

**Tender for  
Procurement of Uninterrupted Power Supply Systems (UPS)**



**ORISSA POWER TRANSMISSION CORPORATION LIMITED  
BHUBANESWAR**

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## **SECTION - I**

### **General Information to Bidders**

## **SECTION- I**

### **GENERAL INFORMATION TO BIDDERS**

**Name of the Project:**

#### **Procurement Of Uninterrupted Power Supply Systems (UPS)**

1. The Orissa Power Trading Corporation Ltd. (OPTCL) invites sealed bids from eligible bidders for the under mentioned project as per description and schedule of quantity given here below:

#### **UPS Equipments**

<b>Serial No</b>	<b>Description</b>	<b>Unit of Measurement</b>	<b>Quantity</b>
1	30 KVA On-Line UPS with 60 min. Battery Back Up	Nos	6
2	5 KVA On-Line UPS with 60 min. Battery Back Up	Nos	3
3	600VA Line Interactive UPS	Nos	135
4	12 V, 100 AH, Sealed Maintenance Free Batteries	Nos	40

#### **Services Components**

<b>Serial No</b>	<b>Description</b>	<b>Unit of Measurement</b>	<b>Quantity</b>
1	AMC Charges for 3 years after the warranty period for UPS Equipments	LumpSum	LumpSum

**Note: The end of life of all the UPS items quoted by the bidder should be a minimum ten years for items (1) & (2) and Six years for items (3) & (4) from the bid submission date.**

The **Scope of work** includes the Supply, Installation, Integration, Testing, Commissioning of the above-mentioned items and integrating the same with existing systems of OPTCL **on turn key basis** to provide uninterrupted power supply to OPTCL Data Center and for different floors of New Building of OPTCL Hqrs Office, Bhubaneswar and at, field Units, Zonal IT Centers and at different EHT Grid Substations situated throughout Orissa. It also includes annual maintenance contract for a period of three years after expiry of the warranty period for three years defined in the bidding document.

2. Interested eligible Bidders may obtain further detailed information on the tender in the bidding document issued by I.T Dept. OPTCL or under "Current Tenders" in our website [www.optcl.co.in](http://www.optcl.co.in).

3. A complete set of bidding documents may be purchased by any interested eligible bidder or their “authorised representative” on submission of written application to Chief General Manager(IT) and upon payment of non-refundable fee as indicated below, either in cash or by a demand draft payable to THE DRAWING AND DISBURSING OFFICER, OPTCL HEAD QUARTERS, BHUBANESWAR.
4. The bidding documents may be obtained from the office of the Chief General Manager (IT), OPTCL during office hours, from 10.00 hrs to 17.00 hrs. on all working days either in person or by post.

- |   |   |
|---|---|
| a) Price of bidding document:                           | IRs 10000/- (Indian Rupees Ten thousand only) (non-refundable)) + VAT   |
| b) Postal charges, inland :                             | Free of charge  |
| c) Postal charges, overseas :                           | Free of charge  |
| d) Date of commencement of Sale of bidding document :   | <b>29.01.2009</b>   |
| e) Last date of sale of bidding document :              | <b>17.02.2009</b>   |
| f) Last date and time for Receipt of bids :             | <b>17.02.2009, 13.30 Hours</b>  |
| g) Time and date of opening of Techno-commercial bids : | <b>17.02.2009, 16.00 Hours</b>  |
| h) Time and date of opening price bids :                | <b>24.02.2009, 16.00 Hours</b>  |
| i) Place of opening of bids :                           | Office of Chief General Manager (IT),<br>2 <sup>nd</sup> Floor, Bidyut Bhawan, OPTCL,<br>Janapth, Bhubaneswar – 751022. |
| j) Address for communication :                          | Chief General Manager (IT),<br>2 <sup>nd</sup> Floor, Bidyut Bhawan, OPTCL,<br>Janapth, Bhubaneswar – 751022.           |

5. Bid document can also be downloaded from our website as mentioned at clause-2 above. However, the bidder has to submit the cost of bidding document i.e. Rs.6000/- + VAT by Demand Draft payable to Drawing and Disbursing Officer, Headquarters office, OPTCL, Bhubaneswar. The DD must be issued by a nationalized bank **on or before the last date for sale of bidding documents**, as per Section-I.4(e).
6. All bids must be accompanied by a bid security (EMD) in the amount of Indian Rupees fifty thousand only (IRs 50,000/-), and must be delivered to the above office on or before 13.30 hrs. on last date for receipt of bids along with the Part – I (Techno-commercial bid) of the tender only.

The bid security may be submitted in one of the following forms:

- (a) a Bank Guarantee or irrevocable letter of credit issued directly by a nationalised bank, in the form provided in the bidding documents, or

- (b) a crossed bank draft/pay order/bank certified cheque drawn in favour of the Drawing and Disbursing Officer, OPTCL, Headquarters, Bhubaneswar.
7. Bids will be opened in the presence of Bidders or Bidder's representatives who choose to attend at the specified date and time. BIDDER's representatives should submit authorisation letter from the Bidder to OPTCL to attend opening of Bids.
- a) **Part-I of the bid (OPTCL-UPS-Techno-commercial Bid)** shall be opened on the stipulated date and time mentioned under clause 4(g) of the GENERAL INFORMATION TO BIDDERS.
- b) After technical evaluation, the **Part-II of the bid (OPTCL-UPS-Price bid)** of successful/eligible bidders shall be opened as per Schedule mentioned in 4(h) above or a latter date as may be decided by the purchaser.

The bidders shall be intimated the price bid opening date through Notice Board and through OPTCL's web site in case of any change in the date of opening of the price bid.

8. In the event of the date specified for bid receipt and opening being declared as a closed holiday for purchaser's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
9. OPTCL reserves the right to cancel/withdraw the invitation for bids without assigning any reasons and shall bear no liability whatsoever consequent upon such a decision.

## **10. QUALIFICATION OF THE BIDDER**

- 10.1** The bidder must be an OEM / Authorised Business Partner having a direct purchase and support agreement with the OEMs of the UPS Systems. The bidder should provide Manufacturer's **Authorisation Letter** for UPS Systems quoted (except the items for which the bidder itself is the OEM) along with the bid. **The Bidder should also submit declaration, as a mandatory requirement, by OEMs that the quoted items shall not be outdated within ten years of supply for 30&5 KVA UPS and shall not be outdated within six years for other items and that OEM renders necessary spares support to the Bidder.**
- 10.2** Bidder shall be financially sound and must not be anticipating any ownership change for three years from bid submission. **An undertaking to this effect shall be submitted by the Bidder.**
- 10.3** Bidder shall submit audited financial **reports** for at least three years (2005-06, 2006-07, 2007-08) preceding the date of bid submission. The annual turn over of the bidder shall not be less than **Rupees five crores** for above-mentioned financial years and estimated financial projection for the next three years.
- 10.4** Manufacturers shall have adequate design infrastructure, manufacturing facilities and capacity including quality control and after sales service facilities. **Statement** of such facilities in respect of items quoted shall be submitted by the Bidder duly endorsed by the OEMs.

10.5 Bidder shall provide satisfactory evidence to the Purchaser of their capability and adequacy of resources to carry out the Contract effectively. The bidder is to include the following with the bid.

- (a) **Copies of original documents** defining the constitution or legal status, place of registration and principal place of business; written power of attorney of the signatory of the bid to commit the bidder;
- (b) Performance as supplier of goods & Services of similar nature over the last three years, and **details of orders** executed.
- (c) **Description** of manufacturing facilities, if applicable.
- (d) The Bidder's key technical engineers should have OEM certifications to install and maintain the UPS equipment quoted by the Bidder. The **qualification and experience** of key personnel, at least 5 in number, should be provided who will look after this project.
- (e) **No subcontracting of the contract shall be entertained.**
- (f) Deleted.
- (g) **Evidence** of access to lines of credit, and availability of other financial resources.
- (h) **A list** of bidder's banks and authority to seek reference from the banks.
- (i) Information regarding any current litigation in which the bidder is involved, the parties concerned, and disputed amount; **Declaration** to be submitted.
- (j) Details of Quality Assurance Policy. **Policy** to be submitted.
- (k) The bidder shall give an undertaking as a part of this contract to provide technical consultancy and guidance at no extra cost to OPTCL for successful operation of the all the Power Supply Systems . **The Bidder shall submit an undertaking to this effect.**

10.6 In addition to the above the Bidder shall submit the following.

- (a) A **declaration** from the Bidder confirming that he shall supply all the active networking components/equipment from one OEM only.
- (b) A statement of year wise profit for the FYs 2005-06, 2006-07, 2007-08.
- (c) The OEM of the quoted products, must be an ISO 9001 and ISO 14001 certified **Manufacturer**. Bidder has to **submit photocopy** of the original certificate along with their bid.

- (d) The bidder must have established
- i) At least two nos of UPS installations of tendered capacities or more in I.T Data Center projects of value more than Rs.50 Lakhs during last three years.
  - ii) The documentary proof for the same must accompany the tender. The bidder should submit a list of important customers with documentary evidence along with tender.
- (e) The Bidder must have full-fledged service center at Bhubaneswar equipped with spare stock and certified manpower. Alternatively the bidder has to furnish maintenance arrangements through local maintenance organizations equipped with ready availability of spare parts and certified engineers to render maintenance support during warranty as well as post warrants period. The bidder should mention the address, contact person's name along with the contact number of this service center with the bid.
- (f) For all On-Line and Line Interactive UPS Power Systems, the bidder has to quote for 3 years comprehensive on-site warranty.
- (g) The bidder has to assure at least 10 years and 6 years life for the On-Line UPS and L I UPS/Batteries respectively.
- (h) Deleted.

#### 11. Manner to submit the bid

- a) Both Techno commercial Bid and Price Bid of the Tender shall be submitted with a forwarding letter duly signed in the bidders letter head and shall be neatly typed, clearly readable, free from cuts, over writings and erases etc. **Please see note below.**
- b) Amounts quoted in the Price-Bid mentioned in figures must be described in words also. In case of any ambiguity, the fact furnished in words shall only be considered.
- c) Any correction whatsoever in the bid shall be signed by the authorized person competent to sign the bid.
- d) Submission of the technical bid must be **indexed** properly in the chronological manner mentioned below failing which the bid shall be liable for rejection. **All the supporting documents in respect of Clause 10, Section –I shall be submitted by the Bidder.**
  - Forwarding letter duly signed by the bidder or their authorised signatory in bidders letter head.
  - Bank Guarantee / Irrevocable letter of credit / crossed bank draft / pay order / Bank certified cheque as the case may be towards EMD.
  - Authorisation certificate from OEM/Principal to execute the contract or submit the bid.
  - OEM's declaration that the equipment shall not be outdated for six(6) years and for necessary spare support to ASI.
  - Copies of audited financial report/ Balance Sheet for last 3 years in chronological manner i.e. 2005-06, 2006-07, 2007-08 each page duly numbered.



- Supporting documents to prove the capability of the bidder as required under Clause-10 of the Section-I “General Information to the Bidders”.
- Qualification and experience sheet for key Personnel.
- Proposal for sub contracting elements of supply.
- Evidence of access to lines of credit.
- Authority to seek reference from the bidders Banks.
- Information on current litigation.
- Details of quality assurance policy.
- Proposal of manufacturing method and schedule.
- Bidder’s undertaking to provide technical consultancy.
- Technical offer.
- Technical Deviation Statement.
- Check sheets.

**Note:**

- All the pages in the technical bid shall be numbered.
  - Information sheets shall be chronologically placed in the manner stated above.
  - **A proper index shall be furnished with starting page number of each category of document mentioned above.**  
**The techno commercial bid and price bid shall be hard bound and sealed in separate covers superscribing as “OPTCL-UPS – Technocommercial Bid due on 17-02-2009” and “OPTCL-UPS – Price Bid due on 24-02-2009” respectively. Both the sealed Bids shall be put in an envelope and sealed by super scribing as “Procurement of Uninterrupted Power Supply Systems”. The Techno commercial Bid shall also be provided on a CD in addition to Hard Copy as mentioned above.**
12. OPTCL reserves the right to accept or reject any tender with out assigning any reason there of.

## **SECTION - II**

### **Instructions to Bidders**

## **SECTION : II**

### **INSTRUCTIONS TO BIDDERS**

1. Sealed Tenders in duplicate on two part bid basis (each complete with all details in the manner specified together with drawings, test reports, descriptive literature if any) and declaration from duly signed are to be submitted in the Office of Chief General Manager (IT) Orissa Power Transmission Corporation Ltd., Bhubaneswar. Each part of the bid i.e. Techno-commercial Bid(part-I) and Price Bid (Part-II) shall be placed in separate covers duly sealed with the relevant Part No., Tender specification number and due date of opening indicated in the “Notice Inviting Tenders” duly super scribed on each cover.
2. The Specification is divided into six Sections:
  - i) Section-I : General Information to Bidders.
  - ii) Section-II : Instructions to Bidders.
  - iii) Section-III : General Conditions of Contract.
  - iv) Section-IV : Schedules of Requirements.
  - v) Section-V : Technical Specifications.
  - vi) Section-VI: Forms & Schedules etc.
3. These tender specifications cover the required quantity of materials. These quantities are to be supplied by the vendor on receipt of the order. The initial order will be supplied within the stipulated period. If required, the vendor may be additionally required to supply up to 25% of the initial ordered quantity within six months of the issue of the order without any change in the price and other terms and conditions of the original purchase order.
4. Tenders will be opened in the office of the Chief General Manager (IT) on the stipulated date and time in the presence of such of the tenderers or their authorized representatives (limited to one person) only as may desire to be present, at the time of opening the bids. The Chief General Manager (IT) or his authorized representatives, on opening each bid will read aloud the name of the bidder, price(s) quoted, overwriting and corrections if any in each page of Price bid when it is due to be opened.
5. 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 as better and more economical offer. All such deviations should however be clearly indicated giving full justifications for such deviation in a separate sheet(s) under “Deviations” title in the format described in Schedule-VI.
6. Only those who have purchased the Specification can submit their tender. Tenders submitted by others will be rejected.
7. The purchaser reserves the right to reject the lowest or any other tenders or all tenders without assigning any reason what so ever if it is considered expedient in the overall interest of OPTCL.

8. Tenders shall be submitted in person or by Registered Post with A.D or by Speed Post. Any other means of delivery shall not be accepted.
9. (i) Tenders received after due date and time shall be considered invalid.  
(ii) Telegraphic or Fax Tenders shall not be accepted under any circumstances.
10. (i) The tender shall be accompanied by Earnest Money Deposit of value specified under clause 4 in Section-I.  
**The Earnest Money** Deposit shall be offered in one of the following forms subject to the conditions mentioned below:
  - a) **Bank Draft:** To be drawn in favour of Drawing and Disbursing Officer, OPTCL Headquarters, Bhubaneswar – 751022.
  - b) **Bank Guarantee** from any Nationalised Bank as per enclosed proforma.  
  
The validity of any of the above guarantees shall be atleast 180 days from the date of opening of tender, failing which these tenders will be liable for rejection.
  - (ii) No interest shall be paid on Earnest Money Deposit.
  - (iii) No adjustment towards Earnest Money Deposit shall be permitted against any outstanding amount with OPTCL.
  - (iv) In the case of un-successful tenderer, the Earnest Money will be refunded immediately after the tender is decided. In the case of successful tenderer, this will be refunded only after furnishing of security money referred to Clause-24 Section–III. Suits, if any arising out of this clause shall be filed in a Court of law to which the jurisdiction of High Court of Orissa extends.
  - (v) Earnest Money will be forfeited if the tenderer fails to accept the letter of indent and / or Purchase orders issued in his favour as well as satisfactory completion of the project.
  - (vi) Tenders not accompanied by Earnest Money shall be dis-qualified.
11. The tenders should be kept valid for a period of **180** days from the date of opening of the tender as notified in the tender notice failing which the tenders will be rejected.
12. a) After opening of tenders and within the validity period no reduction or enhancement in price will be entertained. However, after opening of “Unpriced” bid if some modification of specification is agreed upon by OPTCL, Revised price offer will be considered. In such case revised offers will have to be submitted in separate sealed envelopes super-scribing “Revised Priced Bid” within 7 days of written notice to the bidder.

- b) If required, the tenderer may be requested to revalidate the tender after expiry of the validity period if required under the same terms and conditions as per original tender except for the change in delivery period, if necessary. In such an event the tenderers are free to change any or all conditions of their bids including price at their own risk.
13. Tenderers are expected to be fully conversant with the meaning of all the clauses of the specifications before submitting their tenders. In case of doubt regarding the meaning of any clause the tenderer may ask for clarification in writing from the Chief General Manager (IT) , OPTCL, Bhubaneswar. This however, does not entitle the tenderer to ask for time beyond due date fixed for receipt of tender.

14. **List of Documents to be submitted along with the Tender:**

The Bidder must submit the following documents along with the Tender failing, which the tender shall be treated as incomplete and liable for cancellation. The Bidder shall also comply with Clause 10 of Section I.

1. Bid Declaration Form.
2. Earnest Money Deposit (EMD)
3. Price Schedule (Section-VI)
4. Copy of required documents as per clause 10 in Section-I.
5. ISO 9001 , ISO 14001 Certificate.
6. Xerox copy of PAN.
7. Attested copy of TIN.
8. An undertaking to provide goods and services confirming to vendor specifications.
9. Credentials regarding experience in carrying out order for Online and Line Interactive UPS systems in Govt. or other reputed establishments for worth of more than Rs. 50 Lakhs or more in a single order.
10. Copy of purchase orders from Govt., PSU or reputed organizations showing order value for not less than Rupees 50 Lakhs in a single order. The bidder has to produce at **least two such orders** during last three consecutive years.
11. A list of important customers in last three years i.e. 2005-06, 2006-07 & 2007-08.
12. Technical literatures and original specifications sheets of each item offered.
13. Details of maintenance and support infrastructure at Bhubaneswar.
14. Manufacture ship /authorized system integrator ship certificate.
15. Attested copy of power of Attorney, if any.
16. Attested copy of partnership Deeds, if any.
17. Check list in respect of Technical Specification.
18. Check list in respect of General Compliance.
19. All other schedules provided in Bid document.

15. Tenderers shall quote for all the items under Section – IV: Schedule of Requirement. Tenders not quoted for all the items shall not be considered.
16. Tenderers are required to submit tenders in the following manner. All the documents/information relating to Part –I i.e Techno-commercial bid & Part – II i.e Price bid shall be placed in separate sealed covers. Both the separate covers duly super scribed as mentioned above i.e Part – I Techno-commercial bid & Part – II Price bid shall be kept in another sealed cover super scribed as Tender For " **Procurement of Uninterrupted Power Supply systems (UPS)**" as per dates specified in Clause- 4 in SECTION – I.

**NOTE: Schedule of prices in the prescribed Proforma in Section VI shall be placed in the “OPTCL-UPS - Price bid” envelope. All other documents as mentioned in Clause 14, Section – II shall be placed in the “OPTCL-UPS – Techno-commercial bid” envelope. Outer envelope should be sealed and super scribed as “Procurement of Uninterrupted Power Supply systems (UPS) ”.**

17. Conditional offers shall not be accepted.
18.
  - i) Over writing shall be avoided.
  - ii) Erasures and other changes shall bear the dated initial of the person signing the tender along with company seal.
  - iii) 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.
  - iv) For evaluation the price mentioned in words shall be taken as final, if there is any difference in figure and words in the price bid.

## **SECTION - III**

### **General Conditions of Contract**

**SECTION – III**  
**GENERAL CONDITIONS OF CONTRACT**

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## **SECTION - III**

### **GENERAL CONDITIONS OF CONTRACT (GCC)**

**1. SCOPE OF THE CONTRACT:**

The **Scope of work** includes the Supply, Installation, Integration, Testing, Commissioning of the items mentioned in Clause 1 under Section I and integrating the same with existing systems of OPTCL **on turn key basis** to supply uninterrupted power supply to OPTCL Data Center and for different floors of New Building of OPTCL Hqrs Office, Bhubaneswar and at various Business functional Data Center, field Units, Zonal IT Centers and at different EHT Grid Substations situated throughout Orissa. It also includes annual maintenance contract for a period of three years after expiry of the warranty period for three years defined in the bidding document, in accordance with the enclosed Technical Specification, bill of quantity and render technical services as per delivery schedule.

**2. DEFINITION OF TERMS:**

In writing these General Conditions of Contract, the Specification and bill of quantity, the following works shall have the meanings hereby indicated unless there is something in the subject matter or contract inconsistent with such constructions.

- 2.1 “The Purchaser” shall mean the ORISSA POWER TRANSMISSION CORPORATION LTD or OPTCL.
- 2.2 “The Engineer” shall mean the engineers 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 Contractor” shall mean the Bidder whose bid has been accepted by the Purchaser and shall include the Bidders executions, administrators successors and permitted agencies.
- 2.5 “Equipment” shall mean and include all machineries, apparatus, materials, articles and services to be provided under the contract by the contractor.
- 2.6 “Contract Price” shall mean the sum named in or calculated in accordance with the provisions of the contract as the “contract price” which shall include packing, forwarding freight, Insurance, Excise Duty, Sales Tax, Octroi and other taxes and duties if applicable.
- 2.7 “General Condition” shall mean these General Condition of Contract.
- 2.8 “The Specification” shall mean the specification annexed to or issued with the General Conditions and shall include the schedules and drawings attached thereto as well as all samples and pattern, if any.
- 2.9 “Month” shall mean of calendar month.

- 2.10 “Writing” shall include any manuscript, type written printed or other statement re-produced in any visible form and whether under seal or under hand.
- 2.11 “F.O.R. Destination” costs shall mean the cost of equipment and material at the consignee’s store. The cost is exclusive of Excise Duty, Sales Tax and other local Taxes, but is inclusive of packing, forwarding and insurance & Freight charges.
- 2.12 The “term” contract shall mean & include General Conditions, Specifications, Schedules, Drawings, form of tender, covering letter, schedule of prices or the final General Condition, any special conditions applying the particular contract, specifications and drawings and agreement to be entered in.
- 2.13 Terms and condition 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. GUIDELINES FOR THE BIDDER:**

The Contractor shall examine the instructions to Tenderers, General Conditions of Contract, Specification, the Schedules of Quantity and delivery and rest of the bidding document to satisfy himself as to all terms and conditions and circumstances affecting the contract price. He shall quote price (s) according to his own allowances except as otherwise provided therein will be levied. The purchaser shall not be responsible for any misunderstanding or incorrect information obtained by the contractor other than information given to the contract in writing by the purchaser.

**4. PATENT RIGHTS ETC:**

Any dispute arising in respect of copy right act for the equipment supplied by the vendor and used by the purchaser shall be the responsibility of the vendor and the purchaser in no way shall be held responsible in any form or court of law in this regard.

**5. MANNER OF EXECUTION:**

All equipment supplied under the contract shall be manufactured in the manner set out in the specification and to the reasonable satisfaction of the purchaser. All the IT equipment supplied by the contractor shall be new, unused and conforming to relevant standards.

**6. INSPECTIONS AND TESTING**

- 6.1 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser. The Purchaser shall notify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Supplier in writing, of the identity of any representatives retained for these purposes.
- 6.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of dispatch, and/or at the Goods’ final destination. If conducted on the premises of the Supplier or its subcontractor(s), all

reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.

- 6.3 Should any inspected or tested Goods fail to conform to the Specifications, the Purchaser may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- 6.4 The Purchaser's right to inspect, test, and where necessary, reject the Goods after the Goods' arrival at Project Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Purchaser or its representative prior to the Goods' shipment.
- 6.5 Nothing in GCC Clause 6 shall in any way release the Supplier from any warranty or other obligations under this Contract.

**NOTE:**

The inspection of the Goods shall be carried out to check whether the Goods are in conformity with the technical specifications attached to the contract and shall be in line with the inspection/test procedures laid down in the Technical Specifications and the General Conditions of Contract. Following broad test procedure will generally be followed for inspection and testing of equipment. The supplier will dispatch the Goods to the ultimate consignee after Purchaser's inspection and testing, approval of inspection report and manufacturer's warranty certificate. The Purchaser may again test the equipment after completion of the installation and commissioning at the site of the installation. For site preparation the supplier should furnish all details to the purchaser sufficiently in advance so as to get the works completed before receipt of the equipment. All On-Line UPS Systems for power supply to each floor and Data Center of the OPTCL new tower and at various zonal IT Centers and operation thereof shall be supplied, installed and commissioned properly by the supplier prior to commencement of performance/acceptance tests.

**7. DESPATCH INSTRUCTIONS:**

The Goods & Services to be delivered in this contract being of turnkey project in nature, the actual dispatch instruction shall be issued on mutual discussions in respect of delivery point, time, stocking mode etc.

**8. DELIVERY & INSTALLATION SCHEDULE:**

- a) Free delivery should be made at the place as specified in the firm's work order.
- b) The delivery period of *the items ordered, as specified, should not exceed 30 days* from the date of receipt of LOI/work order.
- c) *The Installation and commissioning of the items ordered should be completed within 4 (Four) weeks* from the date of delivery.

**9. MANUALS AND DRAWINGS**

- a) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals together with

drawings of the goods, equipment, UPS system architecture designs. These shall be in such detail as will enable the Purchaser to operate, maintain, adjust and repair all parts of the equipment as stated in the specifications.

- b) The manuals and drawings shall be in the English language and in such form and numbers as stated in the contract but not exceeding spiral-binded 5(Five) copies.
- b) Unless and otherwise agreed, the goods and services shall not be considered to be completed for the purpose of taking over until such manuals and drawings have been supplied to the Purchaser.

**10. DOCUMENTATION:**

The Supplier shall provide complete and legal documentation of all UPS System components with the associated software for server based UPS-health monitoring and control features in respect of Online UPSs. The supplier shall also indemnify the purchaser against any levies/penalties on account of any default in this regard.

**11. ACCEPTANCE TEST:**

The installation and commissioning will be considered as complete only after it passes successfully through the acceptance test.

(i) The acceptance test will be conducted by the Purchaser, their consultant or any other person nominated by the Purchaser, at its option. The acceptance will involve trouble-free integrated operation of all items of supply for seven consecutive days. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part should occur. No missing modules/sections will be allowed. The Supplier shall maintain necessary log in respect of the results of the tests to establish to the entire satisfaction of the Purchaser. An average uptake efficiency of 100% for the duration of test period shall be considered as satisfactory. All On-Line and sampled Line Interactive Power System items, as decided by IT, OPTCL, shall be subjected to acceptance test procedures for drawing conclusions in this regard.

(ii) In the event of the UPS Power Systems of the Contract failing to pass the acceptance test, a period not exceeding **ten days** will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserves the rights to get the equipment replaced by the Supplier at no extra cost to the Purchaser.

(iii) Successful conduct and conclusion of the acceptance tests for the installed goods and equipment and configured services shall also be the sole responsibility and at the cost of the Supplier.

**12. ACCEPTANCE CERTIFICATES:**

- a) On successful completion of acceptability test, receipt of deliverables etc, and after the purchaser is satisfied with the working of the system, the

acceptance certificate signed by the supplier and the representative of the purchaser will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the systems and services.

- b) The training as per Clause 42 of General Conditions of Contract shall be conducted on the dates mutually agreed upon and within a month from the date of acceptance of supply.

### **13. SUPPLIER'S OBLIGATIONS**

- (i) The Supplier is obliged to work closely with the Purchaser's staff, act within its own authority and abide by directives issued by the Purchaser during implementation activities.
- (ii) The Supplier will abide by the job safety measures prevalent in India and will free the Purchaser from all demands or responsibilities arising from accidents or loss of life during installation and commissioning activities. The Supplier will pay all indemnities arising from such incidents and will not hold the Purchaser responsible or obligated.
- (iii) The Supplier is responsible for managing the activities of its personnel or sub-contracted personnel and will hold itself responsible for any misdemeanours.
- (iv) The Supplier will treat as confidential all data and information during the execution of his responsibilities and will not reveal such information to any other party without the prior written approval of the Purchaser.

### **14. SITE PREPARATIONS**

The Purchaser is solely responsible for providing the storage, installation and commissioning site for the establishment of the UPS Systems in compliance with the technical and environmental specifications defined by the Supplier. The Purchaser will designate the installation sites before the scheduled installation date to allow the Supplier to perform a site inspection to verify the appropriateness of the sites before the establishment of the Power systems.

### **15. UPS POWER SYSTEMS INSTALLATION**

The Supplier is responsible for all unpacking, assemblies, installation, wiring, installations, cabling between supplied UPS Systems and connecting to existing power supply terminal, control software installation on the designated server and integrating UPS to server through SNMP facility. The Supplier will test all UPS Systems operations and accomplish all adjustments necessary for successful and uninterrupted supply and operation of the UPS Systems under this Contract.

### **16. CONTRACT'S DEFAULT LIABILITY:**

- i) The purchaser may upon written notice of default to the contractor terminate the contract in circumstances detailed hereunder.
  - a) If in the judgment of the purchaser, the contractor fails to make delivery of equipment within the time specified in the contract or within the period for which extension has been granted by the purchaser, to the contractor.
  - b) If in the judgment of the purchaser, the contractor fails to supply with any of the other provisions of this contract.

- ii) In the event purchaser terminates the contract in whole or in parts as provided in Clause-1 Section-I, the purchaser reserves the right to purchase upon such terms and in such a manner as he may deem appropriate, equipment similar to that of terminated and the contractor will be liable to the purchaser for any additional costs for such similar equipment and/or for penalty for delay as defined in Clause-25 Section –III until such reasonable time as may be required for the final supply of equipment. Execution of contract under such circumstances shall however be on express written willingness of both the parties.
- iii) In the event the purchaser does not terminate the contract as provided in Clause – 16 (i) above, Contractor shall continue the performance of the contract, in which case he shall be liable to the purchaser for penalty for delay as set out in Clause-25 Section –III until the equipment is accepted. Execution of the contract under such circumstances shall however be on express written willingness of both the parties.

**17. REJECTION OF MATERIALS:**

In the event on any of the materials/ equipments supplied by the contractor is found defective in materials or workmanship or otherwise not in conformity with the requirements of the contract specification, the purchaser shall reject the materials/equipments and request the contractor in writing to rectify the same. The contractor on receipt of such notification shall either rectify or replace the defective equipment free of cost to the purchaser. If the contractor fails to do so within 30 days of written notice, the purchaser may

- (i) At its option replace or rectify such defective equipment and recover the extra costs so involved from the contractor and/or
- (ii) Terminate the contract for balance work/supplies, with enforcement of penalty as per contract.
- (v) Acquires the affected equipment/materials and services at reduced price considered equitable under the circumstances.

The contractor shall not be allowed any extension in contract completion period due to time taken to replenish the rejected material/work.

**18. EXTENSION OF TIME:**

If the delivery of equipment/materials is delayed due to reasons beyond the control of the contractor, the contractor 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 agree to extend the contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract.

**19. WARRANTY**

- (i) The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract and all the Services configured shall render trouble free function. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Purchaser's specifications) or from any act or omission of the Supplier, that

may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

(ii) This warranty shall remain valid for thirty-six (36) months after the Goods, **inspected 100%**, have been delivered, commissioned and accepted at the final destination indicated in the Contract or 40 months from the date of 100% inspection and delivery which ever is earlier.

**(iii) The free comprehensive support during the warranty period will include the following:**

- a) The vender shall rectify the fault within 24 hours from the time of registration of the call.
- b) System readjustment and/or system changing-over support on occasions of reconfiguration and/or upgrade and extensions if any.
- c) The vendor shall be responsible for any defects that may arise out under normal usage due to faulty materials attached to the system, designing lacuna or poor workmanship. The vendor shall have to take immediate remedial measure for such defects at his own cost when called upon to do so by the Purchaser.
- d) The vendor should also guarantee that the equipment and its accessories supplied are complete and fully compatible in every respect, and conform to technical specifications of design, material and workmanship mentioned in the quotation. The vendor should also guarantee that the equipment and its accessories supplied would perform satisfactorily as per requirements mentioned in the specification.
- e) Deleted.
- f) Deleted
- g) Deleted
- h) In case of violation of any of the conditions of warranty (for three years). The Composite Bank Guarantee shall be invoked by OPTCL. In case the violation of the condition of warranty is not set right by the vendor, the Composite Bank Guarantee shall be extended beyond three years for which the vendor shall request the banker for the same. The formalities for extension of warranty should be completed well in advance of the expiry of warranty period by the vendor/bidder, otherwise OPTCL will be forced to invoke the said Composite Bank Guarantee.

(iv) If any equipment gives continuous trouble, say six times in one month, during the warranty period, the Supplier shall replace the equipment with new equipment without any additional cost to the Purchaser.

(v) In case, the downtime of a unit exceeds 24 hours and the fault is not rectified or faulty equipment not replaced within stipulated period as detailed in clause – 19 (iii (b)) above, a penalty of Rs.50/- per day per



faulty non central unit and Rs.1000/- per day per faulty central unit(30 KVA) and Rs.200/- per day per faulty central unit(5 KVA) will be charged respectively and will be recovered from the performance guarantee or from any sum thereafter that may become due to the vendor out of this contract or any other contract with OPTCL, Bhubaneswar. 24 hours or part thereof beyond the stipulated downtime shall be counted as a full day for calculation and imposition of penalty. **Units such as On-Line 30 KVA and 5KVA UPS Systems etc which lead to a central point failure in the event of a unit failure, jeopardizing functioning of the Organization's I.T, are treated as central units for this purpose.**

- (vi) The vendor shall provide quarterly preventive maintenance to all the equipment under this project.

In case of the firm fails to conduct the quarterly preventive maintenance of any equipment / component under this project during the warranty period, a penalty of 10% of the AMC amount of equipment for the quarter for the 1<sup>st</sup> year of AMC period mentioned in the tender by the firm shall be levied. The penalty amount shall be deducted from the Composite Bank Guarantee of the firm or from any sum that may become due to the vendor

**NOTE:** The penalty will be adjusted from the Composite Bank Guarantee till it exceeds 50% of the guarantee amount at which point, the Chief General Manager (IT), OPTCL reserves the right to cancel the contract. In such cases, the full amount of Composite Bank Guarantee shall be forfeited to the OPTCL.

**20. PRICE:**

- (i) Bidders are requested to quote their FIRM price only for each individual item covered under schedule of requirement. No price variation shall be entertained at any time during the contract period.
- (ii) All prices quoted must be firm and valid for 180 days from the date of opening of the commercial bid.
- (iii) All prices quoted shall not be affected by any escalation in prices of labor or materials, machinery, equipment, etc. or in rupee exchange rate during the price validity period whatsoever. However duties, levies, or taxes in respect of finished products will be at the rate prevalent at the time of delivery. In cases where the prices offered are included in basic product, the same should be mentioned against all those specific items.
- (iv) The prices shall be FOR Destination only at the consignees store(s) inclusive of packing, forwarding, freight and insurance. In addition, the break up of destination price shall be given as per Schedule of prices in Section - VI.
- (v) Where ever the issue of foreign exchange is involved due to import of materials from a country other than India, the same shall be paid by the vendor. Import License, marine freight, insurance, customs duty, surcharge, port handling and clearing charges etc. all shall be vendors account and purchasers shall not be responsible in any way in this regard. All such costs shall be presumed to have been included in unit prices under column No.5 of Price Schedule in Section – VI.

**21. IMPORT LICENCE:**

In case imported materials are offered no assistance will be given for Import License or release of Foreign Exchange. The firm should arrange to import materials from their own quota.

**22. VALIDITY:**

Prices and conditions of sale of the offer should be valid for a period of 180 days from the date of opening of the tender. However, the tenderer shall confirm in writing in the tender in this regard, otherwise, must mention his validity period in writing in the tender failing which the tender shall be rejected.

**23. TERMS OF PAYMENT:**

- (i) 75% of the material cost shall be paid subject to the following :
  - (a) On receipt of the approved material inspection report in respect of the material supplied.
  - (b) On receipt of the material by consignee in good condition.
  - (c) On joint verification of the material supplied.
  - (d) On receipt of pre-receipted bills and delivery challans in quadruplicate towards material supplied.
- (ii) 15% of the material cost shall be paid only after completion of the whole job on turnkey basis and delivery of all deliverables as per the purchase order / contract and furnishing the Composite Bank Guarantee.
- (iii) After completion of the job, pre-receipted bills towards balance of payment of the contract in quadruplicate along with necessary delivery challans and related documents should be submitted to the authority for arranging the payment.
- (iv) No advance payment in any form will be made.
- (v) Handling of foreign exchange component and customs clearance, if any, must be taken care of by the bidder.
- (vi) The supplier shall furnish Bank Guarantee of appropriate amount to OPTCL covering 10% (Composite Bank Guarantee) of contract price for release of balance 10% payment. For this purpose the contract price shall mean firm price. The BG shall be kept valid for a period of 40(forty) months from the date of delivery of the I.T Items or 36(thirty six) months from the date of successful completion of installation of the I.T Items, whichever is earlier.

**24. COMPOSITE BANK GUARANTEE :**

A composite Bank Guarantee at the rate of 10% (Ten percent) of the value of the total project shall be furnished from any Nationalised/Scheduled Bank to the Chief General Manager (I.T), OPTCL within 30 (thirty) days of issue of the purchase order, executed in a non-judicial stamp paper worth of Rs.100/- (Rupees one hundred) only subject to change as per Orissa Stamp Duty Act valid for a period of 42 (forty two) months from the schedule date of delivery of last lot strictly as per proforma enclosed, towards security, 100% payment and performance guarantee purposes failing which the purchase order will be treated as cancelled. In the event of any breach or default in all or any of the conditions set forth and provided in the purchase order, the purchaser may forfeit the whole amount of the composite bank guarantee. The forfeiture of the composite Bank guarantee shall not in any way effect, limit or extinguish any remedy or relief to which the above authority may at any time be lawfully entitled.

No interest will be payable on Composite Bank Guarantee amount.

**25. SERVICE LEVELS AND PENALTIES TOWARDS NON PERFORMANCE**

Delay in execution of any supply order against this tender shall attract penalty. All the Uninterrupted Power System devices and batteries supplied, installed and integrated for OPTCL under the contract must be up and functioning all the time. Each of the device/component forming part of the Contract is referred to as unit. Every unit being integral part, failure of any unit shall also attract penalty.

i) Liquidated damages

For delay in execution of the contract beyond the stipulated period, liquidated damages @ 0.5% (half percent) for every week of delay or part thereof shall be realized subject to a maximum of 5% of the contract price. The liquidated damages may also be calculated only on the cost of item that are required to be supplied. However, in any case it shall be open to Chief General Manager (IT), OPTCL for final decision in this regard which shall be binding on the contractor.

j) Force Majeure Clause

If at any time, during the continuance of this contract, the performance in whole or in part is delayed by reason of:

- Any war or hostility
- Act of public enemy, civil commotion, sabotage, explosions
- Effect of flood, epidemics, quarantine restrictions, freight embargoes
- General strikes, Bandhs
- Acts of God

herein after referred to as EVENT, neither party shall, by reason of such EVENT, be entitled to terminate this Contract, nor shall any party have any claim to the damages against the other in respect of such non-performance or delay in performance – provided that notice of happening, of any such EVENT is given by either party to the other within seven days from date of occurrence of the EVENT.

Expected Services and goods deliverable under this Contract shall resume as soon as practicable after such an EVENT comes to an end or ceases to exist. The decision of the Purchaser as to whether the situation has become normal or not, shall be final and conclusive.

If the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such EVENT for a period exceeding 60 days, either party may, at their option, terminate this contract.

**26. INSURANCE:**

Insurance of Stores covered by this specification shall be done by the suppliers with their own insurance 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. In case the replacement of damaged item/part is not done within 30 days, the material shall be treated as not delivered and shall attract penalty till replacement as per clause under heading "Rejection of Materials".

**27. PAYMENT DUE FROM THE CONTRACTOR:**

All costs and damages for which the contractor is liable to the purchaser, will be deducted by the purchaser from any money due to the contractor under the contract or through the composite Bank Guarantee submitted by him.

**28. 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.

**29. SALES TAX, INCOME TAX CLEARANCE, BALANCE SHEET AND PROFIT AND LOSS ACCOUNT:**

Sales Tax certificate and PAN should be enclosed with the tender along with Balance Sheet and P&L statement for the three preceding financial years.

**30. CERTIFICATE FOR EXEMPTION FROM EXCISE DUTY:**

Offers with exemption from Excise Duty shall be accompanied with authenticated proof of such exemption. Authenticated proof for this clause shall mean Photostat copy of exemption certificate.

**31. DEVIATION FROM SPECIFICATION:**

It is in the interest of the tenderers to study the specification, drawings etc. specified in the tender schedule thoroughly before tendering so that, if any deviations are made by the tenderers the same are prominently brought out in the body of their tender. A list of deviations shall be enclosed to the Tender. Unless deviations in scope, technical and commercial are specifically mentioned in the list of deviations, it shall be presumed that the tenderer has accepted the conditions in the Tender Specification in toto, notwithstanding any exemptions mentioned also else where in the tender.

**32. RIGHT TO REJECT/ACCEPT ANY TENDER:**

The purchaser reserves the right either to reject or to accept any or all tenders. The purchaser has exclusive right to alter the quantities of materials 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 the above action.

**33. CONTRACTOR'S RESPONSIBILITY:**

Notwithstanding any thing mentioned in the specification or subsequent approval or acceptance of the purchaser, the ultimate responsibility for design of materials and satisfactory performance shall rest with the tenderers.

**34. EVALUATION OF BIDS:**

In comparing bids and in making awards the purchaser may consider such factors as compliance with specifications, relative quantity, land adaptability of supplies or services, experience, financial soundness, records of integrity in dealings, performance of materials/equipments earlier supplied, utility 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. All costs incidental to execution of the Turn Key Project shall be taken into consideration in addition to the above for evaluation of offers.

**35. MINIMUM QUALIFICATION CRITERIA OF BIDDERS:**

All the prospective bidders are requested to note that their bids can only be considered for evaluation only if they fulfill all the required criteria mentioned in the General Information to Bidders in the tender. Bidders, who do not fulfill these criteria, need not submit their bids.

**36. LANGUAGE AND MEASURES:**

All documents pertaining to the contract including specifications, schedule, notices, correspondences, 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.

**37. CORRESPONDENCES:**

- (i) Any notice to the contractor under the terms of the contract shall be served by Registered mail or by hand at the contractor's principal place of business.
- (ii) Any notice to the purchaser shall be served at the OPTCL's principal office in the same manner.

**38. LEGAL ADDRESS OF THE PARTIES:**

The address of the parties to the contract shall be specified.

**PURCHASER:**

Chief General Manager (IT), Orissa Power Transmission Corporation Ltd.  
2<sup>nd</sup> Floor, Bidyut Bhawan, Janapath,  
Bhubaneswar – 751 022, Orissa, India

**CONTRACTOR:**

(TO BE FILLED BY THE TENDERER)

**39. OUT RIGHT REJECTION OF TENDERS:**

Tenders shall be rejected if they are not complying with the following requirements:

1. Tenderer should have purchased the specification from the office of the purchaser or if down loaded from OPTCL's web site, must have submitted the tender paper cost as per the instruction under clause-5 in the Section-I for "Notice Inviting Tenders".
2. Tenders shall be submitted in person or by Regd. Post with A.D or by Speed Post.
3. Tenders shall not be submitted telegraphically or by Fax.
4. Tenders shall be accompanied by the prescribed earnest money deposit.
5. Tenders shall be kept valid for a period of 180 days from the date of opening of tender.
6. Tenders shall be submitted in two parts only.
7. Tenders shall be accompanied by a list of major supplies effected in the last three (3) years prior to the date of opening of tender.
8. The tender shall be accompanied by PAN, TIN, Photostat copy of latest Sales Tax clearance certificates. Normally such certificates should have been issued for the year 2008-09.
9. The schedule of prices should be filled up fully carefully to indicate the break-up of prices including taxes and duties. (Section – VI).
10. Tenderers shall fulfill the minimum criteria as laid down under clause 10.6 under Section-I.

**40. COPY RIGHT PROTECTION OF TENDER DOCUMENT:**

The contractor shall treat the details of the Specification and other Tender documents as private and confidential and they shall not be reproduced without written authorization from the purchaser.

**41. POST WARRANTY MAINTENANCE:**

- (i) The bidder shall provide post warranty maintenance soon after the warranty period is over for a period of three years.
- (ii) A Bank Guarantee of 2% of the cost of the total project (excluding Annual Maintenance Charges) shall be furnished from any Nationalised/ Scheduled Bank to Chief.General Manager (I.T), OPTCL, Bhubaneswar before completion of the warranty period executed in a non-judicial stamp paper worth of Rs. 100/- (Rupees One hundred) only subject to change as per Orissa Stamp Duty Act. Valid for a period of 37 (Thirty Seven) months from the date of commencement of AMC period.

No interest will be payable on the Bank Guarantee.

- (iii) The annual maintenance charges shall be paid in quarterly installments at the end of each quarter.
- (iv) The firm has to conduct quarterly preventive maintenance of each equipment/component of the project.

In case of the firm fails to conduct the quarterly preventive maintenance of any equipment /component of the project, a penalty of 10% of the AMC charges of the equipment for the quarter shall be deducted from the AMC charges.

- (v) The compressive warranty support & penalties on downtime thereof shall be applicable as specified under the Clause: 19 WARRANTY mentioned above.
- (vi) The Purchaser reserves the right to terminate the maintenance and repairs contract, after the warranty period, at any time without assigning any reasons and the Supplier cannot claim any compensation in this respect.

#### **42. TRAINING**

The supplier shall provide exhaustive training on UPS Systems in terms of both hardware and software in supplier's premises to Four (4) engineers of OPTCL in On-Line and Line Interactive UPS Systems after receiving the firm order at mutually agreed time. Such a training shall be of two days period.

Also hands-on training has to be imparted to Six (6) engineers by the supplier or their principals during the course of implementation of the Contract to make them conversant with On-Line and Line Interactive UPS Systems architecture, Maintenance and making them capable of troubleshooting at a future date, if need be. Such a training shall be for four days.

The materials for training should be exhaustive and detailed modules of training course shall have to be provided by the successful bidder after the signing of agreement and placing work order.

## **SECTION - IV**

### **Schedule of Requirements**



## **SECTION - IV**

### **Schedule of Requirements**

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2	Service Components	
3	Delivery Schedule	

## SECTION - IV Schedule of Requirements (SOR)

The purchaser's quantity requirement of the materials covered under the schedule is as indicated below.

### 1. UPS Equipment

Serial No	Description	Unit of Measurement	Quantity
1	30 KVA On-Line UPS with 60 min. Battery Back Up	Nos	6
2	5 KVA On-Line UPS with 60 min. Battery Back Up	Nos	3
3	600VA Line Interactive UPS	Nos	135

### 2. Services Components

Serial No	Description	Unit of Measurement	Quantity
1	AMC Charges for 3 years after the warranty period for UPS Equipments	LumpSum	LumpSum

**Note:**

- i) The end of life of all the UPS items quoted by the bidder should be a minimum Six(6) years from the bid submission.

### 3. Delivery Schedule

The above-mentioned IT equipment against this contract are to be delivered to be delivered at different locations as per the following .

Sl. No.	IT Components Description	Qty	Delivery Details
1	30 KVA On-Line UPS with 60 min. Battery Back Up	6	OPTCL Hqrs Office, Bhubaneswar
2	5 KVA On-Line UPS with 60 min. Battery Back Up	1	At Zonal IT Center, OPTCL, Burla
		1	At Zonal IT Center, OPTCL, Rourkela
		1	At Zonal IT Center, OPTCL, Balasore
3	600VA Line Interactive UPS	80	As Per Annexure-I
		55	As Per Annexure-II
4	12 V, 100 AH, Sealed Maintenance Free Batteries	40	OPTCL Hqrs Office, Bhubaneswar

**This is tentative delivery schedule. A final delivery schedule shall be communicated along with Purchase Order.**

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**DELIVERY SITE DETAILS**

<b>Sl No.</b>	<b>Name of Substation</b>	<b>Qty (No)</b>	<b>Name of Consignee and Address</b>	<b>Contact Telephone No</b>
1	ASKA	1	S.D.O./Manager, 132/33 KV Grid S/S, Aska, Near College Square, Po. Nuagaon, Dist. Ganjam	06822-273643
2	ANGUL	1	S.D.O./Manager, 132/33 KV Grid S/S, Near Hensarpada, Dist. Angul	06764-230669
3	AKHUSINGI	1	S.D.O./Manager, 132/33 KV Grid S/S, Po. Akhusingi, Near Mardiguda, Dist. Rayagada, Orissa	06857-265046
4	BALASORE	1	S.D.O./Manager, 220/132/33 KV Grid S/S, Balasore, At. Januganja Golai, Dist. Balasore	06782-263765
5	BALUGAON	1	S.D.O./Manager, 132/33 KV Grid S/S, Balugaon, At/Po. INS Chilika, Dist. Khurda	06756-2270131
6	BARGARH	1	S.D.O./Manager, 132/33 KV Grid S/S, Baragarh, Dist. Baragarh	06646-234318
7	BARIPADA	1	S.D.O./Manager, 132/33 KV Grid S/S, Baripada, At/Po. Takatpur, Baripada-757003	06792-252719
8	BARKOTE	1	S.D.O./Manager, 220/33KV S/S, Barkote, At/Po Barkote. Dist. Deogarh.	9437534507
9	BERHAMPUR	1	S.D.O./Manager, 132/33 KV Grid S/S, Digapahondi Road, First Gate, Berhampur-6, Dist. Ganjam	0680-2270825
10	BHADRAK	1	S.D.O./Manager, 132/33 KV Grid S/S, Bhadrak, At/Po. Gelpur, Via-Madhavnagar, Dist. Bhadrak-756181	06784-240269
11	BHANJANAGAR	1	S.D.O./Manager, 220/132/33 KV Grid S/S, Bhanjanagar, At. Kanteipall, Po. Badapada, Via-Gobara, Dist-Ganjam-761124	06821-255267
12	BHUBANESWAR	1	S.D.O./Manager, Post: Mancheaswar Railway Colony, Bhubaneswar-751017	
13	BIDANASI	1	S.D.O./Manager, 220/132/33 KV Grid S/S, Bidanasi, Near Rotary Eye Hopital. Cda, At/Po. Bidanasi, Dist. Cuttack-753014	0671-2363821
14	BOLANGIR	1	S.D.O./Manager, 132/33KV Grid S/S, Bolangir, At-Laltikira, Po-Rajandra College Square, Dist-Bolangir-767002	06652-250791
15	BOLANI	1	S.D.O./Manager, 132/11KV S/S Bolani, At/Po. Bolani, Dist. Keonjhar.	9937336438
16	BOINDA	1	S.D.O./Manager, 132/33 KV Grid S/S, Boinda, At. Jamunali, Po. Boinda, Dist. Angul	06763-255301
17	BRAJARAJNAGAR	1	S.D.O./Manager, 132/33KV Grid S/S, Brajaraj Nagar, Near Ramja At/Po-Brajaraj Nagar Dist-Jharsuguda, 768216	06645-242026
18	BUDHIPADAR	1	S.D.O./Manager, 220/132/33KV Grid S/S, Budhipadar At-Katapali Via/Dist-Jharsuguda	06645-270003
19	BURLA (KATAPALLI)	1	S.D.O./Manager, 220KV Grid S/S, Katapalli, PO. Burla, Dist. Sambalpur.	
20	CHAINPAL	1	S.D.O./Manager, 220/132 KV Grid S/S, Chainpal, At/Po. Chainpal, Dist. Angul	06760-249064
21	CHANDAKA	1	S.D.O./Manager, 220/132/33 KV Grid S/S, Chandaka At-Chandaka Near KIIT, Bhubaneswar Dist-Khurda	0674-2725946
22	CHANDIKHOLE	1	S.D.O./Manager, 132/33KV Grid S/S, Angul, Near Nuaa Sunguda Village, Po. Chandikhole, Dist. Jajpur-754024	06725220561
23	CHATRAPUR	1	S.D.O./Manager, 132/33KV Grid S/S, Chatrapur, At. Putigopalpur,	6811-262458

			Dist. Ganjam	
24	CHHEND	1	S.D.O./Manager, 132/33KV Grid S/S, Chhend, Po.Luhakera, Rourkela-9, Dist Sundergarh.	0661-2641076
25	CHOUDWAR	1	S.D.O./Manager, 132/33/11KV Grid S/S, Choudwar, Po. Kapileswar, Dist. Cuttack	0671-2492218
26	CUTTACK	1	S.D.O./Manager, 132/33 KV Grid S/S, Cuttack, At.Balisahi, Po. Madhupatna, Cuttack-10	0671-2340496
27	DHENKANAL	1	S.D.O./Manager, 132/33 KVGrid S/S, Dhenkanal, At/Po. Gundichapada, Dist. Dhenkanal- 759025	06762-228874 9438253873
28	DIGAPAHANDI	1	S.D.O./Manager, 132/33 KVGrid S/S, Degapohandi, Podamari Road, At/Po. Digapohandi, Dist. Ganjam – 761012	06814-247688
29	DUBURI	1	S.D.O., 220/132/33 KV Grid S/S, Dubri, At. Gobaraghati, Po. Dubri, Dist. Jajpur	9437628763
30	DUBURI(NEW)	1	S.D.O./Manager, 220/132/33 KV Grid S/S, Dubri, Dist. Jajpur	
31	GANJAM	1	S.D.O./Manager, 132/33 KV Grid S/S, Ganjam, At/Po. Jayashree Chemical, Dist. Ganjam, Pin- 761025	06811-254327
32	ICCL (CHOUDWAR)	1	S.D.O./Manager,132KV Switching Station,Choudwar At.ICCL, Po.Kapaliswar	
33	JAGATSINGHPUR	1	S.D.O./Manager, 132/33 KV Grid S/S, Jagatsingpur, Near Stadium, At/Po. Jagatsingpur, Dist. Jagatsingpur	06724-220409
34	JAJPUR ROAD	1	S.D.O./Manager, 132/33 KV Grid S/S, Jajpur Road, At. Sobra, Po. Jajpur, Dist Jajpur – 755019	06726-220320
35	JAJPUR TOWN	1	S.D.O./Manager, 132/33 KV Grid S/S, Jajpur Town, Optcl,Ne College Road (Laliteswarnagar) At/Po. Jajpur Town, Dist. Jajpur - 755001	9861010562
36	JALESWAR	1	S.D.O./Manager, 132/33 KV Grid S/S, Jaleswar, At. Nuabazar, Po. Jaleswar, Dist. Baleswar	6781-222330
37	JAYANAGAR	1	S.D.O./Manager, 220/132/33KV Grid S/S,Jayanagar, EHT(O&M),OPTCL, At.Jayanagar,PO. Jaipur , Dist Koraput-764005	06854-231028
38	JHARSUGUDA	1	S.D.O./Manager, 132/33 KV Grid S/S, Jarsuguda, At. Sarasmal Power House, OPTCL, Po. Jharsuguda – 768201	6645-270020
39	JODA	1	S.D.O./Manager, 220/132/33 KV Grid S/S, Joda OPTCL, At/Po. Joda, Dist. Keonjhar	6767-272205
40	JUNAGARH	1	S.D.O./Manager, 132/33 KV Grid S/S, Junagarh, At. Kuruguda, Po. Bhairiguda, Dist. Kalahandi – 766014	6672-243043
41	KALARANGI	1	S.D.O./Manager, 132/33 KV Grid S/S, Kalarangi OPTCL, Po. Kalarangi, Kaliapani, Dist. Jajpur	9437988986
42	KAMAKHYANAGAR	1	S.D.O./Manager, 132/33 KV Grid S/S, Kamakhyanagar, At/Po. Kanpura, Dist. Dhenkanal – 759018	06769-270658
43	KENDRAPARA	1	S.D.O./Manager, 132/33 KV Grid S/S, Kendrapada, Po. Pandiri, At. Duhuria, Dist. Kendrapada, Orissa – 754211	06727-220278
44	KESINGA	1	S.D.O./Manager, 132/33 KV Grid S/S,Kesinga EHT(O&M) OPTCL, At/Po. Kesinga, Dist. Kalahandi – 733012	06670-222049 9437427463
45	KHARIAR	1	S.D.O./Manager, 132/33 KV Grid S/S,Khariar, At/Po. Near. Bhojpur. Dist. Nuapada-767001	9437132398
46	KHURDA	1	S.D.O./Manager, 132/33 KV Grid S/S, Khurda, At. Khurda TLC Colony, Po. Khurda, Dist. Khurda	06755-220557
47	MERAMUNDALI	1	S.D.O./Manager, 440/220/132 KVGrid S/S, Meramundali, Kontabania, Po. Kushpinga, Via- Meramundali, Dist. Dhenkanal	06764-229699
48	MOHANA	1	S.D.O./Manager, 132/33 KVGrid S/S, Mohana, At/Po. Mohana, Dist. Gajapati – 761015	06816-258329
49	NARENDRAPUR	1	S.D.O./Manager, 220/132/33 KVGrid S/S, Narendrapur, At/Po.	0680-

			Sanakurhathali OPTCL, Narendrapur, Dist. Ganjam	2404099 9437159459
50	NAYAGARH	1	S.D.O./Manager, 220/33 KV Grid S/S, Nayagard, At. Rajpatana, Po. Mandhatapur, Dist. Nayagarh – 752079	06753- 256448 9438013542
51	NIMAPARA	1	S.D.O./Manager, 132/33 KV Grid S/S, Nimapada, Po.Digala Via Nimapadav Dist. Puri	9238709555
52	NUAPATNA	1	S.D.O./Manager, 132/33 KV Grid S/S, Nuapatna At/Po.Nuapatna Dist. Cuttack	06723- 238217
53	PARADEEP	1	S.D.O./Manager,220/132/33KV Substation,Paradeep At/Po. Paradeep Garh	
54	PARLAKHEMUNDI	1	S.D.O./Manager, 132/33 KV Grid S/S,Parakhemundi, Near New Bus Stand, Po. Paralakhemundi, Dist. Gajapati-761200	06815- 223231
55	PATAMUNDAI	1	S.D.O./Manager, 132/33 KV Grid S/S, Pattamundai, At/Po.Beltal, Dist. Kendrapara	06729- 220338
56	PATNAGARH	1	S.D.O./Manager, 132/33 KV Grid S/S,Patnagarh, Near Rampur, Po. Patnagarh, Dist. Bolangir	06658- 222405
57	PHULBANI	1	S.D.O./Manager,132/33KV S/S,Phulbani, At.KatabalisahiPo.Contractorpada.Dist.Kandhamal	06842- 253375
58	POLASPONGA	1	S.D.O./Manager,132/33KV S/S,Polasponga,Po.Jumpura Dist.Keonjhar,Pin-758031	9437334726
59	PURI	1	S.D.O./Manager, 132/33KV Grid S/S,Puri Po.Baliguali, Balighat Chawk, Dist-Puri	06752- 250739
60	RAIRAKHOL	1	S.D.O./Manager,132/33KV S/S,Rairakhol, At/Po.Rairakhol,Dist. Sambalpur	9937330168
61	RAIRANGPUR	1	S.D.O./Manager, 132/33KV Grid S/S,Rairangpur Po.Rairangpur Dist-Mayurbhanj-757043	06794- 222098
62	RAJGANGPUR	1	S.D.O./Manager, 132/33KV Grid S/S,Rajgangpur Near-OCL Clay Gate Po.Rajgangpur Dist-Sudargarh-770017	06624- 220489
63	RANASINGHPUR	1	S.D.O./Manager, 132/33 KV Grid S/S,Ranasinghpur, Po.Sarakantara, Dist-Khurda-751019	0674- 2471257
64	RAYAGADA	1	S.D.O./Manager, 132/33KV Grid S/S,Rayagada Near Siriguda Po.JSCO Rayagada-765002	06856- 235035
65	RENGALI	1	S.D.O./Manager,220/33KV S/s,Rengali,At/Po.Rengali Dam Site,Dist. Angul	06760- 277513
66	ROURKELA	1	S.D.O./Manager,132/33Kv S/s, Rourkela, At. Near Power House, Rourkela Pin-759001	9437246669
67	SAINTALA	1	S.D.O./Manager, 132/33KV Grid S/S ,Saintala At.Sikhatrapali Po.Kumaraloga Via.Saintala Dist-Bolangir-767032	06655- 250832
68	SAMBALPUR	1	S.D.O./Manager, 132/33 KV Grid S/S, Sambalpur, At. Bohidar Nuapalli, Po. Sankarma, Via.Remed. Dist. Sambalpur-768006	0663- 2540823
69	SONEPUR	1	S.D.O./Manager,132/33KV S/S, Sonapur,Dist.Sonapur.	9437201230
70	SORO	1	S.D.O./Manager, 132/33KV Grid S/S,Soro,At. Natapada, Po. Radhaballavpur, Via. Soro,Dist. Balasore-756045	06788- 221074
71	SUNABEDA	1	S.D.O./Manager, 132/33KV Grid S/S, Sunabeda At/Po.Sunabeda-2 Dist.Koraput-763002	06853- 220314
72	SUNDARGARH	1	S.D.O./Manager, 132/33KV Grid S/S,Sundargarh Near Rd Office, At/Po.Sankara, Dist-Sundargarh	06622- 274527
73	TARKERA	1	S.D.O./Manager, 220/132 KV Grid S/S,Tarkera, At/Po. Panposh Rourkela-4	0661- 2664479
74	TENTULIKHUNTI	1	S.D.O./Manager, 132/33 KV Grid S/S, Tentulikhunti, At/Po. Tentulikhunti, Dist. Nabarangpur-764070	06858- 228653
75	THERUVALLI	1	S.D.O./Manager, 220/132/33KV Grid S/S,Theruvalli Po.Theruvalli Dist-Rayagada	06856- 230010
76	SALEPUR	1	S.D.O./Manager	

77	MENDHASALA	1	S.D.O./Manager, 132/33KV S/S, Mendhasala, PO. MENDHASALA, DIST KHURDA	
78	BALIMELA	1	S.D.O./Manager,Balimala Power House,At/Po. Balimela,Dist.Malkangiri	
79	IT OPTCL (2 Nos.)	2	S.O,General Stores,OPTCL,Janpath, Bhubaneswar,Po.Bhoinagar,Dist Khurda,Pin-751022	
<b>Total</b>		<b>80</b>		

**OPTCL Field Unit Details For Delivery**

Sl No.	Name Of the Unit	Qty
1	GM, STORES CIRCLE, BHUBANESWAR	1
2	EHT(STORE) DIVISION, BHUBANESWAR	1
3	EHT(O&M) DIVISION, JAJPUR ROAD	1
4	EHT(O&M) CIRCLE, JAJPUR ROAD	1
5	EHT(O&M) DIVISION, BERHAMPUR	1
6	EHT(O&M) CIRCLE, BERHAMPUR	1
7	AREEAR CLEARANCE CELL, TTPS	1
8	EHT(O&M) DIVISION, BURLA	1
9	EHT(O&M) CIRCLE, BURLA	1
10	E&MR DIVISION, DHENKANAL	1
11	EHT(O&M) DIVISION, THERUVALI	1
12	LDTC DIVISION, TTPS, TALCHER	1
13	EHT(O&M) DIVISION, JODA	1
14	EHT(CONST.) DIVISION, JEYPORE	1
15	EHT(CONST.) DIVISION, JHARSUGUDA	1
16	EHT(CONST.) DIVISION, BOLANGIR	1
17	EHT(O&M) DIVISION, BALASORE	1
18	EHT(O&M) DIVISION, ROURKELA	1
19	E&MR DIVISION, BERHAMPUR	1
20	EHT(O&M) DIVISION, RENGALI	1
21	EHT(O&M) DIVISION, KESINGA	1
22	EHT(O&M) DIVISION, CHAINPAL	1
23	EHT(CONST.) DIVISION, BALASORE	1
24	EHT(CONST.) DIVISION, CUTTACK	1
25	EHT(CONST.) DIVISION, ANGUL	1
26	E&MR DIVISION, ROURKELA	1
27	EHT(STORE) DIVISION, JHARSUGUDA	1
28	LDTC DIVISION, BERHAMPUR	1
29	E&MR DIVISION, BURLA	1
30	EHT(O&M) DIVISION, BHUBANESWAR	1
31	EHT(O&M) DIVISION, CHOUDWAR	1
32	LDTC DIVISION, BHUBANESWAR	1
33	SR. GM POWER SYSTEM, MANCHESWAR	1
34	CETP, BHUBANESWAR	1
35	EHT(O&M) CIRCLE, CUTTACK	1
36	TELECOM CIRCLE, BHUBANESWAR	1
37	EHT(CONST.) DIVISION, BHUBANESWAR	1
38	CIVIL WORKS CIRCLE, BHUBANESWAR	1
39	EHT(CONST.) CIRCLE, BHUBANESWAR	1
40	E&MR DIVISION, BHUBANESWAR	1
41	EHT(STORE) DIVISION, RAYAGADA	1
42	E&MR DIVISION, RAYAGADA	1



43	EHT(O&M) DIVISION, BHANJANAGAR	1
44	EHT(O&M) DIVISION, JEYPORE	1
45	EHT(O&M) DIVISION, BOLANGIR	1
46	TELECOM DIVISION, ROURKELA	1
47	EHT(O&M) CIRCLE, CHAINPAL	1
48	EHT(O&M) CIRCLE, JEYPORE	1
49	CIVIL WORKS DIVISION, BHUBANESWAR	1
50	CIVIL WORKS DIVISION, BURLA	1
51	EHT(CONSTN.) CIRCLE, SAMBALPUR	1
52	TELECOM DIVISION, BHUBANESWAR	1
53	S.O GENERAL STORES, BHUBANESWAR	3
	<b>Total</b>	<b>55</b>

## **SECTION - V**

# **TECHNICAL SPECIFICATIONS**

## **CONTENTS**

1. Introduction
2. Scope
3. 30KVA On-Line UPS
4. 5KVA On-Line UPS
5. 600VA LI UPS
6. 100AH, 12V Batteries

## 1 INTRODUCTION:

Orissa Power Transmission Corporation Limited is planning to strengthen its IT infrastructure by establishing wide area connectivity among all its business functional units such as Corporate office, Circle, Divisional offices and its EHT Grid Substations. In order to fulfill this objective OPTCL is going for the procurement of various On-Line and Line Interactive Uninterrupted Power Supply Systems.

## 2 SCOPE

*The scope of work for includes the supply, installation and commissioning of 30 KVA and 5Kva On-Line UPS systems along with the Line Interactive UPS Systems at field offices and substations that will include the following:*

- Supply and installation of the 4(Four) nos of 30KVA On-Line UPS systems for all the four floors of the OPTCL's new Tower Building at Bhubaneswar. **All the above mentioned 4(Four) nos of 30 KVA UPS systems along with the individual Battery banks shall have to be well accommodated and installed inside the specified UPS Room of indicative dimensions max. 14'x 9' .**
- Supply and installation of the 2(Two) nos. of 30KVA ON-Line UPS Systems in the Data Center of OPTCL . **The above mentioned 2(Two) nos of 30 KVA UPS systems along with the individual Battery banks shall have to be well accommodated and installed inside the specified Data Center UPS Room of dimension max. 12'x 9' .**
- Supply and installation of the Line Interactive UPS Systems at different Field Business functional offices(Annexure-II) and also at all the EHT Substations of OPTCL(Annexure-I).
- Systems Integration, performance fine-tuning of the On-Line UPS Systems.
- Comprehensive on-site warranty for the products supplied for a period of 3 years.
- Commitment for rendering AMC for 3 years beyond warranty.

### **NOTE:**

- (i) *The vender shall ensure integration of all the items supplied through this tender with that of existing Electrical Supply System Infrastructure of OPTCL to reflect smooth and uninterrupted power supply from user point of view.*

### 3 30KVA ONLINE UPS WITH 1 HOUR BACKUP WITH INSTALLATION

Sl.N .	Items	Specifications
<b>1.</b>	<b>Technology</b>	<p><b>True On line Double conversion IGBT based Rectifier and IGBT based inverter.</b></p> <p>Input &amp; output EMI Filter to be provided</p> <p><b>Galvanic Isolation Transformer should be provided for both Bypass supply and Input supply</b></p>
<b>2.</b>	<b>Input</b>	
2.1	Rated voltage	400 VAC three-phase + N
2.2	Voltage Range	± 20%
2.3	Frequency Range	45 - 65 Hz
2.4	Power Factor	> 0.9
2.5	Harmonic Distortion	<5%
<b>3.</b>	<b>By Pass</b>	
3.1	Static Bypass switch	A Build in static transfer switch shall be provided as integral part of the UPS
3.2	Rated Voltage	400 VAC
3.3	Number of Phases	3 + N
3.4	Permitted voltage range	± 15% (selectable from ± 10% to ± 25% from front panel)
3.5	Rated Frequency	50Hz
3.6	Permitted Frequency Range	± 2% (selectable from ± 1% to ± 5% from front panel)
3.7	Transfer Time	0 ms
<b>4.</b>	<b>Batteries</b>	
4.1	Type	Sealed Maintenance Free VRLA
4.2	Backup Time	60 mins.
4.3	Battery Make	Exide Power Safe
4.4	DC Bus Voltage	384 V or more
4.5	Total VAH	38000 VAH or more on each UPS
4.6	Recharge Time	4-8 Hrs.
4.7	Temperature Control & Battery Charging	The system should compensate for any variations in temperature while recharging the batteries. The recharge voltage should be temperature depended
4.8	Automatic Battery Test	The UPS should carry out battery tests automatically.
<b>5.</b>	<b>Output</b>	
5.1	Active Power	Should be 24 KW (30 KVA)
5.2	Number of Phases	3 + N
5.3	Rated Voltage	380 – 400 – 415 (selectable)
5.4	Crest Factor (I <sub>peak</sub> /I <sub>rms</sub> )	3 : 1
5.5	Waveform	Sinewave
5.6	Static stability	± 1%
5.7	Dynamic Stability	± 5% in 5 ms
5.8	Frequency	50Hz
5.9	Overload	110% for 5 Hrs., 125% for 10 mins., 150% for 1 min.
<b>6.</b>	<b>Protection</b>	
6.1	Back Feed Protection	The back feed protection should be installed in series with bypass SCRs.
6.2	Normal Protection	Input, output, rectifier input, battery fuse, bypass fuse, short circuit etc. Thermal on system, rectifier, bypass and inverter. Protection against profound battery discharge
<b>7.</b>	<b>Environment</b>	
7.1	Dimension (HWD)	UPS indicative dimensions shall not be more than - 1500 mm x 700 mm x 900 mm
7.2	Operating Temp.	0 – 40° C
7.3	Relative Humidity	<95% non condensing
7.4	Noise	≤60dBA at 1 m
7.5	Protection Rating	IP 20

<b>8.0</b>	<b>Display and Software</b>	
8.1	List of the information output on the LCD Display	Input Voltage Input Frequency Input Power By-pass Voltage By-pass Frequency Output Voltage Output Frequency Output Power Output Peak Power Battery Voltage Battery Peak Pulse Current Battery discharge current Inverter Input Voltage Internal temperature (system / converter / Bypass/ Inverter/ magnetic Components) Inverter Operation Time By-pass operation time Battery Operation Time No. of battery interventions No. of complete discharges Date of first activation
8.2	Commands	Battery Test Display Contrast By-pass Off End discharge pre-alarm System Off
8.3	Customization	Output Voltage Output Voltage Compensation Batteries Line – interactive operating mode End discharge pre-alarm Auto off By-pass voltage tolerance By-pass frequency tolerance Modem
<b>9.</b>	<b>Efficiency</b>	
9.1	Inverter Efficiency	95% or better
9.2	AC/AC Efficiency	91% or better
<b>10.</b>	<b>Other Important Points</b>	
10.1	Reliability of the System	The total system (Charger & Inverter section) should be controlled by redundant microprocessor system. If a fault should occur to either of the microprocessors, the power supply to the protected load should not be interrupted
10.2	Self Diagnostics	Event log with minimum 125 messages, measurements & alarms should be available from the front LCD
10.3	Auto Restart Facility	The UPS should be configured to automatically restart after a mains supply failure or after the batteries have become fully discharged
10.4	Standards	The system should comply the following safety & International standards:  EN 62040-1, EN 62040-2 & EN 62040-3 ISO-14001, EN 50091-2,EN,IEC 61000-3-2,IEC 61000-3-3.
10.5	Certification	ISO 9001, ISO 14001
10.6	Remote Management	SNMP card required for remote management.
11	Warranty	<b>3 year comprehensive on-site warranty, including labour, and parts &amp; batteries.</b>

## 4 5 KVA ONLINE UPS WITH 1 HOUR BACKUP WITH INSTALLATION

Sl.N .	Items	Specifications
1.	<b>Technology</b>	<p><b>True On line Double conversion, IGBT based Rectifier and IGBT based Inverter.</b></p> <p><b>Galvanic Isolation Transformer should be provided for both Bypass supply and Input supply</b></p>
<b>2.</b>	<b>Input</b>	
2.1	Input Source	Mains/Local DG set Compatibility
2.2	Rated voltage	Single Phase 230 V
2.3	Voltage Range	165 V – 265 V
2.4	Frequency Range	47.5 Hz to 52.5 Hz
2.5	Power Factor	> 0.9
<b>3.</b>	<b>By Pass</b>	
3.1	Bypass switch	A Bypass transfer switch shall be provided as integral part of the UPS
3.2	Rated Voltage	230VAC, 1 Phase
3.3	Rated Frequency	50Hz
<b>4.</b>	<b>Batteries</b>	
4.1	Type	Sealed Maintenance Free VRLA
4.2	Backup Time	60 mins.
4.3	Battery Make	Exide Power Safe
4.4	Battery Blocks	12V SMF
4.5	Total VAH	7500 VAH or more on each UPS
<b>5.</b>	<b>Output</b>	
5.1	Active Power	Should be 3.5 KW (5 KVA)
5.2	Number of Phases	1
5.3	Rated Voltage	230 V
5.4	Waveform	Sinusoidal
5.5	Out voltage Regulation	+/-1%, for 100% Static Load, +/-5% dynamic 100% load change,
5.6	Crest Factor (I <sub>peak</sub> /I <sub>rms</sub> )	3 : 1
5.7	Static stability	± 1Hz
5.8	Frequency	50Hz
5.9	Overload	110% for 5 Hrs., 125% for 10 mins., 150% for 1 min.
5.10	Transfer time in normal mode	0
5.11	Overall efficiency	>90%-100% Load
<b>6.</b>	<b>Protection</b>	
6.1	Emergency Power Off	Emergency Power Off (EPO) to be provided
6.2	Operating temperature	0 to 40 0 C
6.3	Relative humidity	95% non-condensing
6.4	LED Display	The UPS should have LED panel for Inverter fault, Charger fault, Low battery, On battery, On mains, Bypass status
6.5	Communication	RS 232 interface
6.6	Agency Approvals	ISO-14001, ISO-9001, EN 50091-2,EN/IEC 62040-3,IEC 61000-3-2,IEC 61000-3-3.
6.7	Battery Recharging time	Should be 10 Hrs and if required need to provide the proper external charger.
6.8	Remote Management	SNMP card required for remote management.
7.0	Warranty	<b>3 year comprehensive on-site warranty, including labour, and parts &amp; batteries.</b>

## 5 600 VA LINE INTERACTIVE UPS WITH 20 MINUTES BACKUP WITH INSTALLATION

Sl.No.	Items	Specifications
1.	<b>Technology</b>	600 VA UPS should have built in automatic voltage regulator.
2.	<b>Input</b>	
2.1	Voltage Range	160-280 Volts
2.2	Frequency Range	47 - 53 Hz
3.	<b>Batteries</b>	
3.1	Type	Sealed Maintenance free, leak proof, replaceable, reputed make. Specify make.
3.2	Backup Time	Minimum 20 minutes on for a standard PC (15" CRT Monitor)
4.	<b>Output</b>	
4.1	Voltage	220-240 Volts $\pm$ 8%
4.2	Waveform	Sinewave
4.3	Transfer Time	Less than 10 millisecond
4.4	Sockets	3 pin 6Amp Indian type sockets- 3 + 1 for Surge protection
4.5	Frequency	50 Hz
4.6	Wattage	Min.350 W
5.	<b>Protection</b>	
5.1	No-load shutdown	to be present in battery back up
5.2	Overload Protection	to be present
5.3	Surge Protection	Must be available
6.	<b>Environment</b>	
6.1	Dimension (HWD)	UPS indicative dimension should not be more than - 350 mm x 100 mm x 150 mm with
6.2	Net Weight	7 Kg Maximum
6.3	Noise	Less than 40 dBA from a distance of 1 meter
7.	<b>Display</b>	
7.1	LED Indicators	ON Mains, ON Battery, Low Battery, Fault / Overload
7.2	Audible Alarm	Mains Fail (slow beeping), Low Battery (rapid beeping), Fault / Overload
8.	Manuals	To provide User manual
9.	Warranty	<b>3 year comprehensive on-site warranty, including labour, and parts &amp; batteries.</b>
10.	Agency Approvals	ISO-14001, ISO-9001

## 6 12V, 100AH, SMF VRLA BATTERIES

Sl.No.	Items	Specifications
1.	Voltage	12 Volts
2.	Capacity	100 AH
3.	Type	Sealed Maintenance Free VRLA Batteries
4.	Preferred Makes	Exide/Amar Raja/Panasonic

**CHIEF GENERAL MANAGER (IT)**



## **SECTION –VI**

### **FORMS & SCHEDULES Etc.**

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**Procurement of Uninterrupted Power Supply Systems (UPS)  
BID FORM**

To:

Chief General Manager (IT),  
Orissa Power Transmission Corporation Limited  
2<sup>nd</sup> Floor, Bidyut Bhawan, Janpath,  
Saheed Nagar, Bhubaneswar- 751 022

Ladies and/or Gentlemen,

Having examined the bidding documents, including Addenda Nos. .... (insert numbers), the receipt of which is hereby acknowledged, we, the undersigned, offer to supply and deliver the equipment, accessories & associated services under the Contract “**Procurement of Uninterrupted Power Supply Systems (UPS) ”** in conformity with the said Bidding Documents for the sum of \_\_\_\_\_ (Total Bid Amount in Words and Figures) or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our bid is accepted, to deliver the Goods in accordance with in the stipulated delivery period as mentioned in the Bidding Documents.

If our bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to 10% (ten percent) of the Contract Price for the due performance of the Contract, in the form prescribed by the Purchaser.

We agree to abide by this bid for a period of 180 days from the date fixed for bid opening under Clause - 4 “General Instruction to Bidders”, and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

Until a formal contract is prepared and executed between us, this bid, together with your written acceptance thereof and your Notification of Award, shall constitute a binding Contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely “Prevention of Corruption Act 1988”.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this.....day of .....200.....

Signature ..... in the capacity of  
..... duly authorised to sign for and on behalf of  
(IN BLOCK LETTERS) .....

## MANUFACTURER'S AUTHORISATION FORM

[See Clause 9 (d) of the General Information to Bidders.]

No. \_\_\_\_\_

Dated \_\_\_\_\_

To:

The Chief General Manager (IT),  
Orissa Power Transmission Corporation Ltd.,  
2<sup>nd</sup> Floor, Bidyut Bhavan,  
Janpath, Saheed Nagar,  
Bhubaneswar - 751 022.  
Orissa  
**INDIA**

IFB No. \_\_\_\_\_

Dear Sir,

We [ *name of the Manufacturer* ] who are established and reputable manufacturers of [ *name and/or description of the goods* ] having factories at [ *address of factory* ] do hereby authorise [ *name and address of Agent* ] to submit a bid, and subsequently negotiate and sign the Contract with you for the goods manufactured by us against the above IFB.

We hereby extend our full guarantee and warranty as per Clause 19 of the General Conditions of Contract for the goods and services offered for supply by the above firm against this Invitation for Bids (IFB).

---

*[Signature for and on behalf of Manufacturer]*

*[Name]*

*[Name of the Manufacturer]*

**Note:** This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its bid.

**Procurement of Uninterrupted Power Supply Systems (UPS)**

**Price Schedule For Goods**

**Bidder's Name & Address :**

**PRICE BID FOR UPS EQUIPMENTS:**

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
Sl. No.	Description	Country of Origin	Qty. (nos.)	Unit Price ex-works/ex-warehouse/ex-showroom/off the self	Excise duty, if any,	Packing and forwarding charges	Unit cost of Inland transportation, insurance and other local costs incidental to delivery to final destination(s) (F and I)	Sales taxes payable, if Contract is awarded	Applicable duties and levies other than sales tax	Unit Price Col. 5+6+7+8+9+10	Total Price (Col. 4 x 11)
<b>1. UPS Equipments</b>											
1	30 KVA On-Line UPS with 60 min. Battery Back Up		6								
2	5 KVA On-Line UPS with 60 min. Battery Back Up		3								
3	600VA Line Interactive UPS		135								
4	12 V, 100 AH, Sealed Maintenance Free Batteries		40								
<b>Sub Total 1</b>											

**PRICE BID FOR POST WARRANTY 3(THREE) YEARS ANNUAL MAINTENANCE CONTRACT :**

Sl. No.	Description	Quantity	AMC Price for 1st Year (In Rs.)		AMC Price for 2nd Year (In Rs.)		AMC Price for 3rd Year (In Rs.)	
			Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
<b>UPS Equipment</b>								
			<b>Total for 1<sup>st</sup> year(1)</b>		<b>Total for 2nd year(2)</b>		<b>Total for 3<sup>rd</sup> year(3)</b>	
			<b>Sub Total 2 {for 3 years(1+2+3)}</b>					
			<b>Grand Total {Sub Total 1+ Sub Total 2}</b>					

Date: \_\_\_\_\_ (Signature) .....

Place: \_\_\_\_\_ (Printed Name) .....

\_\_\_\_\_ (Designation) .....

\_\_\_\_\_ (Common Seal) .....

**Note:**

- (1) In case of discrepancy between unit price and total, the unit price shall prevail.
- (2) Continuation sheets of like size and format may be used as per the Bidder's requirement and shall be annexed to this schedule.
- (3) @ The price shall include all custom duties, sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item, or the custom duties and other taxes paid on previously imported item offered ex-warehouse, ex-showroom, or off-the-shelf. These factors should not be entered separately.

**Procurement of Uninterrupted Power Supply Systems (UPS)  
(Qualifying Requirement Data)**

**Bidder's Name & Address:**

In accordance with **the Clause 10.0 of Section-I “General Information to Bidders” and Clause 14.0 of Section-II “Instructions to Bidders”**, we are furnishing the following details/documents in support of Qualifying requirement for the Contract.

**1.0** Attached copies of original documents defining:

- (a) The constitution or legal status;
- (b) The place of registration and principal place of business;
- (c) Written power of attorney of the signatory of the bid to commit the Bidder.

**2.0** Attached copies of original agreements:

- (a) Signed so as to legally bind all partners, jointly and severally; and
- (b) Submitted with a joint venture agreement providing the joint and several liabilities that of all partners in the event the Contract is awarded to us.

**3.0** Attached copies of original letter of authority to seek reference from our banks.

**4.0 General Information**

All individual firms bidding for the contract are requested to complete the information in this form. Nationality information to be provided for all owners or Bidders who are partnerships or individually owned firms.

Where the Bidder proposes to use named subcontractors for critical components of the works, or for work contents in excess of 10 percent of the bid price, the following information should also be supplied for the specialist subcontractor(s).

1.	Name of firm	
2.	Head office address .....	
3.	Telephone.	Contact
4.	Fax	Telex
5.	Place of incorporation/registration	Year of incorporation/registration

<b>Nationality of owners</b>		
	Name	Nationality
1.		
2.		
3.		



**5.0 Capability Statement**

1.	Name of Bidder				
2.	Classifications (1) Manufacturer (2) Authorized Agent (3) Dealer (4) Others (please specify)				
3.	Factory/Works: (a) Location (b) Description, Type and size of building (c) Is property on lease or free hold? If on lease, indicate date of expiry of lease in such case (d) Details of plant and facilities for manufacture/assembly of the goods				
4.	Type of equipment manufactured and supplied during last three years.				
	Name of equipment	Capacity/Size	Nos. manufactured	Nos. of orders on hand	
5.	Types of equipment supplied during last three years other than those covered under 4 above.				
	Name of equipment	Capacity, size & model	Name of Manufacturers & country of origin	Total nos. supplied in India	Nos. on orders on hand



**6.0 Financial Capabilities**

Name of Bidder:
-----------------

Bidders shall provide financial information to demonstrate that they meet the requirements stated in the Instructions to Bidders. Each Bidder must fill in this form. If necessary, use separate sheets to provide complete banker information. A copy of the audited balance sheets should be attached.

Name of Banker	
Address of Banker	
Telephone No. Fax No. Contact Name & Title	

Summarise actual assets and liabilities in Indian Rupees for the previous three years. Based upon known commitments, summarise projected assets and liabilities in Indian Rupees for the next three years.

Financial information in Indian Rupees	Actual : Previous three years			Projected : next three years		
	1	2	3	4	5	6
1. Total assets						
2. Current assets						
3. Total liabilities						
4. Current liabilities						
5. Profits before taxes						
6. Profits after taxes						

Specify proposed sources of financing to meet the cash flow demands of the Project, net of current commitments

Source of financing	Amount (Indian Rupees)
1.	
2.	
3.	

Attach audited financial statements for the last three years.

**7.0 Litigation History**

Name of Bidder
----------------

Bidders 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 Applicant	Name of client, cause of litigation and matter in dispute	Disputed amount (Current Value in Indian Rupees or US \$ equivalent)

**8.0 Performance Statement (for a period of last three years for all the type of items offered)**

Sl. No.	Order placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipment	Value of order	Date of completion of delivery As per contract	Date of completion of delivery as per Actual	Remarks indicating reasons for late delivery, if any.	Balance qty., if any, to be supplied	Expected date of Commencement completion of balance supplies	Has the equipment been satisfactorily functioning? Attach certificate from the Purchaser/ Consignee

Date :

(Signature) .....

Place :

(Printed Name) .....

(Designation) .....

(Common Seal) .....

**9.0 Details of Service Support**

		<b>SERVICE CENTRE AT BHUBANESWAR</b>							
		Location							
Pack. No.	Destination	Phone no.	Fax No.	Status of Office Working Days and Hours	Number of Software Engineers	Number of Hardware Engineers	Number of Hardware Staff	Value of Min. Stock Available at all times	List of Data Centers serviced in last two (2) years

Date :

(Signature) .....

Place :

(Printed Name) .....

(Designation) .....

(Common Seal) .....

**Procurement of Uninterrupted Power Supply Systems (UPS)**

**(DEVIATIONS AND ALTERNATIVES)**

The Bidder shall itemise any alternatives and deviations from the bid document included in his Bid. Each item shall be listed below with the following information:

Any proposal in this section will be applicable only for the bidders whose Bid will be substantially responsive in accordance with **Clause 5 of Section-II “Instructions to Bidders”**.

A Bid determined as not substantially responsive will be rejected and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

1. Reference Clause in the bid document.
2. Detailed description of the alternative or deviation.
3. Reason for the change.
4. The change in bid price if the alternative or deviation is withdrawn and the bidder conforms to the specifications.

Date: (Signature) .....

Place: (Printed Name) .....

(Designation) .....

(Common Seal) .....

**Procurement of Uninterrupted Power Supply Systems (UPS)**

**(FORM OF CERTIFICATE OF ORIGIN AND ELIGIBILITY)**

**Bidder's Name & Address**

I (We) hereby certify that the equipment and materials to be supplied are produced in .....,  
an Eligible Source Country.

I (We) hereby certify that my (our) company is incorporated and registered in .....,  
an Eligible Source Country.

Date: (Signature) .....

Place: (Printed Name) .....

(Designation) .....

(Common Seal) .....



## Technical Compliance

### 1. 30KVA Online UPS with 1 Hr Backup

Features	Technical Specification	Bidders Response (Yes/NO)	Remarks
Technology	<b>True On line Double conversion, using IGBT based Rectifier and IGBT based inverter.</b>		
	Input & output EMI Filter to be provided		
	<b>Galvanic Isolation Transformer should be provided for both Bypass supply and Input supply</b>		
<b>Input</b>			
Rated voltage	400 VAC three-phase + N		
Voltage Range	± 20%		
Frequency Range	45 - 65 Hz		
Power Factor	> 0.9		
Harmonic Distortion	<5%		
<b>By-Pass</b>			
Static Bypass switch	A Build in static transfer switch shall be provided as integral part of the UPS		
Rated Voltage	400 VAC		
Number of Phases	3 + N		
Permitted voltage range	± 15% (selectable from ± 10% to ± 25% from front panel)		
Rated Frequency	50Hz		
Permitted Frequency Range	± 2% (selectable from ± 1% to ± 5% from front panel)		
Transfer Time	0 ms		
<b>Batteries</b>			
Type	Sealed Maintenance Free VRLA		
Backup Time	60 mins.		
Battery Make	Exide Power Safe		
DC Bus Voltage	384 V or more		
Total VAH	38000 VAH or more on each UPS		
Recharge Time	4-8 Hrs.		
Temperature Control & Battery Charging	The system should compensate for any variations in temperature while recharging the batteries. The recharge voltage should be temperature depended		
Automatic Battery Test	The UPS should carry out battery tests automatically.		
<b>Output</b>			
Active Power	Should be 24 KW (30 KVA)		
Number of Phases	3 + N		
Rated Voltage	380 – 400 – 415 (selectable)		
Crest Factor (Ipeak/Irms)	3 : 1		
Waveform	Sinewave		
Static stability	± 1%		
Dynamic Stability	± 5% in 5 ms		
Frequency	50 Hz		
Overload	110% for 5 Hrs., 125% for 10 mins., 150% for 1 min.		
<b>Protection</b>			
Back Feed Protection	The back feed protection should be installed in series with bypass SCRs.		
Normal Protection	Input, output, rectifier input, battery fuse, bypass fuse, short circuit etc.		

	Thermal on system, rectifier, bypass and inverter. Protection against profound battery discharge		
<b>Environment</b>			
Dimension (HWD)	UPS indicative dimensions shall not be more than - 1500 mm x 700 mm x 900 mm		
Operating Temp.	0 – 40° C		
Relative Humidity	<95% non condensing		
Noise	≤60dBA at 1 m		
Protection Rating	IP 20		
<b>Display and Software</b>			
List of the information output on the LCD Display	Input Voltage		
	Input Frequency		
	Input Power		
	By-pass Voltage		
	By-pass Frequency		
	Output Voltage		
	Output Frequency		
	Output Power		
	Output Peak Power		
	Battery Voltage		
	Battery Peak Pulse Current		
	Battery discharge current		
	Inverter Input Voltage		
	Internal temperature (system / converter / Bypass/ Inverter/ magnetic Components)		
	Inverter Operation Time		
	By-pass operation time		
	Battery Operation Time		
No. of battery interventions			
No. of complete discharges			
Date of first activation			
Commands	Battery Test		
	Display Contrast		
	By-pass Off		
	End discharge pre-alarm		
	System Off		
Customisation	Output Voltage		
	Output Voltage Compensation		
	Batteries		
	Line – interactive operating mode		
	End discharge pre-alarm		
	Auto off		
	By-pass voltage tolerance		
	By-pass frequency tolerance		
Modem			
<b>Efficiency</b>			
Inverter Efficiency	95% or better		
AC/AC Efficiency	91% or better		
<b>Other Important Points</b>			
Reliability of the System	The total system (Charger & Inverter section) should be controlled by redundant microprocessor system. If a fault should occur to either of the microprocessors, the power supply to the protected load should not be interrupted		
Self Diagnostics	Event log with minimum 125 messages, measurements & alarms should be available from the front LCD		
Auto Restart Facility	The UPS should be configured to automatically restart after a mains supply failure or after the batteries have become fully discharged		
Standards	The system should comply the following safety & International standards:		

	EN 62040-1, EN 62040-2 & EN 62040-3 ISO-14001, EN 50091-2, EN, IEC 61000-3-2, IEC 61000-3-3.		
Certification	ISO 9001, ISO 14001		
Remote Management	SNMP card required for remote management.		
Warranty	3 year comprehensive on-site warranty, including labour, and parts & batteries.		

## 2. 5KVA Online UPS with 1 Hr Backup

Features	Technical Specification	Bidders Response (Yes/NO)	Remarks
Technology	<b>True On line Double conversion, IGBT based Rectifier and IGBT based Inverter.</b>		
	<b>Galvanic Isolation Transformer should be provided for both Bypass supply and Input supply</b>		
<b>Input</b>			
Input Source	Mains/Local DG set Compatibility		
Rated voltage	Single Phase 230 V		
Voltage Range	165 V – 265 V		
Frequency Range	47.5 Hz to 52.5 Hz		
Power Factor	> 0.9		
<b>By-Pass</b>			
Bypass switch	A Bypass transfer switch shall be provided as integral part of the UPS		
Rated Voltage	230VAC, 1 Phase		
Rated Frequency	50Hz		
<b>Batteries</b>			
Type	Sealed Maintenance Free VRLA		
Backup Time	60 mins.		
Battery Make	Exide Power Safe		
Battery Blocks	12V SMF		
Total VAH	7500 VAH or more on each UPS		
<b>Output</b>			
Active Power	Should be 3.5 KW (5 KVA)		
Number of Phases	1		
Rated Voltage	230 V		
Waveform	Sinusoidal		
Out voltage Regulation	+/-1%, for 100% Static Load, /-5% dynamic 100% load change,		
Crest Factor (Ipeak/Irms)	3 : 1		
Static stability	± 1Hz		
Frequency	50Hz		
Overload	110% for 5 Hrs., 125% for 10 mins., 150% for 1 min.		
Transfer time in normal mode	0		
Overall efficiency	>90%-100% Load		
<b>Protection</b>			
Emergency Power Off	Emergency Power Off (EPO) to be provided		
Operating temperature	0 to 40 0 C		
Relative humidity	95% non-condensing		
LED Display	The UPS should have LED panel for Inverter fault, Charger fault, Low battery, On battery, On mains, Bypass status		
Communication	RS 232 interface		
Agency Approvals	ISO-14001, ISO-9001, EN 50091-2, EN/IEC 62040-3, IEC 61000-3-2, IEC 61000-3-3.		
Battery Recharging time	Should be 10 Hrs and if required need to provide		

	the proper external charger.		
Remote Management	SNMP card required for remote management.		
Warranty	<b>3 year comprehensive on-site warranty, including labour, and parts &amp; batteries.</b>		

### 3. 600 VA Online UPS with 20 minutes Backup

Features	Technical Specification	Bidders Response (Yes/NO)	Remarks
Technology	600 VA UPS should have built in automatic voltage regulator .		
<b>Input</b>			
Voltage Range	160-280 Volts		
Frequency Range	47 - 53 Hz		
<b>Batteries</b>			
Type	Sealed Maintenance free, leak proof, replaceable, reputed make. Specify make.		
Backup Time	Minimum 20 minutes on for a standard PC (15" CRT Monitor)		
<b>Output</b>			
Voltage	220-240 Volts $\pm$ 8%		
Waveform	Sinewave		
Transfer Time	Less than 10 millisecond		
Sockets	3 pin 6Amp Indian type sockets- 3 + 1 for Surge protection		
Frequency	50 Hz		
Wattage	Min.350 W		
<b>Protection</b>			
No-load shutdown	to be present in battery back up		
Overload Protection	to be present		
Surge Protection	Must be available		
<b>Environment</b>			
Dimension (HWD)	UPS dimension should not be more than - 350 mm x 100 mm x 150 mm with		
Net Weight	7 Kg Maximum		
Noise	Less than 40 dBA from a distance of 1 meter		
<b>Display</b>			
LED Indicators	ON Mains, ON Battery, Low Battery, Fault / Overload		
Audible Alarm	Mains Fail (slow beeping), Low Battery (rapid beeping), Fault / Overload		
Manuals	To provide User manual		
Warranty	3 year comprehensive on-site warranty, including labour, and parts & batteries.		
Agency Approvals	ISO-14001,ISO-9001		

### 4. 12V, 100AH, SMF VRLA Batteries

Features	Technical Specification	Bidders Response (Yes/NO)	Remarks
<b>Voltage</b>	12 Volts		
Capacity	100 AH		
Type	Sealed Maintenance Free VRLA Batteries		
Preferred Makes	Exide/Amar Raja/Panasonic		

**General Compliance Schedule**

Sl.No.	Item	Vendor's confirmation	Deviation ( if any)
01	General Terms & Conditions	Agreed/Not agreed	
02	EMD/ NSIC/ DGS&D Certificate	Deposited/Not deposited	
03	Latest Income Tax PAN and Sales Tax registration & clearance certificates.	Deposited/Not deposited	
04	Security Deposit	Agreed/Not agreed	
05	Payment Terms	Agreed/Not agreed	
06	Penalty Clause	Agreed/Not agreed	
07	Price Validity	Agreed/Not agreed	
08	Delivery & Installation Schedule	Agreed/Not agreed	
09	Warranty (3 years) & Post Installation clause	Agreed/Not agreed	
10	Minimum of 3 year onsite management	Agreed/Not agreed	
11	Bidder's Maintenance Infrastructure at Bhubaneswar (for Installation and attendance of support calls)	Exist/Does not Exist	
12	Training and Documentation	Agreed/Not agreed	
13	AMC support for min. 3 years after the expiry of Warranty Period of 3 years.	Agreed/Not agreed	
14	Credentials with documentary support as per Eligibility Clause. (ISO 9001, ISO 14001, Turnover, Profitability, Order copies as required)	Submitted/ Not submitted.	
15	At least 3 installation sites in India with supporting documents	Submitted/ Not submitted.	
16	Authorized manufacturership / System Integratorship certificate	Submitted/ Not submitted	
17	Original specification sheets for all items	Submitted/Not submitted	
18	Driver software, wherever applicable, to be supplied	Agreed/Not agreed.	
19	Equipment working environment: All the equipment shall work in non-ac-room environment.	Agreed/Not agreed.	
20	A vendor must quote all the items	Agreed/Not agreed.	
21	Technical viability of the project for all the equipments offered by the vendor.	Submitted/ Not submitted.	

\_\_\_\_\_  
Signature with Date

\_\_\_\_\_  
Name in Block Letters

\_\_\_\_\_  
Seal of the Company

- Confirmation in one of the provisions between the vendor's alternatives provided shall be ticked.

**Note:** In case the vendor's confirmation is negative, specific comments are to be filled in the Deviation column. If the space is insufficient, a separate sheet may be enclosed.

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

This Guarantee Bond is executed this .....day of ..... 200\_ by us the .....(Bank) at ..... P.O. .... P.S..... Dist..... State .....

WHEREAS THE ORISSA POWER TRANSMISSION CORPORATION LTD., a corporate body constituted under the Company Act, 1956 (herein after called “the OPTCL”) has placed orders No.....Dt.....(hereinafter called “The Contract) on M/s..... (hereinafter called “The Contractor”) for supply, install, testing and commissioning of the ..... AND

WHEREAS the Contractor has agreed to supply, install, testing and commissioning of ..... at the OPTCL in terms of the said contract, AND

WHEREAS the OPTCL has agreed (1) to exempt the contractor from making payment of security, (2) to release 100% payment of the cost of materials as per the said agreement and (3) to exempt from performance guarantee on furnishing by the Contractor to the OPTCL a Composite Bank Guarantee of 10% (ten percent) of the contract value in force of the said contract.

NOW THEREFORE in consideration of the OPTCL having agreed (1) to exempt the contractor from making payment of security (2) releasing 100% payment to the contractor and (3) to exempt from furnishing performance guarantee in terms of the said contract as aforesaid, we, the .....(Bank) (hereinafter referred to as ‘the Bank’) do hereby undertake to pay to the OPTCL an amount not exceeding Rs.....(Rupees .....) against any loss or damage caused to or suffered by or would be caused to or suffered by the OPTCL by reason of any breach by the said contractor of any of the terms and conditions contained in the said contract.

(2) We (the Bank.....) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the OPTCL stating that the amount claimed is due by way of loss or damage caused to or suffered by the OPTCL by reason of any breach by the said Contractor of any of the terms or conditions contained in the said contract or by reason of the Contractor’s failure to perform the said contract. 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.....).

(3) We (the Bank.....) also undertake to pay to the 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 unequivocal.

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

(Contd.....P/2.)

(4) We (the Bank.....) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said contract and that it shall continue to be so enforceable till all the dues of the OPTCL under or by virtue of the said contract have been fully paid and its claims satisfied or discharged or till Managing Director, Orissa Power Transmission Corporation Limited or his nominee certifies that the terms and conditions of the said contract 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 in writing on or before the \_\_\_\_\_ we shall be discharged from all liability under this guarantee thereafter.

(5) We (the Bank.....) further agree that the OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) and we shall not be relieved from our liability by reason of any such variations or extension being granted to the said Contractor or for any forbearance, act or omission on the part of the OPTCL or any indulgence by the 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 provisions have effect of so relieving us.

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

(7) We (the Bank.....) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the OPTCL in writing.

(8) We (the Bank.....) further agree that this guarantee shall also be invokable at our place of business at Bhubaneswar in the state of Orissa.

Dated at ..... the ..... day of ..... Two thousand .....

For .....  
(indicate the name of the Bank)

Witness:

- 1.
- 2.

**NOTE FOR TENDERERS** : The B.G. is to be furnished in Non-judicial Stamp paper of Rs.100/- as applicable as per Orissa Stamp Duty Act. from any Nationalized Bank.

**PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY**

Ref:    Date:    Bank Guarantee No.

1. In accordance with invitation to Bid No..... dated ..... of Orissa Power Transmission Corporation Ltd. (hereinafter referred to as the OPTCL) for the purchase of ..... Messer.....

Mr.....  
Address.....  
.....  
..... Director(s)

(herein after referred to as ‘Tenderer’ wish/wished to participate in the said tender on furnishing an unequivocal and unconditional Bank Guarantee by the Tendered for the sum of Rs..... valid for a period of .....days (.....days) towards his Earnest Money we the ..... (hereinafter referred to as ‘the Bank’) at the  
(indicate the name of the Bank)

request of ‘The Tenderer’ Ms. / Sri.....(hereinafter referred to as Contractor(s) do hereby unequivocally and unconditionally guarantee and undertake to pay during the above period, and/on further written request by the .....(indicate designation of Tenderer) to OPTCL, an amount not exceeding Rs....., without any demur or reservation. The guarantee would remain valid up to 4.00 P.M. of ..... (date) and if any further extension to this is required, the same will be extended on receiving instructions from the the Tenderer..... on whose behalf this guarantee has been issued.

2. We, the ..... (indicate the name of the Bank) do hereby, further undertake to pay the amount due and payable under this guarantee without any demur, merely on demand from the OPTCL stating that the amount claimed is due as per the terms of the said Bid. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....

3. We undertake to pay to the OPTCL any money so demand notwithstanding any dispute or disputes so raised by the Contractor (s) in any suit or proceeding instituted/pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by as under this bond shall be a valid discharge of our liability for payment there under and the contractor (s) shall have no claim against us under this bond for making such payment.



4. We the ..... (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the aforesaid period of ..... Days (..... days) and its shall continue to be so enforceable till all the dues of the OPTCL under or by virtue of the said Bid have been fully paid and its claims satisfied or discharged or till Chairman, OPTCL certifies that the terms and conditions of the said Bid have been fully and properly carried out by the said Tenderer and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the ..... we shall be discharged from all liability under this guarantee thereafter.
  
5. We the ..... (indicate the name of Bank) further agree with the OPTCL that the OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms & conditions of the said Bid or to extend time of 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 the OPTCL against the said Tenderer 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 the OPTCL or any indulgence by the OPTCL to the said Contractor (s) or by any such matter or thing what so ever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
  
6. This guarantee will not be discharged due to the change in the name, style and constitution of the Bank or the Tenderer.
  
7. We ..... (indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the OPTCL in writing.
  
8. We (the Bank.....) further agree that this guarantee shall also be invokable at our place of business at Bhubaneswar in the state of Orissa.

Dated the ..... Date of .....

Witness:-

- 1.
- 2.

For .....  
(indicate the name of Bank)

**NOTE FOR TENDERERS** : The B.G. is to be furnished in Non-judicial Stamp paper of Rs.50/- as applicable as per Orissa Stamp Duty Act. from any Nationalized Bank.