conditions [in hours]	
10.	Trickle charging	

	Current range/cell	
11.	AH capacity at 10 hour rate at 10 hour rate at room temperatures of :	
[a]	15 deg C.	
[b]	27 deg C.	
[c]	50 deg C.	
12.	CELL DETAILS	
[i].	No. of cells per battery	
[ii].	Total nos. of plates per cell.	
[iii]	No. of positive plates per cell.	
(iv)	Type of positive plate	
(v)	No. of negative plates per cell	
(vi)	Type of negative plate	
(vii)	Surface area of plates in sq. mm.	
(viii)	CONSTRUCTIONAL DETAILS AND DIMENSIONS OF	
(a)	Positive plate	
(b)	Negative plate	
(c)	Material of the container	
(d)	Thickness of the container	
(e)	Overall dimensions of each cell (LxBxH)	
ix.	Weight per Cell (Kg)	
(a)	Active elements-positive	
(b)	Active elements-Negative	
(c)	Container	
(d)	Net dry weight	
(e)	Weight with electrolyte	
x.	Distance between centre of cells where erected.	
xi.	Nominal cell voltage.	
xii.	Internal resistance of each cell at	
(a)	Fully charged condition	
(b)	Fully discharged condition	
(c)	Floating condition	
13.	Type, Thickness and materials of the separators	
14.	Containers	
(a)	Type	
(b)	Material	
(c)	Outside dimensions (LxBxH)	
15.	Cover and its type and material	
16.	Clearance in mm between	
(a)	Top of plates and top of container	

(b)	Bottom of plates and bottom of container	
(c)	Edges of plates and inner surface of container.	
17.	Sediment space (depth) in mm	
18.	ELECTROLYTE	
(a)	Amount of electrolyte and specific gravity at 27 deg. C for first filling.	
(b)	First filling per set with 10% of extra furnished.	
(c)	Electrolyte conforms to standard	
(d)	Rated specific gravity of electrolyte when fully charged at room's temperature of	
(i)	15 deg. C	
(ii)	27 deg. C	
(iii)	50 deg C.	
(e)	Specific gravity of electrolyte at the end of discharge at 10 hour discharge rate.	
(f)	Maximum electrolyte temp. that the cells can withstand without injurious effect.	
(i)	Continuously	
(ii)	For short period	
19.	INTER CELL CONNECTOR	
(a)	Whether Inter-cell connector to be furnished ? (Yes / No)	
(b)	Type of inter-cell connector (bolted or others)	
(c)	Materials of inter cell connector	
20. (a)	Inter row, inter-tier connectors and end take-off furnished ? (Yes / No)	
(b)	Description, size, current rating, type and material.	
21.	RACKS	
(a)	No. of racks per battery	
(b)	No. of cells per rack	
(c)	Type of racks (rows and tiers)	
(d)	Material of the rack	
(e)	Racks provided with	
(i)	Numbering tags for cell	
(ii)	Teak wood clamps for cables	
(f)	Whether anti-acid coating provided ?	
(g)	Description of rack insulators	
(h)	Outline dimensions of racks	

(i)	Net weight of racks		
(j)	Shipping weight		
22.	Recommended rate for charging the battery in 8 hours.	Start	Finish
(a)	Current		
(b)	Voltage		
23.	Recommended float charge rate		
24.	Resistance of the battery including inter-connector between the cells in ohms.		
25. (a)	Maximum short circuit current per battery		
(b)	Allowable duration of short circuit		
26.	Short circuit current for a dead short across the battery terminals when		
(a)	Float at 2.1 volts per cell.		
(b)	Boost charge to 2.75 volts per cell.		
27.(a)	Time to full charge at finishing rate only		
(b)	Time to full charge at higher starting rate		
(c)	Time for full charge to charge by two step charging at starting up and finishing rates		
28.	Guaranteed AH efficiency at 10 hour rate of discharge in percent.		
29.	Guaranteed WH efficiency at 10 hour rate of discharge in percent.		
30.	Instructions for filling and initial charging of the battery with finishing and two step charging rates.		
31.	Recommended interval at which battery should be discharged at 10 hour rate and quick charged.		
32.	Recommended floating voltage per cell and the minimum variation.		
33.	Recommended maximum period of storage before the first charge.		
34	Life cycle of Battery in year wise As per clause A 5.1		
35.	Average life in years		
36.	Guaranteed life of battery in years.		
37.	Estimated life of battery in years.		
38.	Total shipping weight of battery units		
39.	Dimensioned lay-out drawings of the rack and battery to be attached with the tender. (Whether furnished ? Yes / No)		
40.	The following characteristic curves, to be		

	furnished alongwith the tender (whether furnished)	
(a)	Battery discharge curves at various rates between one minute and 10 hour rate. (Yes / No.)	
(b)	Curves showing the relation between the specific gravity and amount of charge in the battery for both charging and discharging conditions. (Yes / No)	
(c)	Curves showing the relation between cell voltage and charging current when charged at	
(i)	Finishing rate (Yes/ No)	
(ii)	High starting rate (Yes/ No)	
(iii)	Two step charging by starting and finishing rate (Yes / No)	
(d)	Curve of internal resistance at the end of various discharge rates (Whether furnished (Yes / No)	

#### A. 21. BUY- BACK OF OLD BATTERY CELLS:

The Bidder will quote buy-back rates of old battery cells (different AH capacities), available at the following Sub-Stations of OPTCL in the State of Odisha. The scope of 'BUY-BACK' system includes the loading, transportation, taxes, duties, and any other statutory levies, rules and regulations, notified by Govt. of India/ Govt. of Orissa, or their Undertakings.

#### OLD BATTERY SET FOR DISPOSAL ON BUY BACK AFTER REPLACEMENT BY NEW BATTERY SET :

Sl. No.	Name of the Grid sub station	Make	Type	Rating	Old Battery Cells (will be available after replacement) in No.s
1	Grid s/s, Mancheswar	EXIDE	YKP25	300AH	110
2	Grid s/s, Kalarangi	EXIDE	YKP19	225AH	110
3	Grid s/s, Meramunduli	.....	.....	.....	.....
4	Grid s/s, Kuchinda	EXIDE	YKP29	350AH	110
5	ICCL Switching station, Choudwar	EXIDE	YKP19	225AH	110
6	Grid s/s, Kesura	EXIDE	YKP19	225AH	110
7	Grid s/s, Bolangir (old)	EXIDE	YKP19	225AH	110
8	Grid s/s, Bolangir (New)	EXIDE	YKP29	350AH	110

*The bidders are advised to inspect the old batteries, available in different Grid Sub stations prior to submission of their bids and the rate of the battery cell should be quoted in the prescribed price bid of this tender specification on AH basis. The bidder may also visit other Sub-stations of OPTCL and may quote for available Nos. of old battery cells on AH basis, stating the name of Sub-station, AH capacity of the cell, Nos. of cells etc. The old battery cells will be lifted by the bidder "AS IS WHERE IS BASIS" and the loading,*

transportation, taxes, duties and all other charges shall be borne by the Bidder. It should be noted that the bidder is to abide by all the rules, regulations, as prescribed by Govt. of India/ Govt. of Odisha in this respect.

The purchaser may at its discretion may postpone/terminate the ' BUY BACK OF OLD BATTERY CELLS, as the situation warrants or direct the bidder to lift old battery cells of similar type from other Grid Sub-stations or reduce the quantity of battery cells, to be sold on buy back system or free to the take any other decision, conducive to both the purchaser and the bidder.

**A.22. All deviations from the specification shall be separately listed, in the absence of which it will be presumed that the provisions of these specifications are complied with by the bidder.**

**ANNEXURE – III  
QUANTITY AND DELIVERY SCHEDULE**

Sl. No.	Description	Quantity required.	Desired delivery	Destination.
1	220 volt, 350 AH Vented Lead Acid Storage battery (Plante type)	8	Delivery to be completed within 4 months of placement of purchase order.	Any stores/sites within the ODISHA State. The same will be indicated in the Purchase order/Release order.

N.B.:- The detail delivery programme and quantity to be delivered will be intimated at the time of placement of the Purchase order/issue of release order.

Signature of the Bidder  
with seal and date.

**ANNEXURE – IV-A**

**(For Testing of Battery)**

**(To be filled in by the bidder)**

**CALIBRATION STATUS OF TESTING EQUIPMENTS AND INSTRUMENTS/ METERS**

Name of the Test	Meters & Equipment required for the corresponding test with range, accuracy, make & Sl. No.	Date of Calibration	Due date of Calibration	Name of the Calibrating Agency	Whether Calibrating Agency is Govt. approved	Whether documents relating to Govt. approval of the calibrating Agency furnished	Whether the meters/ equipment fulfil the accuracy class as per calibration report.	Whether the calibrating agency has put any limitation towards the use of the particular meter/ equipment. If yes, state the limitations	Whether the calibrating agency has put any limitation towards the use of the particular meter/equipment/ meter. State the colour of the affixed sticker	In spite of imposed limitations. Whether the particular meter / equipment can still be used? Justify its use for corresponding test(s)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

**Signature of the Bidder with seal & date**

**ANNEXURE V – A**

**(To be filled in by the bidder)**

**CHECK LIST TOWARDS TYPE TEST REPORTS FOR BATTERY**

Name of the Type Test	Date of Test	Name of the Laboratory where the Test has been conducted	Whether the Laboratory is Government approved	Whether the Test report is valid as per Spn.	Whether the Test report in complete shape along with drawings etc. furnished or not ?	Whether the type tested Plante lead acid battery fulfills the technical requirements as per TS	If the type tested battery does not fulfill the technical requirements as per this specification, whether the bidder agrees to conduct the particular type test again at their own cost without any financial liability to OPTCL in the presence of OPTCL's representative within the specified delivery period	Remarks
1	2	3	4	5	6	7	8	9

**Signature of the Bidder with seal & date**

**PART – II**  
**PRICE BID**

**1. PRICE:**

- (i)** Bidders are required to quote their price(s) for goods offered indicating they are 'FIRM'
- (ii)** The prices quoted shall be FOR Destination only at the consignee's site/store inclusive of packing, forwarding, Freight & Insurance. In addition, the break-up of FOR Destination price shall be given as per schedule of Prices in Annexure-V of Section – III. The Bidder has to certify in the price bid that benefit of Input Tax Credit, Lower Implication of Tax if any, has been fully passed on to the Purchaser, while quoting the tender prices.

**2. INSURANCE :**

Insurance of materials/equipment, covered by the Specification should normally be done by the Suppliers with their own Insurance Company unless otherwise stated. The responsibility of delivery of the materials/equipment at destination stores/site 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 equipment/materials damaged or lost which will be reported by the Consignee within 30 days of receipt of the equipments/materials at Destination without awaiting for the settlement of their claims with the carriers and underwriters.

**3. CERTIFICATE FOR EXEMPTION FROM GOODS AND SERVICES TAX:**

Offers with exemption from Goods and Services Tax shall be accompanied with authenticated proof of such exemption. Authenticated proof for this clause shall mean Photostat copy of exemption certificates, attested by Gazetted Officers of State or Central Government.

**4. PROPER FILLING UP OF THE PRICE SCHEDULE:**

- (i)** In case where Freight & Insurance charges are not furnished, 5% of the Ex-works price shall be considered as the freight & Insurance charges.

**(ii)** The Bidder should fill up the price schedule (Annexure-V of Section-III) properly and in full. The tender may be rejected if the schedule of **price is** submitted in incomplete form as per clause-34 (ix) of Section-II of the Specification.

**5. NATURE OF PRICE INDICATED IN SPECIFICATION SHALL BE FINAL.**

The nature of price indicated in the Clause-13, Section – I of PART –I of the Specification shall be final and binding.