



ODISHA POWER TRANSMISSION CORPORATION LTD  
OFFICE OF THE SENIOR GENERAL MANAGER,  
CENTRAL PROCUREMENT CELL,  
JANPATH, BHUBANESWAR - 751022  
TENDER SPECIFICATION  
NO. Sr.G.M.-CPC-e-Tender-Telecom-SLDC-ADMS-16 /2019-20

**FOR**  
**FOR DESIGN/ DEVELOP, SUPPLY, INSTALLATION, TESTING,**  
**COMMISSIONING & MAINTENANCE OF AUTOMATIC DEMAND**  
**MANAGEMENT SCHEME FOR ODISHA POWER SYSTEM.**  
**(E tendering mode only)**

**PART-I**

- SECTION-I- INSTRUCTION TO TENDERERS  
SECTION-II- GENERAL TERMS AND CONDITIONS OF CONTRACT  
SECTION-III- LIST OF ANNEXURE  
SECTION-IV- TECHNICAL SPECIFICATION.  
SECTION-V- COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT

**PART-II**

**PRICE BID**

1	Request for online tender documents	From Date 08.02.2020 (10.00 Hrs) To Date 11.03.2020 (12.30 Hrs)
2	Last date of submission of online tender	Dated 12.03.2020 (12.30 Hrs)
3	Date of Pre-bid conference	Dated 19.02.2020(11.00 Hrs)
4	Date of opening of Tender	Dated 13.03.2020 (15.00 Hrs)



**ODISHA POWER TRANSMISSION CORPORATION LTD.**

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

**ODISHA**

e-TENDER NOTICE NO. 16/ 2019-20

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD, Sr.G.M. [C.P.C.] invites Tenders from reputed **manufacturers and System Integrators** in India in two part bidding system for Supply and Erection & Commissioning and AMC of **ADMS (AUTOMATIC DEMAND MANAGEMENT SCHEME)** for Odisha power system.

The interested bidders would be required to enroll themselves on the tender portal [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL). Complete set of bidding documents are available at [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) from Dt. **08.02.2020 at 10.00 A.M to 11.03.2020 at 12.30 P.M.** Interested bidders may visit OPTCL's official web site <http://www.optcl.co.in> and [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) for detail specification.

N.B:-All subsequent addendums / corrigendum to the tender shall be hosted in the [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) only.

SENIOR GENERAL MANAGER [C.P.C.]



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

*e-TENDER NOTICE NO- 16/2019-20*

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

Sl. No	Tender Specification No.	Description of work	Unit/Quantity	EMD (In Rs.)	Cost of Tender document (in Rs.)	Tender Processing Fee (Rs)	Last date of receipt & opening of tender
1.	<b>Sr.G.M.-CPC-e-Tender-Telecom-SLDC-ADMS-16/2019-20</b>	DESIGN/ DEVELOP, SUPPLY, INSTALL, TESTING, COMMISSIONING & MAINTENANCE OF ADMS FOR ODISHA POWER SYSTEM	1 Job	3,46,000/-	12,000/- + GST @ 12% = 13,440/-	5000/- + GST @ 18% = 5900/-	Dated 12.03.2020 (12.30 Hrs) & Dated 13.03.2020 (15.00 Hrs)

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

**TENDER COST:**

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

**TENDER PROCESSING FEE:**

The bidders shall have to submit non-refundable amount of Rs.5,900/- (Rupees Five thousand nine hundred) only including GST @ 18%) towards the tender processing fee to K.S.E.D.C.Ltd, in e-payment mode. The e-payment of above amount is to be made to enable the bidder to download the bid proposal sheets & bid document in electronic mode.

**SUBMISSION OF TENDER COST, TENDER PROCESSING FEE & EMD:**

The bidder shall deposit the tender cost, tender processing fee & EMD BG prior to last date & time for **opening** of techno-commercial bid (Part-I) as notified in tender notice.

**The demand draft/pay order for tender cost, processing fees are to be submitted along with the EMD**

**at the office of the undersigned on or before the last date & time of opening of technical bid (Part-I).**

The bidders shall scan the Demand Draft/Pay order/ Bank guarantee, towards EMD and upload the same in the prescribed form in .gif or .jpg format in addition to sending the original as stated above.

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

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

Minimum qualification criteria of bidders: AS STIPULATED IN SECTION-II, PART-I (G.T.C.C) OF THE TENDER SPECIFICATION. Any clarifications regarding the scope of work and technical features of the project can be had from the undersigned during office hours.

**N.B:-All subsequent addendums / corrigendum to the tender shall be hosted in [www.tenderwizard.com/ OPTCL](http://www.tenderwizard.com/OPTCL) only. Interested Bidders are requested to visit e-tender portal for update information of tender (Corrigendum/addendum etc.).**

Senior General Manager, CPC

OPTCL, Bhubaneswar

FAX NO.:0674 - 2542964

TELEPHONE NO.:0674 - 2541801

**ODISHA POWER TRANSMISSION CORPORATION LTD.**  
**OFFICE OF THE CHIEF GENERAL MANAGER**  
*CENTRAL PROCUREMENT CELL*

**JANAPATH, BHUBANESWAR - 751022**

**TENDER SPECIFICATION**  
**NO. Sr.G.M.-CPC-e-Tender-Telecom-SLDC-ADMS-16 /2019-20**

**CONTAINING**

**PART - I**

- SECTION - I : INSTRUCTION TO TENDERERS**
- SECTION - II : GENERAL TERMS AND CONDITIONS OF  
CONTRACT ( G.T.C.C.) (COMMERCIAL)**
- SECTION - III : LIST OF ANNEXURES (COMMERCIAL)**
- SECTION - IV : TECHNICAL SPECIFICATION  
Technical Specification of ADMS**
- SECTION - V : SPECIFICATION FOR AMC OF ADMS**

**PART - II PRICE BID.**

***PART – I.***  
**SECTION – I.**  
**INSTRUCTIONS TO TENDERERS**

<b><u>Title.</u></b>	<b><u>Page.</u></b>
1. Submission of Bids.	02
2. Division of Specification.	02
3. Tenders shall be in two parts.	
4. Opening of Bids .	03
5. Purchaser’s right regarding alteration in Quantities, Tendered.	04
6. Procedure and opening time of tenders.	04
7. Bidder’s liberty to deviate from specification.	
8. Eligibility for submission of bids.	04
9. Purchaser’s right to accept/reject bids.	10
10. Mode of submission of tenders.	10
11. Earnest money deposit.	10
12. Validity of the bids.	11
13. Price.	11
14. Revision of Tender Price by Bidders.	11
15. Tenderers to be fully conversant with the clauses of the Specification.	11
16. Documents to accompany Bids.	11
17. Documents/Papers to Accompany PART – II Bid.	12
18. Conditional Offer.	12
19. General.	12
20. Expenses in respect of OPTCL’s representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site.	14
21. Litigation/ Arbitration	15
22. Per-bid conference	16

**COMMERCIAL SPECIFICATION.**

**P A R T - I**

**S E C T I O N - I**

**INSTRUCTIONS TO TENDERER**

**1. Submission of Bids:-**

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

The OPTCL reserves the right to reject any bid, which is not deposited according to the instruction, stipulated above. The participants to the tender should be registered under GST Laws.

- i. For all the users it is mandatory to procure the Digital Signatures of Class-III.
- ii. Contractors / Vendors / Bidders / Suppliers are requested to follow the below steps for **Registration**:
  - a. Click “Register”, fill the online registration form.
  - b. Pay the amount of **Rs. 2360/-** through e-payment/DD in favour of K S E D C Ltd Payable at Bangalore.
  - c. Send the acknowledgment copy for verification.
  - d. As soon as the verification is being done the e-tender user id will be enabled.
- iii. After viewing Tender Notification, if bidder intends to participate in tender, he has to use his e-tendering User Id and Password which has been received after registration and acquisition of DSCs.
- iv. If any Bidder wants to participate in the tender he will have to follow the instructions given below:
  - a. Insert the PKI (which consist of your Digital Signature Certificate) in your System.  
(Note: Make sure that necessary software of PKI be installed in your system).
  - b. Click / Double Click to open the Microsoft Internet Explorer (This icon will be located on the Desktop of the computer).
  - c. Go to Start > Programs > Internet Explorer.
  - d. Type [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) in the address bar, to access the Login Screen.
  - e. Enter e-tender User Id and Password, click on “Go”.
  - f. Click on “Click here to login” for selecting the Digital Signature Certificate.

- g. Select the Certificate and enter DSC Password.
- h. Re-enter the e-Procurement User Id Password
- v. To make a request for Tender Document Bidders will have to follow below mentioned steps.
  - Click “Un Applied” to view / apply for new tenders.
  - Click on Request icon for online request.
- vi. After making the request Bidders will receive the Tender Documents which can be checked and downloaded by following the below steps:
  - Click to view the tender documents which are received by the user.
  - Tender document screen appears.
  - Click “Click here to download” to download the documents.
- vii. After completing all the formalities Bidders will have to submit the tender and they must take care of following instructions.
  - Prior to submission, verify whether all the required documents have been attached and uploaded to the particular tender or not.
  - Note down / take a print of bid control number once it displayed on the screen
- viii. Tender Opening event can be viewed online.
- ix. Competitors bid sheets are available in the website for all.
- x. **For any e-tendering assistant contact help desk number mentioned below.**
  - Bangalore – 080- 40482000.

The participants to the tender should be registered under GST Laws.

## **2. Division of Specification.**

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

### **Part-I Consists of**

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

### ***Part-II Consists of***

Schedule of prices as per Annexure-V

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

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

The Tenderers are required to submit the tenders in two parts Part-I, technical and commercial and Part-II "Price Bid".

#### **4. Opening of Bids.**

- [a] The part-I shall be opened on the date and time fixed by the OPTCL for opening of bids in Electronic mode in presence of such of the Tenderers or their authorized representatives [limited to one person only] on the due date of opening of tender who opt remain present. After scrutiny of the technical particulars and other commercial terms, clarifications, if required, shall be sought for from the bidders. The Tenderers shall be allowed 15 days time for such activity.
- [b] On receipt of technical clarification, the bids shall be reviewed, evaluated and those not in conformity with the technical Specification / qualifying experience, shall be rejected. If any of the technical proposal requires modification to make them comparable, discussion will be held with the participating bidders.  
All the responsive bidders shall be given opportunity to submit the revised technical and revised price proposals as a follow up to the clarification (modification if any) on the technical proposals. The qualified bidders shall be given opportunity to submit revised price proposals within 15 days from the date of such discussion or within time frame mutually agreed, whichever is earlier.
- [c] When the revised price proposals are received, the original price proposals will be returned to the bidders unopened along with their original technical proposals. Only the revised technical and price proposals will be considered for bid evaluation. The price bids [Part-II] of such of the Tenderers, whose tenders have been found to be technically and commercially acceptable, including those supplementary revised price bids, submitted subsequently, shall be opened in the presence of the bidder's representative on a date and time which will be intimated to all technically and commercially acceptable Tenderers.
- [d] The bidders are required to furnish sufficient information to the Purchaser to establish their qualification, capacity to manufacture and/or supply the materials/perform the work. Such information shall include details of bidder's experience, its financial, managerial and technical capabilities.
- [e] The bidders are also required to furnish details of availability of appropriate technical staff and capability to perform after sales services. The above information shall be considered during scrutiny and evaluation of bids and any bid which does not satisfactorily meet these requirements, shall not be considered for price bid evaluation.
- [f] The price bids of the technically and otherwise acceptable bids shall only be evaluated as per the norms applicable in terms of this Specification.

5. Purchaser's Right Regarding Alteration of Quantities Tendered.

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

6. Procedure and opening time of tenders.

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

7. Bidder's Liberty to deviate from Specification.

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

8. Eligibility for submission of bids.

Only those bidders who have deposited the cost of tender specification are eligible to participate in the tender. They should submit the money receipt as a proof of such payment.

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

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

10. Mode of submission of Tenders.

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

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

11. Earnest money deposit:

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

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

(a) **Cash:-** Payable to drawing & disbursing Officer, OPTCL (Hd.qrs. Office), Bhubaneswar -

751022

- (b) **Bank Draft:** -To be drawn in favour of Drawing & Disbursing Officer, OPTCL [H.Qrs.Office], Bhubaneswar-751 022.
- (c) Bank Guarantee from any Nationalized/Scheduled Bank strictly as per enclosed proforma vide **Annexure-VI** to be executed on non-judicial stamp paper worth Rs.29.00 or as applicable, as per prevailing laws in force and also to be accompanied by the confirmation letter of the issuing Bank Branch.

**NOTE:**

- (i). The validity of the EMD in the form of Bank Guarantee shall be at least for 240 days from the date of opening of tender failing which the tender will be liable for rejection.
- (ii) No interest shall be paid on the Earnest Money Deposit.
- (iii) E.M.D. in shape of cash may be submitted up to Rs. 25,000/- (Rupees Twenty-five Thousand) only. Above Rs. 25,000/- (Rupees Twenty-five thousand) the Earnest Money Deposit shall be furnished in any one of the forms indicated above (i.e. Through Bank Draft, Bank Guarantee/ National Savings Certificate).
- (iv) No adjustment towards EMD shall be permitted against any outstanding amount with the **ODISHA POWER TRANSMISSION CORPORATION LTD.**
- (v) The chart showing particulars of EMD to be furnished by Tenderers of different categories is placed at **Annexure-VIII.**
- (vi) In the case of un- successful tenderer, the EMD will be refunded after the tender is decided. In the case of successful Tenderer, this will be refunded only after furnishing of security money referred to at clause-19of Section-II.
- (vii) Suits, if any, arising out of this clause shall be filed in a Court of law to which the jurisdiction of High Court of ODISHA extends.
- (viii) EMD will be forfeited if the tenderer fails to accept the letter of intent and/or purchase order issued in his favour or to execute the order, placed on them.
- (viii) Tenders not accompanied by Earnest Money shall be disqualified.

**12. Validity of the Bids: -**

The tenders should be kept valid for a period of **180** days from the date of opening of the tender, failing which the tenders will be rejected.

**13. PRICE: -**

i)Tenderers are requested to quote-'FIRM' Price. No deviation from **FIRM PRICE** will be entertained irrespective of deviation clause No.7 of this part of the specification.

**14. Revision of tender price by Bidders: -**

[a] After opening of tenders and within the validity of period, no reduction or enhancement in price will be entertained. If there is any change in price, the tender shall stand rejected and the EMD deposited shall be forfeited.

[b] After opening of price bid if the validity period is not sufficient to place purchase order, the tenderer may be asked by the purchaser to extend the validity period of the bid under the same terms and condition as per the original tender.

However, the tender are free to change any or all conditions including price except delivery period of their bids at their own risk, if they are asked by the purchaser to extend the validity period of the bid prior to opening of price bid.

**15. Tenderers to be fully conversant with the clauses of the Specification: -**

Tenderers are expected to be fully conversant with the meaning of all the clauses of the specification before submitting their tenders. In case of doubt regarding the meaning of any clause, the tenderer may seek clarification in writing from the Chief General Manager (Central Procurement Cell) OPTCL. This, however, does not entitle the Tenderer to ask for time beyond due date, fixed for receipt of tender.

**16. Documents to Accompany Bids.**

Tenderers are required to submit tenders in the following manner:

**Part-I of the Tender shall Contain the following documents.**

- [i] Declaration Form. [As per Annexure-I]
- [ii] Earnest Money. [As per Annexure-VIII], Tender Cost.
- [iii] Technical specification and Guaranteed Technical Particulars conforming to the Purchaser's Specification along with drawings, literatures and all other required Annexures, duly filled in.
- [iv] [Photostat copies of type test certificates of materials/equipment offered as stipulated in the Technical Specification.](#)
- [v] Abstract of Terms & conditions in prescribed proforma as per **Annexure-II.**
- [vi] General Terms & Conditions of supply offer as per Section-II of the Specification.
- [vii] List of orders executed for similar materials/equipment during [preceding 3\(three\) years](#) indicating the customer's name, Purchase Order No. & Date, date of supply and date of commissioning etc.
- [viii] Data on past experience **as per Clause-7 of Section-II** of the Specification.
- [ix] GST Compliance Rating. The GST Identification Number(GSTIN) under GST Laws and permanent account number [PAN] of the firm under Income tax Act are required.
- [x] Audited Balance sheet & profit loss accounts of the bidder, for past (3) three years.
- [xi] Schedule of quantity and delivery in the prescribed Proforma vide Annexure, as appended.
- [xii] List of Orders in hand to be executed.
- [xiii] Deviation schedule.
- [xiv] The bidder should not have any pending litigation or arbitration with OPTCL with regard to any project or related activity. The bidder should certify/declare the same in unequivocal terms by way of an affidavit duly sworn before a magistrate/notary.

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

- (a) Part – II of the tender shall consist of the following
  - (i) Schedule of prices in the prescribed proforma

**18. Conditional Offer:**

Conditional offer shall not be accepted.

**19. General: -**

- (i) In the event of discrepancy or arithmetical error in the schedule of price, the decision of the purchaser shall be final and binding on the Tenderer.
- (ii) For evaluation, the price mentioned in words shall be taken if there is any difference in figures and words in the price bid.
- (iii) Notice inviting tender shall form part of this specification.

- (iv) The price bids of the technically and otherwise acceptable bids shall only be evaluated. The EMD of others, if any, shall be returned to the bidders.
- (v) Tenderer can offer any lot or all the lots of the tender, if there are more than one lots. But the tender (bid) must be furnished separately for each lot. For each lot, the tenderer has to submit PART-I & PART-II of the bids separately.
- (vi) It should be distinctly understood that the part-II of the bid shall contain only details/documents relating to price, as outlined in clause-17 mentioned herein above. Inclusion of any of the documents/information etc. shall render the bid liable for rejection.

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

The testing and inspection of the equipment/ materials at manufacturer works are in the scope of work of the Contractor/Supplier.

OPTCL inspecting officer, on receipt of offer for inspection from the contractor/supplier, proceeds to the manufacturer works to witness the Type/Acceptance/Routine test.

Important:

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

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

**a) Hotel Accommodation:**

- I. Single room accommodation in 4 star hotel for the OPTCL inspecting officer of the rank of Assistant General Manager (Grade E-6) and above.
- II. Single room accommodation in 3 star hotel for the OPTCL inspecting officer of the rank below Assistant General Manager (Grade E-6).

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

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

- (i) To and fro travel expenditure from the Head Quarters of the inspecting officer to the place of inspection/testing shall be borne by the contractor/supplier/manufacturer. Journey from the Head Quarters of the inspecting officer to the nearest Air Port by train (Ist/IIInd A.C) & A/C Taxi then by Air to the place of inspection/testing or to the nearest place of inspection/testing and then by train (Ist/IIInd A.C) & A/C taxi to the place of inspection/testing shall be arranged by the contractor/supplier/manufacturer.
- (ii) For train journey, inspecting officer of the rank Assistant General Manager and above shall be provided with 1st class AC ticket and inspecting officer below the rank of

Assistant General Manager shall be provided with 2nd class AC ticket.

- (iii) The Air-ticket / train-ticket booking/cancellation is the responsibility of the contractor / supplier.
- (iv) Moreover, if during the journey there is an unavoidable necessity for intermediate travel by road/ waterway/sea-route, the contractor/supplier shall provide suitable conveyance to the inspecting officer for travel this stretch of journey or bear the cost towards this. Any such possibilities shall be duly intimated to OPTCL at the time of their offer for inspection.

**c) Local Conveyance:**

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

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

- (i) All the above expenses shall be deemed to be included in the bidder's quoted price for that supply item. Bidder shall not be eligible to raise any extra claim in this regard.
- (ii) Contractor/supplier/manufacturer may assume that only in 40% of the inspection and testing offer cases, OPTCL inspecting officer, not below the rank of Assistant General Manager will witness the inspection and testing.
- (iii) In case of inspection and testing of some critical equipment/materials like Power transformers, OPTCL may depute more than one inspecting officer.  
(iv) Contractor/supplier/manufacturer shall judiciously plan the inspection/testing schedule and place of inspection/testing, so that optimum number of inspection/testing and minimum time shall be required to cover all the equipment/materials of the relevant contract package.
- (v) It shall be the responsibility of the Contractor/Supplier to organize the above tour related matters of OPTCL inspecting officer including the matters related to overseas inspection/testing, if any.

**21. Litigation/Arbitration**

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

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

**22. Pre-bid conference :** A pre-bid meeting shall be held on the scheduled date & time at the conference hall of the office of the Senior General Manager, CPC. OPTCL. Interested bidders may raise written queries **three days (03)** prior to the pre bid conference, if any, pertaining to this tender package, which shall be clarified during the pre-bid conference and to be uploaded in OPTCL website. **Queries after the dead line as indicated above shall not be entertained.**

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## **SECTION – II.**

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

<b><u>Clause.</u></b>	<b><u>Title.</u></b>
1.	Scope of the contract.
2.	Definition of terms.
3.	Manner of execution.
4.	Inspection and testing.
5.	Training facilities.
6.	Rejection of materials.
7.	Experience of bidders.
8.	Language and measures.
9.	Deviation from Specification.
10.	Right to reject/accept any tender.
11,	Supplier to inform himself fully.
12.	Patent rights etc.
13.	Delivery.
14.	Despatch Instructions.
15.	Supplier's Default Liability.
16	Force Majeure.
17.	Extension of Time.
18.	Guarantee Period.
19.	Bank Guarantee towards Security Deposit, Payment and Performance.
20.	Import License.
21.	Terms of Payment.
22.	Price Reduction for Delay in Completion of Contract
23.	Insurance.
24.	Payment Due from the Supplier.
25.	Sales Tax clearance & GST rating, Audited Accounts
26.	Certificate of exemption from Goods & Services Tax.
27.	Supplier's Responsibility.
28.	Validity.
29.	Evaluation.
30.	Minimum qualification criteria of Bidders.
31.	Jurisdiction of High Court of ODISHA.
32.	Correspondences.
33.	Official Address of the Parties to the Contract.
34.	Outright rejection of Tenders.
35.	Documents to be treated as confidential.
36.	Scheme/Projects.

**PART-I**  
**SECTION-II**

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

**1. Scope of the contract:**

The scope of the contract shall be to design, manufacture, supply and installation of equipment as per the specification, and rendering services in accordance with the enclosed technical specification and bill of quantity.

**2.0 Definition of terms:**

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

**2.1.1** “The Purchaser” shall mean the SENIOR GENERAL MANAGER for and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., Bhubaneswar.

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

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

2.4 “The supplier” shall mean the bidder whose bid has been accepted by the purchaser and shall include the bidder’s executives, administrators, successors and permitted assignees.

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

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

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

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

2.9 “Month” shall mean “Calendar month”.

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

2.11 “Basic Price (Taxable value for Goods & Services) at the point of destination” shall mean the price quoted by the bidder for equipment, material & services at the consignee’s store/site. The cost is inclusive of packing, forwarding, freight, insurance and all expenses and taxes & duties at the end of the supplier excluding Goods & Service Tax. The Goods & Service Tax shall be shown in a separate column item wise alongside the Basic Price quoted at the applicable rate in the Tax Invoice. The applicable rate of GST shall refer to the HSN/SAC code of the material/service supplied. The Basic Price and GST thereon shall be the “FOR Destination Price” as quoted by the bidder.

2.12 The term “Contract document” shall mean and include GTCC, specifications,

schedules, drawings, form of tender, Notice Inviting Tender, covering letter, schedule of prices or the final General Conditions, any special conditions, applicable to the particular contract.

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

3. **Manner of execution:**

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

4. **Inspection and Testing:**

- [i] The purchaser's representative shall be entitled at all reasonable times during manufacture to inspect, examine and test at the supplier's premises, the materials and workmanship of all equipment/materials to be supplied under this contract and if part of the said equipment/material is being manufactured in other premises, the supplier shall obtain for the purchaser's representative permission to inspect, examine and test as if the equipment/material were being manufactured in the contractor's premises. Such inspection, examination and testing shall not relieve the supplier from his obligations under the contract.
- [ii] The Supplier shall give to the purchaser adequate time/notice (at least clear 15 days for inside the state suppliers and 20 days for outside the state suppliers) in writing for inspection of materials indicating the place at which the equipment/material is ready for testing and inspection and shall also furnish the shop Routine Test Certificate, Calibration certificates of Testing instruments, calibrated in Govt. approved laboratory with authenticity letter of that laboratory along with the offer for inspection. A packing list along with the offer, indicating the quantity which can be delivered in full truck load/Mini truck load to facilitate issue of dispatch instruction shall also be furnished.
- [iii] Where the contract provides for test at the Premises of the supplier or any of his sub-vendors, the supplier shall provide such assistance, labour, materials, electricity, fuel and instruments, as may be required or as may be reasonably demanded by the Purchaser's representative to carry out such tests efficiently. The supplier is required to produce shop routine test Certificate, calibration certificates of Testing Instruments before offering their materials/equipment for inspection & testing. The test house/laboratory where tests are to be carried out must be approved by the Govt. A letter pertaining to Govt. approved laboratory must be furnished to the purchaser along with the offer for inspection.
- [iv] After completion of the tests, the Purchaser's representative shall forward the test results to the Purchaser. If the test results conform to the specific standard and specification, the Purchaser shall approve the test results and communicate the same to the supplier in writing. The supplier shall provide at least five copies of the test certificates to the Purchaser.

- [v] The Purchaser has the right to have the tests carried out at his own cost by an independent agency whenever there is dispute regarding the quality of supply.
- [vi] If the firm fails to present the offered items for inspection/testing as per their inspection call due to any reason(s) during the visit of inspecting officer at the testing site, the firm shall have to bear all expenses towards repetition of inspection and testing of the total offered quantity or part thereof.

5. **Training facilities.**

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

6. **Rejection of Materials.**

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

- [a] At its option replace or rectify such defective equipment /materials and recover the extra costs so involved from the supplier plus fifteen percent and/or.
- [b] Terminate the contract for balance work/supplies, with enforcement of penalty Clause as per contract for the un-delivered goods and with forfeiture of Performance Guarantee/ Composite Bank guarantee.
- [c] Acquire the defective equipment/materials at reduced price, considered equitable under the circumstances.

7. **Experience of Bidders:**

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

- [i] Name of the manufacturer:
- [ii] Standing of the firm and experience in manufacture of equipment/material quoted:
- [iii] Description of equipment/material similar to that quoted, supplied and installed during the last five years with the name(s) of the Organization's to whom supplies were made wherein, at least one (1) certificate shall be from a state/central P.S.U.
- [iv] Details as to where installed etc.
- [v] Testing facilities at manufacturer's works.

- [vi] If the manufacturer is having collaboration with another firm [s], details regarding the same.
- [vii] A list of work orders of identical material/equipment offered as per technical specification executed during the last two years along with users certificate. User's certificate shall be legible and must indicate, user's name, address, designation, place of use, and satisfactory performance of the equipment/materials for at least **one year** from the date of commissioning. Wherein at least one (1) certificate shall be from a State/Central or P.S.U. Bids will not be considered if the past manufacturing experience is found to be un-satisfactory or is of **less than 3 (three)** years on the date of opening of the bid and bids not accompanying user's certificate will be rejected.

8. **Language and measures:**

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

9. **Deviation from specification:**

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

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

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

The purchaser reserves the right either to reject or to accept any or all tenders if the situation so warrants in the interest of the purchaser. The purchaser has exclusive right to alter the quantities of materials/ equipment / services / AMC at the time of placing final purchase order. After placing of the order, the purchaser may defer the delivery of the materials. It may be clearly understood by the Tenderer that the purchaser need not assign any reason for any of the above action [s].

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

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

incorrect information, obtained by the supplier other than the information given to the supplier in writing by the purchaser.

12. **Patent rights Etc.**

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

13. **Delivery:**

- [a] Time being the essence of the contract; the equipment shall be supplied within the delivery period, specified in the contract. The Purchaser, however, reserves the right to reschedule the delivery and change the destination if required. The delivery period shall be reckoned from the date of placing the Letter of Intent/Purchase order, as may be specified in LOI/Purchase order.
- [b] The desired delivery period shall be as indicated at **APPENDIX-I** of Section-IV (Technical Specification).

14. **Despatch instructions.**

- I] The equipment / materials should be securely packed and dispatched directly to the specified site at the supplier's risk.

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

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

The Purchaser shall have no responsibility on this account.

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

- [i] The Purchaser may, upon written notice of default to the supplier, terminate the contract in circumstances detailed hereunder.
- [a] If in the judgment of the Purchaser, the supplier fails to make delivery of equipment/material within the time specified in the contract or within the period for which if extension has been granted by the Purchaser in writing in response to written request of the supplier.
- [b] If in the judgment of the Purchaser, the supplier fails to comply with any of the provisions of this contract.
- [ii] In the event, Purchaser terminates the contract in whole or in part as provided in Clause-15 [I] of this section, the Purchaser reserves the right to purchase upon such terms and in such a manner as he may deem appropriate in relation to the equipment/material similar to that terminated and the supplier will be liable to the Purchaser for any additional costs for such similar equipment/material and/or for penalty for delay as defined in Clause-22 of this section until such reasonable time as may be required for the final supply of equipment.

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

16 **Force Majeure:**

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

17. **Extension of time:-**

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

18. **Guarantee period: - ( As per Clause-K of the technical specification).**

[i] The stores covered by this specification should be guaranteed for satisfactory operation and against defects in design, materials and workmanship for a period of 36 months from the date of commissioning. The above guarantee certificate shall be furnished in triplicate to the purchaser for his approval. Any defect noticed during this period should be rectified by the supplier free of cost to the purchaser provided such defects are due to faulty design, bad workmanship or bad materials used, within one month upon written notice from the purchaser failing which provision of Clause 22 (ii) of this section shall apply.

[ii] Equipment/material /services failed or found defective during the guarantee period shall have to be guaranteed after repair/replacement for a further period of 36 months from the date of commissioning. The Bank Guarantee is to be extended accordingly. Date of delivery as used in this clause shall mean the date on which the materials are received & installed/commissioned in OPTCL'S site in full & good condition which are released for Despatch by the purchaser after due inspection.

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

[i] For manufacturers/system integrators situated Inside & outside the state of Odisha.

A Composite Bank Guarantee as per the Proforma enclosed at Annexure-XXI of the specification for 10% [ten percent] of the Total Landing cost (Taxable Value plus GST thereon) of the purchase order, shall be furnished from any nationalized/scheduled bank having a place of business at Bhubaneswar, to the

office of Sr.General Manager [Central Procurement Cell] OPTCL within 15 days from the date of issue of the purchase order,. The BG shall be executed on non judicial stamp paper worth of Rs.29.00 [Rupees twenty nine] only or as per the prevalent rules, valid for a period of 2 months from the last date of delivery and commissioning period, for scrutiny and acceptance, failing which the supply order will be liable for cancellation without any further written notices. The BG should be accompanied by a confirmation letter from the concerned bank and should have provision for encashment at Bhubaneswar, before the Bank Guarantee is accepted and all concerned intimated. The B.G should be revalidated as and when intimated to you to cover the entire guarantee period.

- [ii] No interest is payable on any kind of Bank Guarantee.
- [iii] In case of non-fulfillment of contractual obligation, as required in the detailed purchase order/Specification, the composite Bank guarantee shall be forfeited.
- [iv] **BG FOR AMC** : Performance BG against AMC shall be furnished by the contractor as per the clause-III, Section-V

## **20. Import License**

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

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

- i) 100% taxable value with 100% Goods and Services Tax in full as applicable will be paid on receipt of materials in good condition at stores/desired site and verification thereof and after complete installation and commissioning of ADMS subject to furnishing and approval of (a) Contract cum Performance Bank Guarantee at the rate of 10% (Ten percent) of Taxable Value plus GST thereon (b) Guarantee certificate, (c) Test certificate by the Purchaser.
- ii) TDS under GST Laws shall be deducted, as applicable.
- iii) Any imposition of new tax or revision of tax shall be paid/reimbursed at the time of dispatch, scheduled or actual whichever is lower (i.e. If delivery is within schedule period, tax variation as applicable shall be paid, and if delivery is made beyond schedule date, any additional financial implication due to statutory variation in tax shall be to bidder's account)

**(B)** The supplier shall furnish contract cum performance Bank Guarantee of appropriate amount to OPTCL as indicated in (i) above, within 30 (Thirty) days from the date of issue of the purchase order.

**(C)** The terms of payment for comprehensive Annual Maintenance Contract (AMC) of ADMS is as per Clause-3 of Section-V(Specification for comprehensive AMC).

## **22. Price Reduction Schedule for Delay in Completion of Supply under Purchase Order/Contract**

- (i) If the Supplier fails to deliver the materials/equipment /complete installation & commissioning within the delivery schedule, specified in the Purchase Order/Contract including delivery time extension, if any, granted with waiver of Price Reduction Schedule, the Purchaser shall recover from the Supplier, Price

Reduction Schedule for a sum of half per cent (0.5 per cent) of the Taxable Value of the un-delivered equipment / materials for each calendar week of delay or part thereof. For this purpose, the date of receipted challan shall be reckoned as the date of delivery. The total amount of Price Reduction Schedule shall not exceed five per cent (5%) of the Taxable Value of the un-delivered equipment/materials/service. Equipment will be deemed to have been delivered only when all its components, accessories and spares as per technical Specification are also delivered. If certain components, accessories and spares are not delivered in time, the equipment/materials will be considered delayed until such time as the missing components, accessories and spares are delivered.

(ii) During the guarantee period, if the Supplier fails to rectify/replace the equipment/material / install within 30 days from the date of intimation of defect by the purchaser, then the Price Reduction Schedule at the rate of half percent (0.5%) of the Total Taxable Value for each calendar week of delay or part thereof shall be recovered by the purchaser. For this purpose, Price Reduction Schedule shall be reckoned from the 30th day from the date of issue of letter on defectiveness of equipment/material. The total amount of Price Reduction Schedule in this case shall not exceed 10% (TEN PERCENT) of the Purchase Order/Contract amount except GST (i.e. Total Taxable Value). If the defects, so intimated are not rectified or equipment/materials not replaced by the supplier within the guarantee period, then whole of the C.P.B.G. will be forfeited by the purchaser, without any intimation to the supplier.

(iii) **Price reduction Schedule for AMC for ADMS:** As per clause-IV, Section-V (Specification for comprehensive AMC of ADMS)

### 23. **Insurance**

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

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

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

### 25. **Rating under Goods and Services Tax and Balance sheet and profit & Loss Account:**

The following documents are to be submitted at the time of Tender Submission:

- i. Compliance rating under Goods and Services Tax for immediate preceding financial year.
- ii. Audited Balance Sheet and Profit & Loss Account of the bidder for the previous

three years to assess the financial soundness of the bidder(s).

iii. GST registration certificate and PAN Card Copy.

iv. Tax holiday/exemption certificate under GST or any other Act.

v. TDS exemption certificate under the Income Tax Act or any other act.

**26. Certificate of Exemption from Goods and Services Tax.**

Offers with exemption from Goods and Services Tax shall be accompanied with authenticated attested Photostat copy of exemption certificate. Any claim towards Goods and Services Tax shall be paid on actual basis subject to payment of GST by the supplier. In case Outward supply details of the supplier of Goods in GSTR-1 do not match with GSTR -2 of OPTCL on GSTN portal, the same will be adjusted through debit/credit advice issued by OPTCL under intimation to the supplier after allowing cooling period of 3 months after the date of supply.

**27. Supplier's Responsibility.**

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

**28. Validity.**

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

**29. EVALUATION.**

(i) Evaluation of price bids will be on the basis of the TOTAL FOR DESTINATION PRICE including Goods and Services Tax & other levies as may be applicable. The FORD PRICE shall consist of the following components:

a) Taxable value of equipment/materials including mandatory spares, if any for maintenance of equipment. (At the discretion of the purchaser)

b) Goods and Services Tax

c) Other levies, if any.

d) Test charges, if any.

e) Commissioning charges, if any.

f) Comprehensive AMC charges for 5 years beyond the successful completion of guarantee period.

g) Any other items, as deemed proper for evaluation by the purchaser.

h) Loading will be made for items not quoted by the bidder at the highest rate quoted by other bidders unless particular item is included in other items.

i) Any imposition of new tax or revision of tax shall be considered between due date of submission of bids and the date of price bid opening.

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

In comparing bids and in making awards, the Purchaser will consider other factors

such as compliance with Specification, minimum qualification criteria as per clause-30, outright rejection of tenders clause-34 of this tender, relative quality, adaptability of Supplies or services, experience, financial soundness, record of integrity in dealings, performance of materials/equipment earlier supplied, ability to furnish repairs and maintenance services, the time of delivery, capability to perform including available facilities such as adequate shops, plants, equipment and technical organization. Preference shall be given to the bidders who have successfully implemented such Automatic Demand management Schemes in the past.

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

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

- i. The bidder shall be Original Equipment Manufacturer / System integrator of the ADMS or such type of scheme/solutions (SCADA). In case the bidder is a system integrator, he should have all the routine test facility of the offered equipment in India.
- ii. The bidder shall furnish the full technical details of the equipment offered.
- iii. The bidder shall have the experience of at least 3 years supply & installation of similar type of equipment's as on the date of opening of the bid(Pt-I). Bidder shall have to submit order copy as documentary proof for the above.
- iv. Average annual turnover of the bidder shall be more than Rs 8.00 Crores in last 3 years. The bidder has to submit certificate from CA for last 3 years turnover and audited annual report of last 3 years.
- v. The bidder should have carried out at least one such type of project in last 3 years. Bidder shall have to submit order copy and 1 (one) year performance certificate from the date of open of technical bid as documentary proof for above.
- vi. The bidder should have conducted type tests on the tendered equipment in Government approved laboratory within five years from the date of opening of the tender.

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

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

**32. Correspondences.**

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

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

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

[i] **Purchaser:** Senior General Manager, CPC  
ODISHA POWER TRANSMISSION CORPORATION LIMITED,  
Bhubaneswar-751022, Odisha.  
Telephone No. 0674 - 2541801  
FAX No. 0674 - 2542964

[ii] **Supplier:** Address  
Telephone No.  
Fax No.

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

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

- [i] The tenderer shall submit the bid in electronic mode only and shall submit the tender cost on or before the date and time of **opening** of technical bid (part-I).
- [ii] The tenderer shall submit the bid in electronic mode only.
- [iii] The Tender shall not be submitted telegraphically or by FAX.
- [iv] The prescribed EMD shall be submitted on or before the date and time of **opening** of technical bid (Part-I).
- [v] The Tender shall be kept valid for a minimum period of 180 days from the date of opening of tender.
- [vi] The Tender shall be submitted in single stage two part as specified.
- [vii] The tenderer shall upload the scanned copy of latest type test certificates (for the tests, carried out on the tendered equipment, being offered). Such type tests should have been conducted within last five years from the date of opening of this tender in a Government approved laboratory/CPRI in presence of any Government Organization's representative(s).
- [viii] The schedule of prices should be filled up fully to indicate the break-up of the prices including taxes and duties. Incomplete submission of this schedule will make the tender liable for rejection.
- [ix] The Tenderer should quote 'FIRM' price only and the price should be kept valid for a minimum period of 180 days from the date of opening of the tender.
- (x) Guaranteed Technical particulars & Abstract of terms and Conditions should be filled in completely.
- (xi) (a) Detailed information on any litigation or arbitration arising out of contract completed or under execution by it over the last five years. A consistent history of litigation by or against the bidder may result in rejection of bid.
- (xi) (b) The bidder should not have any pending litigation or arbitration with OPTCL with regard to any project or related activity. The bidder should certify / declare the same in the unequivocal terms by way of an affidavit duly sworn before a magistrate/notary. Bid furnished by the bidder shall not be eligible for consideration if it is not accompanied by the affidavit. Further the bid / LOA/ LOI shall be liable for outright rejection/ cancellation at any stage if any information contrary to the affidavit / declaration is detected.

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

The supplier shall treat the details of the specification and other tender documents

as private and confidential and these shall not be reproduced without written authorization from the Purchaser.

36. **Scheme/Projects**

The materials/equipment covered in this specification shall come under capital works of SLDC with financial support of “PSDF”.

# **PART-I**

## **SECTION - III**

### **LIST OF ANNEXURES ( I TO XIII )**

**SECTION – III**  
**[LIST OF ANNEXURES]**

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

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



## ANNEXURE-II

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

(To be filled up by the tenderer as indicated in the excel sheet for “Abstract of price component & other commercial terms”)

## ANNEXURE-III

### SCHEDULE OF QUANTITY AND DELIVERY ALONG WITH INSTALLATION & COMMISSIONING

#### SCHEDULE OF QUANTITY & DELIVERY

<b>Design / development, supply, installation, testing, commissioning &amp; maintenance of Automatic Demand Management Scheme for Odisha Power System.</b>			
<b>SI No</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>Quantity</b>	<b>Desired delivery, Installation &amp; commissioning</b>
1	System Study, Engineering and Design of ADMS at 100 Substations	100 Nos.	
2	Development of ADMS Server monitoring and control software along with Remote Mini RTU software (Web based for server and RTU). Hardware & Software Customization, Testing, verification.	1 JOB	
3	Server with MPLS / LL Router, (2 WAN PORT), 3G Modem with UPS including installation and commissioning	1 Set	
4	Additional Backup server at SLDC with MPLS / LL Router, (2 WAN PORT), 3G Modem with UPS and failover facility including installation and commissioning	1 Set	
5	Feeder Tripping Controller (FTC) with OPGW / MPLS / GPRS modem with 8 Nos. 110 V, 10 A relay including connection. IP55 Panel with 5.7 " touch display, 8 DO 10A /110V SS relay or ( 8 DO10A relay, 4DI, 4AI), RS 485 for smart meter, 3G dual SIM card with One port WAN router for VPNOBB or MPLS lease line.	100 Nos.	
6	Installation & Commissioning including testing of Feeder Tripping Controller (FTC) and gateway devices as per Technical Specification (Section IV) of this tender document.	100 Nos.	
	<b>PART -2</b>		
1	Comprehensive AMC of SLDC control centre Servers along with associated equipment and 100 nos. field substation end equipment excluding communication link. However restoration of failed communication link is to be identified and co-ordinated for restoration for full functionality.		
a	AMC for 1 <sup>st</sup> Year	1 JOB	
b	AMC for 2 <sup>nd</sup> Year	1 JOB	
c	AMC for 3 <sup>rd</sup> Year	1 JOB	
d	AMC for 4 <sup>th</sup> Year	1 JOB	
e	AMC for 5 <sup>th</sup> Year	1 JOB	

Signature of Tenderer

with seal of Company

**ANNEXURE-IV**

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

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

**ANNEXURE-V.**

**SCHEDULE OF PRICES**

**TENDER SPECIFICATION**

**No.**

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

1. The tenderer should fill up the price schedule properly in excel file in e-tender mode. The tender will be rejected, if the price bid is not submitted in accordance with the price schedule. No post tender correspondence will be entertained on break-up of prices. Also, the supplier should agree for delivery at the desired site.
2. The Tenderer shall give an undertaking in part-I of the bid that, entire implication of lower tax and input tax credit benefit have been fully passed on to the purchaser as per anti-profiteering and other provisions under GST Laws while quoting the tender price.
3. Conditional offers will not be acceptable.

Signature of Tenderer

Name, Designation and Seal

[PROFORMA FOR BANK GUARANTEE FORM FOR EARNEST MONEY DEPOSIT]

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

- a) Ref No: .....
  - b) Bank Guarantee No. ....
- Date:.....  
 BG Amount:.....  
 Validity Period:.....

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

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

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

2. We, the \_\_\_\_\_ [indicate the name of the Bank, Address, Code] do hereby further undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from OPTCL. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... ( Rupees in words.....)

3. We undertake to pay to OPTCL any money so demanded not withstanding any dispute or disputes so raised by the bidder in any suit or proceeding instituted/pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our

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

4. We, the \_\_\_\_\_ Bank further agree that the guarantee herein contained shall remain in full force and effect during the aforesaid period of \_\_\_\_\_ days [in words]..... (as per Tender Specification) and it shall continue to be so enforceable till all the dues of OPTCL under or by virtue of the said Bid have been fully paid and its claims satisfied or discharged or till OPTCL certifies that the terms and conditions of the said Bid have been fully and properly carried out by the said bidder and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us or our Branch Office at Bhubaneswar <Mention Name, Address & Code of the Branch Office at Bhubaneswar of Issuing Bank> in writing on or before \_\_\_\_\_ we shall be discharged from all liability under this guarantee thereafter.
  
5. We the \_\_\_\_\_ Bank further agree with OPTCL that OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Bid or to extend time of performance by the said Bidder from time to time or to postpone for any time or from time to time any of the powers exercisable by OPTCL against the said Bidder and to forbear or enforce any of the terms and conditions relating to the said Bid and we shall not be relieved from our liability by reason of any such variation, postponement or extension granted to the Bidder or for any forbearance, act or omission on the part of OPTCL or any indulgence by OPTCL to the said Bidder or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of so relieving us.
  
- 6 This guarantee will not be discharged due to the change in the name, style and constitution of the Bank and/or of the Bidder.
  
- 7 We \_\_\_\_\_ [indicate the name of Bank, Address & Code] lastly undertake not to revoke this guarantee during its currency except with the previous consent of OPTCL in writing .
  
8. We, the \_\_\_\_\_ Bank (Name, Address & Code) further agree that this guarantee shall also be invocable at our place of business at ----- Branch of **Bhubaneswar** (indicate Name, Address & Code of the Branch at Bhubaneswar) in the State of Odisha.”

**“ Notwithstanding anything contained herein”**

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

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

ICIC0000061).

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

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

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

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

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

**N.B.:**

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

## Format for SFMS details

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

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

[PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT

PAYMENT AND PERFORMANCE]

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

- c) **Ref No:-** .....
- d) **Bank Guarantee No.** .....
- Date:** .....
- BG Amount:**.....
- Validity Period:**.....

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

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

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

instituted / pending before any court or tribunal relating thereto, our liability under this present being absolute and irrevocable. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor shall have no claim against us for making such payment.

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

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

5. We, the \_\_\_\_\_ Bank [indicate the name of the Bank, Address & Code] further agree with the Board that OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Bid or to extend time or performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by OPTCL against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Bid and we shall not be relieved from our liability by reason of any such variation postponement or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of OPTCL or any indulgence by OPTCL to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of so relieving us.

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

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

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

**“ Notwithstanding anything contained herein”**

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

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

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

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

ICIC0000061).

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

Signature.....

Full Name.....

Designation.....

Power Of Attorney.....

Dated.....

Seal of the Bank.....

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

1. Signature.....

Full Name.....

2. Signature.....

Full Name.....

**N.B.:**

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

## Format for SFMS details

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

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

## ANNEXURE-VIII

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

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

NB: - REFUND OF E.M.D.

[a] In case of unsuccessful tenderers, the EMD will be refunded immediately after the tender is decided. In case of successful tenderer, this will be refunded only after furnishing of Composite Bank Guarantee referred to in clause No.19 of Section-II of this specification.

Suits, if any, arising out of EMD shall be filed in a court of law to which the jurisdiction of High Court of ODISHA extends.

[b] Earnest Money will be forfeited if the tenderer fails to accept the letter of intent/purchase order, issued in his favour or revises the bid price[ s] within the validity period of Bid.

## **ANNEXURE-IX**

### *DATA ON EXPERIENCE*

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

Place:

Date:

Signature of tenderer

Name, Designation, Seal

**ANNEXURE-X**

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

SL. No	Particulars	Quantity	Unit delivery rate	Total price

Place:

Date:

Signature of Tenderer

Name, Designation, Seal

**ANNEXURE-XI**

**SCHEDULE OF INSTALLATIONS.**

Voltage Class, Rating/Capacity	Rated Voltage	Place of installation and complete postal address	Year of commissioning

Place: -

Date

Signature of Tenderer:

Name, Designation, Seal

**ANNEXURE-XII**  
**DEVIATION SCHEDULE.**

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

**TO ACCOMPANY PART-I**

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

**i. Technical deviations**TO ACCOMPANY PART-I****

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

**ii. Commercial deviations**TO ACCOMPANY PART-I****

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

**ANNEXURE – XIII**

**LITIGATION HISTORY**

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

Place: -

Date

Signature of Tenderer:  
Name, Designation, Seal



## **PART-I**

### **SECTION - IV**

#### **SCHEDULE OF TECHNICAL REQUIREMENTS AND DETAILED TECHNICAL SPECIFICATIONS FOR DESIGN/ DEVELOP, SUPPLY, INSTALLATION, TESTING, COMMISSIONING & MAINTENANCE OF ADMS FOR ODISHA POWER SYSTEM**

#### **TENDER SPECIFICATION**

**NO. Sr.G.M.-CPC-e-Tender-Telecom-SLDC-ADMS-16 /2019-20**



## TECHNICAL SPECIFICATIONS FOR DESIGN/ DEVELOP, SUPPLY, INSTALLATION, TESTING, COMMISSIONING & MAINTENANCE OF ADMS FOR ODISHA POWER SYSTEM.

### A): SCOPE-Design/Develop, supply, installation, testing, commissioning of ADMS

The scope covers following;

1. Development of ADMS server software **as per logic defined by CERC notification.**
2. Supply of Hardware server at SLDC Control centre to run ADMS server software.
3. Design/develop and supply of Substation Tripping Interface and reporting / monitoring device ( Remote Terminal Unit ).
4. OPGW integration connectivity with dedicated IP scheme. Connectivity may be over DPLC/ Leased network (MPLS) /GPRS where there is no OPGW.
5. Supply of all necessary accessories and cable as per survey for 132 kV/ 33 kV substation in Odisha state.
6. Installation, testing and commissioning of complete system.

### B): Preamble

As per CERC guidelines for Deviation Settlement Mechanism, the over drawl/under drawl of power is to be maintained within limits of 150MW or 12% of schedule whichever is lower. For that a Automatic Demand Management Scheme is required to be developed and implemented on the four DISCOM of the Odisha State.

At SLDC control centre above scheme with following configurable logic shall be developed.

1. System Frequency
2. Odisha over-drawl
3. DISCOM over-drawl
4. Group
5. Substation

6. The 24 hours of a day is to be divided into 05 minutes block periods.

The logic shall be as under:

1. System Frequency < 49.9 Hz
2. Odisha over-drawl > 12% of Schedule or 150 MW whichever is lower
3. DISCOM over-drawl > 12% of Schedule or OERC approved share percentage of 150 MW whichever is lower.

- ❖ The 24 hours of a day is to be divided into 05 minutes block periods.  
If above condition persists for a 05 minutes block with average data then generate tripping command at 06<sup>th</sup> minute for First group. (e.g. G1). That will cover all the sub-station under this group (Time period of blocks can be varied from 1 minute to 30 minutes and configurable)
- ❖ After tripping of one group of feeders, the logic is blocked for that DISCOM for 30 minutes (Time period of logic blocking can be varied from 00:00:00 hours to 24:00:00hours and configurable).
- ❖ After half an hour if condition persists in the next 5 minute block period, then send tripping command to second group (e.g. G2) ( time also be configurable in software) at the 6<sup>th</sup> minute.
- ❖ Repeat the logic for next group if above condition persist in round robin. ( Group can be added / modified from main SLDC server )
- ❖ This logic is applicable to all DISCOMs.
- ❖ The tripping Group order should reset every day at 23:59Hrs. For example if on a particular day tripping for Group-1, 2, 3 & 4 for a DISCOM operated, on the next day the tripping should start from Group-1 again and not from Group-5.
- ❖ Substation 33KV feeder status (on/off), automatic tripping as well as restoration also can be monitored with reporting at SLDC server.
- ❖ Substation 33KV feeder manual operation can be monitored and reporting can be logged at SLDC server.
- ❖ The trip command should be encrypted to ensure security.  
There should be email/ SMS auto generation for information of the trip signal generated to designated device.

**C): System software Design**

The proposed system is to be designed keeping in view of the following points.

- a. 24 x 7, 365 days working of system.
- b. The system should be completely menu driven and user friendly in all respect using HMI /GUI. It should support point and click technology.
- c. GUI for configuration and inputting the mobile number and email ids for sending operational, tripping, trouble status with administrative privileges.
- d. It should be robust system which is crash proof, fail safe, easy to restore

& secure.

- e. Backup & restore in-built in to the software.
- f. Software designed should operate with Logic conceived from defined power system frequency, defined over-drawl of Odisha, defined Over drawl of constituent/DISCOM.
- g. User ID & Password should be allotted to user so that no unauthorized person can work on the software.
- h. Access to menu items for execution should be restricted up to user level.
- i. Provision for temporarily disabling users against unauthorized use.
- j. Complete training to nominated 10 persons for H/W , S/W, configuring the device.

- k. Development of required data entry forms and reports (if any) as per requirements. Necessary back up of database, forms etc.
- l. Security: Security is the main key features for this application; users need total authentication and authorization for secured operation.
- m. Addition / Alteration / modification of user will be accommodated in the application as per the instruction of Administrator.
- n. The application will be compatible with the latest technology and upgradable with the evolution of the new technologies as and when required. The hosted application should be provided with suitable protection on the host computer or system with valid necessary development and operating licences.
- o. Day to day technical support 24x7 required to be ensured. For the application, the system designing shall be undertaken by the bidder which shall include :
  - Provision to save report in different formats like PDF, EXCEL etc...as per the requirement of SLDC.
  - There should be provision to print the reports as per requirement.
  - There should be email/ SMS auto generation for information of the trip signal generated to designated device.
  - Visual display for failure of remote station connectivity / tripping and feeder actual status should be available in ADMS Server at SLDC control centre.
  - In case of failure of main ADMS Server, the backup server should automatically take over the System operation and there should be no interruption.

#### **D): Software Development Logic**

As per system requirement following four DISCOMS are to be monitored.

1. SOUTHCO
2. NESCO
3. CESU

#### 4. WESCO

□ Each Discoms will presently be monitored for 5 Nos. Groups (Configurable up to 8Nos) having 5 Nos. substations (Configurable up to 8Nos) in each Group.

1. SCO-1 : SCO-2 : SCO-3 : SCO-4 : SCO-5
2. NCO-1 : NCO-2 : NCO-3 : NCO-4 : NCO-5
3. WCO-1 : WCO-2 : WCO-3 : WCO-4 : WCO-5
4. CESU-1 : CESU-2 : CESU-3 : CESU-4 : CESU-5

□ Each DISCOMs Groups will presently be monitored for 25 Nos. Substation. (5 Substation per Group) as under -

##### □ SOUTHCO

1. SCO-1 (SS-1; SS-2; SS-3; SS-4; SS-5)
2. SCO-2 (SS-1; SS-2; SS-3; SS-4; SS-5)
3. SCO-3 (SS-1; SS-2; SS-3; SS-4; SS-5)
4. SCO-4 (SS-1; SS-2; SS-3; SS-4; SS-5)
5. SCO-5 (SS-1; SS-2; SS-3; SS-4; SS-5)

##### □ NESCO

1. NCO-1 (SS-1; SS-2; SS-3; SS-4; SS-5)
2. NCO-2 (SS-1; SS-2; SS-3; SS-4; SS-5)
3. NCO-3 (SS-1; SS-2; SS-3; SS-4; SS-5)
4. NCO-4 (SS-1; SS-2; SS-3; SS-4; SS-5)
5. NCO-5 (SS-1; SS-2; SS-3; SS-4; SS-5)

##### □ CESU

1. CESU-1 (SS-1; SS-2; SS-3; SS-4; SS-5)
2. CESU-2 (SS-1; SS-2; SS-3; SS-4; SS-5)
3. CESU-3 (SS-1; SS-2; SS-3; SS-4; SS-5)
4. CESU-4 (SS-1; SS-2; SS-3; SS-4; SS-5)
5. CESU-5 (SS-1; SS-2; SS-3; SS-4; SS-5)

##### □ WESCO

1. WCO-1 (SS-1; SS-2; SS-3; SS-4; SS-5)
2. WCO-2 (SS-1; SS-2; SS-3; SS-4; SS-5)
3. WCO-3 (SS-1; SS-2; SS-3; SS-4; SS-5)
4. WCO-4 (SS-1; SS-2; SS-3; SS-4; SS-5)
5. WCO-5 (SS-1; SS-2; SS-3; SS-4; SS-5)

Further; necessary tripping SMS shall be transmitted to designated officers.

The necessary database for each feeders, sub-stations, Groups for each DISCOM to be created.

**The list of DISCOM wise Sub Station / Feeders is as per Annexure A (attached)**

#### **Software developed should be capable to:**

- Fetch .csv file format from Control centre server preferable through ftp

- server.
- Maximum group configurable should be 8(eight)
- Number of substations per group should be configurable to maximum 8 substations ( at present considered 5 substations)
- End substations equipment should be capable to extend signal to minimum 8 different feeders and upgradable up to 16 feeders.
- All eight contacts should be configurable for enable/disable from control centre.
- SLDC server with additional device should send SMS and E-mail to designated 10 different users for intimation of tripping.
- There should not be time delay more than 100ms in transferring tripping signal from control centre to end substations on account of device except communication delay
- There should be cyclic selection of 8 groups for tripping of designated feeders.
- There should be acknowledgement signal at control centre of signal received at substation with time stamp.
- Software should be configurable for designated time delay between two successive group operation (Range 00.00 to 24.00 hrs: minutes) which should be time sync as per UTC and necessary provision to be made for time sync is in the bidders scope.
- Provisions should be kept within logic that it will support the Systems and features of Grid Sub-stations on automation.
- Any new Grid Sub-station can be added in ADMS
- The bidder shall provide training to 10 officials nominated by OPTCL/SLDC on appropriate aspects of the ADMS software/hardware of concerned department & system administrator of SLDC.
- **Maintenance of Application systems-** During warranty period, removal of bugs from the application software shall be undertaken by the bidder.
- **Supply of source code-** The complete final source code of the software must be handed over to the system Administrator and it should be well commented. Any updating or addition in the source code during the 5 year AMC should be well documented and maintained. New version of the software should be given and old version should be preserved once the updating, alteration or addition is done in the source code. Suitable valid compiler (with valid license) should be given for source code compilation.

## E): Hardware Technical Specification

### 1) Server configuration

- RAM: 8 GB
- HDD: 1 TB
- Linux / Windows 12 server OS
- Xeon processor CPU (E7 family or higher)

- Master control unit with 3G router and Internet connectivity having static IP for SMS and Email.

**2) RTU with Gateway devices enclosure.**

RTU Specification:

- ARM Cortex A5/ A9 processor 400Mhz/ 1Ghz
- Standard IO, RS232 and RS485, Ethernet ,USB port.
- LCD colour display for visual control 7" in size
- External DC input connections
- 8 digital inputs Optically Isolated for feeder position monitoring ,
- 8 Digital output for feeder tripping
- RTC ( Real Time Clock)
- 16 GB SD card for event storage.

Tripping contactor specification:

- a. Rated insulation: Voltage 690V
- b. Rated Coil Voltage: 110V, 50 Hz or 230V, 50Hz
- c. Manual by pass contact should be provided
- d. Mechanical Life, No. operation cycles -15 million
- e. Rated current minimum 7.5A for 110V DC operation and 230V AC coil operation

SMPS should have suitable provision for following protections:

- f. Short Circuit Protection
- g. Over Voltage Protection (up to 300V AC continuous)

**Ethernet or GPRS Gateway specification:**

Specifications	
Standard Interfaces	4 Nos. Ethernet LAN
	1 No. Ethernet WAN
	3G WAN (ppp)
<b>Environment</b>	
Power Supply	AC / DC , Dual power source provision
Storage Temperature	-10°~ +85°C
Working Temperature	-10°~ +65°C
Humidity	95% (non-condensing)
<b>Network</b>	
HSPA / UMTS / 3G	UMTS 2100/1900/850 or 2100/1900/900 MHz

	Download: 7.2Mbps	
	Upload: 2.0Mbps	
	GSM / GPRS / EDGE	GSM 850/900/1800/1900MHz
	Download: 247.4Kbps	
	Upload: 123.7Kbps	
3)	<b>Functions</b>	<b>Sub-</b>
	WAN : PPP, PPPOE, Static, DHCP	
	LAN : Primary and Secondary IP support	
	Support NAT and DMZ host	
	Always on ,DoD or Time based connection	
	VPN : IPSec, L2TP, PPTP, GRE Tunnel	
	Terminal Server, DTU	
	SMS Connection control and status (optional)	
	MAC/IP/Port Filtering	
	Content/URL filtering	
	Port Forwarding	
	Management : Web/Console/Telnet	
	SNMP : V1,V2.V3	
	Configuration : Upload and backup	
	Remote Software upgrade	

**station RTU.**

**Enclosure:**

End Substation RTU enclosure Box conforming to IP55 protection, Isolator contact type ISI TB with 12/16/24 terminal connector having alarm enunciator (8 window) & 110/220 V DC operated hooter including associated wiring up to Terminal connector with 2.5 SQ. mm. ISI flexible wires.

1. Cubicle shall have provision for housing communication gateway devices .
2. In case of GPRS, all the SIM Cards must communicate with the Static IP of the Control Server only.
3. OPGW connectivity shall be terminated on Ethernet cable.
4. All events are to be time stamped and logs for the same should be sent to the server.
5. The Device should have on-board storage to store log data with time stamps in case they are not sent to server immediately due network outage. Memory should be enough to store at least 200 events with time stamps.
6. Server is to be able to retrieve the logs whenever connected to the Gateway Device
7. The Device is to be communicate and fetch data over RS-485 or RS-232 port

## 8. User Interface

- a. The complete data and control access is to be provided by a Password protected Login
- b. Aesthetically good looking and well finished graphics
- c. User is to have customized Log display
- d. The User should be able to configure
  - i. Tripping Logic (using parameters to be read and executed upon)
  - ii. Tripping Logic Parameters (addition/ deletion)
  - iii. Tripping sequence (change in the tripping sequence)
  - iv. Tripping bypass (bypass one or more tripping)
  - v. Log Report
    1. Downloadable from User Interface
    2. Via daily mailer to designated mail IDs.
    3. Customized Alerts for each tripping
      - i. SMS Alerts
      - ii. E-mail Alerts

### **4) Scalability:**

User should be able to add/delete/replace Sub-Station control up to 256 Nos. of Sub-Station control (from existing 100 Nos. of Sub-Stations).

### **F) Constructional and Mechanical Specifications:**

This section describes the specifications related to the constructional features of the RTU Enclosure.

1. The Enclosure should have IP55 protection with built-in power supply.
2. The Enclosure should have heat resistant front panel.
3. The complete system including the contactor, hooter and gateway device must be mounted in this enclosure with suitable lugs and screws firmly fitted.
4. The enclosure should have provision for well ventilation, illumination and door lock.

### **G) Operational Specifications:**

This section defines Environmental Specifications:

- i. Operating Temperature:  $-10^{\circ}\text{C} \sim +65^{\circ}\text{C}$
- ii. Storage Temperature:  $-10^{\circ}\text{C} \sim +85^{\circ}\text{C}$

iii. Humidity: up to 95% RH (Non-Condensing)

**H) Security:**

Data encryption is required between SLDC server and RTU. Best practice should be followed for Vulnerability assessment and penetration test for the ADMS System. The test should be carried out through a qualified agency and the test certificate has to be submitted in triplicate.

**I) Cables and accessories at substation to connect RTU and Feeder.**

Bidder has to supply necessary pair of 2.5Sq mm cable to connect each feeder to RTU enclosure.

(Approximate for 8 feeder require 1600 meter pair of 2.5 sqmm cable for each substation) actual length of cable necessary at a time of installation. (Digital in and Out contact )

**J): Installation & Commissioning:**

**Installation and commissioning includes following**

1. End to end testing server and ADMS software with SMS gateway and Internet base/ 3G base email system at SLDC control centre.
2. Installation and commissioning of 100 Nos. of 132 KV substation tripping interface device (RTU ) with 33 KV feeder relay wiring with Communication gateway.
3. Visit for Survey, installation, commissioning and point to point testing.

**K) Guarantee:**

Bidder has to provide guarantee of all equipment's for 3 years from the date of completion/Commissioning of the Project.

**Annual Maintenance contract :**

Comprehensive AMC contract including control centre and field substation (100 Nos.) end equipment for 5 years after 3 year warranty excluding communication link. However failed communication link is to be identified and coordinated with SLDC for restoration. Any changes during AMC should be documented and put up for approval.

**L) Other requirements:**

1. Bidder may visit the site for assessment of actual work involved.
2. Visit for site survey, installation, commissioning & testing is to be arranged by bidder at his cost. No extra cost shall be given.

3. The testing and commissioning is to be carried out in presence of SLDC/OPTCL engineers.
4. Before going for site survey, installation at sub-station end, bidder has to inform SLDC/OPTCL well in advance so as to convey the Substation In charge.
5. All tools and tackles, testing equipment's for installation, commissioning & testing shall be arranged by bidder. Only power supply will be provided at Substation.
6. **Technically accepted vendor will have to give demonstration of their Scheme at OPTCL Sub-station and SLDC Control Room during technical scrutiny if the employer wants to do so.**
7. Bidder has to carry out engineering of all Control centre and Substation interface device and the engineering drawings should got approved from the OPTCL / SLDC. After approval only vendor shall start the project panel work.
8. Finished Sub-station interface panel shall be offered for inspection at vendor works for acceptance test before actual delivery of material. The inspected material shall be dispatched after Dispatch instruction issued by project and after that Sub-station interface panel is to be dispatched.
9. Bidder is required to submit all the routine relevant test reports carried out for each Sub-station interface panel and should submit its copy.
10. Bidder shall have to give free of cost training of equipment offered at site/Substation and/or at SLDC to 10 Nos. engineers of OPTCL/SLDC.

**M) INSTRUCTION MANUAL:**

Bidder has to provide one set of operating & Maintenance Manual for each Utilities (OPTCL/SLDC) Hardware and software and same way for sub-station Interface device.

**N) PREQUALIFICATION REQUIREMENTS:**

**As per clause-30 of GTCC**

**O) SCHEDULE OF DEVIATION:**

It is in the interest of the tenderers to study the specification, specified in the tender schedule thoroughly before tendering so that, if any deviations are made by the Tenderers, (both Commercial and Technical), the same are prominently brought out on Annexure under heading "Deviation sheet (Commercial)"- ANNEXURE-XII(B) and "Deviation sheet (Technical)"- ANNEXURE-XII(A).

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

**P) Tentative Schedule for project implementation:**

The project has to be completed within the time frame as scheduled.  
The Detail schedule & deliverables shall be preferably as under:

Sl. No.	Task Name	Duration in months
1	Study of substation and feeder configuration	1
2	Hardware and software customization	1
3	Supply of components	1
4	Fabrication, Assembling and testing of FTC	1
5	Installation and commissioning & Testing	2

**P) Data Communication for ADMS Project:**

For reliable functioning of the ADMS system, communication link between ADMS Server at SLDC and the Feeder Tripping Controller in OPTCL substation is of paramount importance.  
Suitability for OPGW or MPLS or GPRS connectivity to the OPTCL substations shall be studied by the bidder and OPTCL will provide the link whichever is feasible. The bidder will manage the sub networking on own private IP scheme.

**TABLE-I**

**GUARANTEED TECHNICAL PARTICULARS  
(To be submitted by bidder with the tender)**

GUARANTEED TECHNICAL PARTICULARS (To be submitted by bidder with the tender)			
SL. No.	Description	As per technical specification	Offered by supplier
	GENERAL		
1	Manufacturer's name & address		
2	Model No.		
3	Applicable standards		
4	ADMS software development		
	a)	Nos. of DISCOMs	4 Nos.
	b)	Nos. of Groups in each DISCOM	8 Nos.(Min)

	c)	Nos. of Stations in each Group	8 Nos.(Min)	
	d)	Nos. of Feeders in each Station	8 Nos minimum and expandable to 16 Nos.	
	e)	SMS for each tripping to users	20 users(max)	
5	Server Configuration: Industrial grade PC for control center			
	a)	RAM	Minimum 8GB	
	b)	HDD	Minimum 1TB	
	c)	Operating system	Linux/ Windows 12 OS license version	
	d)	Processor:	Xeon processor CPU E7 family or higher	
	e)	VGA Port	Dual	
	f)	CPU power supply	Dual	
	g)	LAN port	Dual	
6	Ethernet / GPRS gateway device			
	a)	Power supply	AC / DC, Dual power source provision	
	b)	Tripping contactor specification:		
		(i)	Rated insulation:	Voltage 690V
		(ii)	Rated Coil Voltage:	110V, 50 Hz or 230V, 50Hz
		(iii)	Rated current	minimum 7.5A for 110V DC & 230V AC operation
7	Sub-station Cubicle (RTU) with Gateway device enclosure.			
	a)	End Cubicle Box	IP55 protection	
	b)	Terminal type	Isolator contact type ISI TB with 12/16/24 terminal connector	
	c)	Alarm annunciation	8 window with hooter	
	d)	Standard Interface	(i) 4 Nos. Ethernet LAN (ii) 1 No. Ethernet WAN (iii) 3G WAN (ppp)	

	e)	RTU Specification	(i) ARM Cortex A5/A9 processor 400Mhz/ 1Ghz (ii) Standard IO, RS232 and RS485, Ethernet ,USB port. (iii) LCD colour display for visual control 7" in size (iv) 8 digital inputs Optically Isolated for feeder position monitoring (v) 8 Digital output for feeder tripping	
8	Environmental			
	a)	Operating Temperature:	-10°C ~ +65°C	
	b)	Storage Temperature:	-10°C ~ +85°C	
	c)	Humidity:	up to 95% RH (Non-Condensing)	

**BILL OF QUANTITY & DELIVERY SCHEDULE**

**(APPENDIX-I)**

<b>Design / development, supply, installation, testing, commissioning &amp; maintenance of Automatic Demand Management Scheme for Odisha Power System.</b>					
Sl	DESCRIPTION OF MATERIAL		Quantity	Desired delivery	Destination
1	System Study, Engineering and Design of ADMS at 100 Substations		100 Nos.	6 months from the date of issue of PO	SLDC/ Any store/site of OPTCL
2	Development of ADMS Server monitoring and control software along with Remote Mini RTU software (Web based for server and RTU). Hardware & Software Customization, Testing, verification.		1 JOB	-Do-	-Do-
3	Server with MPLS / LL Router, (2 WAN PORT), 3G Modem with UPS including installation and commissioning		1 Set	-Do-	-Do-

4	Additional Backup server at SLDC with MPLS / LL Router, (2 WAN PORT), 3G Modem with UPS and failover facility including installation and commissioning	1 Set	-Do-	-Do-
5	Feeder Tripping Controller (FTC) with OPGW / MPLS / GPRS modem with 8 Nos. 110 V, 10 A relay including connection. IP55 Panel with 5.7 " touch display, 8 DO 10A /110V SS relay or ( 8 DO10A relay, 4DI, 4AI), RS 485 for smart meter, 3G dual SIM card with One port WAN router for VPNOBB or MPLS lease line.	100 Nos.	-Do-	-Do-
6	Installation & Commissioning including testing of Feeder Tripping Controller (FTC) and gateway devices as per Technical Specification (Section IV) of this tender document.	100 Nos.	-Do-	-Do-



## **PART-I**

### **SECTION -V**

#### **SCHEDULE OF COMPREHENSIVE ANNUAL MAINTENANCE** **CONTRACT OF ADMS FOR ODISHA POWER SYSTEM.**



## SCHEDULE OF COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT OF ADMS FOR ODISHA POWER SYSTEM.

### **1. Comprehensive Annual Maintenance contract :**

Comprehensive AMC contract of the Automatic Demand Management Scheme including control centre and field substation (100 Nos.) end equipment for 5 years after 3 years guarantee period excluding communication link.

### **2. Scope of Comprehensive AMC**

All the material / equipment / services described in the price bid shall be covered under AMC. The supplier / contractor has to perform the following maintenances:

(a) **Preventive Maintenance:** [Half yearly (every six months)]: Successful Bidder has to Check and ascertain the performance of ADMS (Both Software & Hardware) at SLDC and various grid substations to the satisfaction of purchaser in every six months. These inspections are to be carried out in presence of SLDC/OPTCL Engineer and contractor's representative. A report on inspection & testing along with the status of the ADMS is to be jointly signed for reference and record. In case any defects are noticed during Preventive Maintenance, such defects are to be rectified within 15 days of such inspection. The spare materials/equipment required to rectify the defects are to be supplied by the contractor free of cost to OPTCL. In case contractor fails to perform the Preventive maintenance within the scheduled stipulated time, the purchaser shall impose price reduction on the supplier/contractor for the delay as per the Penalty clause 5(b).

(b) **Break down maintenance:** In case any defect is noticed in the ADMS (Both Software & Hardware) at SLDC and various grid substations, the Contractor shall be intimated by the purchaser, and Contractor shall attend the spot within 07 days from the date of intimation (**any means of communication**) positively and shall ascertain the defects and shall rectify the same within 15 days from the date of intimation (Date of issue of Letter) to the Contractor. The spare materials/equipment required to rectify such defects are to be supplied by the contractor free of cost to OPTCL In case Contractor fails to rectify the defects within the scheduled time, the

purchaser shall impose on the supplier/ Contractor price reduction for the delay as per clause indicated below 5(a). The date of intimation to the Contractor regarding the troubles/defects of the item(s) shall be reckoned as the base date for computing the Penalty amount

However failed communication link is to be identified and coordinated with SLDC for restoration. Any changes in hardware & software during AMC should be documented and put up for approval. During the AMC period the response time must be within 7 days against any means of communication made by SLDC. However, the period of resolution for device failure in the field shall be within 15 days from the date of intimation.

**3. TERMS OF PAYMENT:** (For Comprehensive AMC)

The terms of payments under this contract shall be governed as per the following:

- (i) Unconditional acceptance of the order by the bidder.
- (ii) Furnishing of a performance Bank Guarantee as per the proforma enclosed (Annexure-XXI) for 10% of the total Maintenance Contract price (for 05 years) , which will remain valid for two months more than the expiry of the contract period i.e, 62 months from the last date of the guarantee period. Initially, the BG shall remain valid for 18 months and the same to be revalidated from time to time to cover the entire AMC period.
- (iii) Payment will be made equally at the end of every six months, period starting from the date of contract period as per the details below:

(a) Release of payment for the 1<sup>st</sup> installment:- The payment of 1st installments of each year are to be paid to you at the end of 6(six) months. All the ADMS equipments (Both at SLDC end and at Substation end) need to be Checked Properly under Preventive Maintenance (PM) to ascertain the performance to the satisfaction of SLDC/OPTCL in every six months. This inspection is to be carried out in presence of SLDC/OPTCL Engineer and contractor's representative. A report on inspection & testing along with the status of ADMS equipment should be jointly signed and furnished to the verifying authority for verification and further action.

(b) Similarly, the payment of 2nd installments of each year are to be paid to you at the end of 12(Twelve) months, during which the inspection of ADMS equipments to keep the system in a healthy and functional condition, shall be carried out by the contractor, on production of documents as indicated above.

\* The payment for other years of AMC shall be as indicated above.

\* The Goods and Service Tax shall be payable at applicable rate.

\* The statutory deduction of taxes shall be made from bill.

#### **4. PERFORMANCE SECURITY:**

A performance Bank Guarantee as per the proforma (Annexure-XXI) enclosed for 10% of the total Maintenance Contract price (**for 05 years**), which will remain valid for two months more than the expiry of the contract period i.e, 62 months from the last date of the guarantee period. Initially, the BG shall remain valid for 18 months and the same to be re-validated from time to time to cover the entire contract period. The successful bidder has to furnish the Composite Bank Guarantee of required amount in the standard Bank Guarantee format (Annexure-XXI) towards Security, Payment and Performance from any Nationalized/ Scheduled Bank on non-judicial stamp paper worth of Rs. 29.00 (Rupees Twenty Nine) only or as applicable as per prevalent rules.

The B.G. shall be furnished to Senior General Manager (CPC), OPTCL Bhubaneswar-751022 within 15 (fifteen) days from the date of issue of **NOA (Notification of Award)for AMC** and shall remain valid for a period of **18 (Eighteen)** months and the same to be validated from time to time to cover the entire AMC period. Validation of BG shall be made well before expiry of the validity of BG. The said Bank Guarantee should be accompanied by a confirmation letter from the concerned issuing Bank & should have provision for encashment at Bhubaneswar before the B.G. is accepted and all concerned intimated. No interest is payable on the Composite Bank Guarantee.

b. In case of non-fulfillment of contractual obligation, Composite Bank Guarantee shall be en-cashed without intimation to you.

#### **5. PRICE REDUCTION SCHEDULE:**

(a) In the event of failure on your part to comply with the provisions of the contract regarding attending to the **Breakdown** of the ADMS equipments installed at SLDC & various grid substations, price reduction @ 0.5% of the total taxable value (Half yearly AMC value) for each day of delay, or part thereof, for such delay, subject to upper limit of price reduction of 10% of the total taxable value if delay is within 30 days and up to 20% if delay exceeds one month, will be levied.

(b) In the event of failure on your part to comply with the provisions of the contract regarding attending to the Preventive maintenance (PM) of the ADMS equipments installed at SLDC & various grid substations in a particular half of a year, a price reduction @30% of the total AMC taxable value (except GST) for the period shall be imposed for that half year.

**6. CONTRACTOR'S RESPONSIBILITY:**

It will be contractor's responsibility to maintain the entire ADMS equipments at SLDC and various grid substations, as described in the scope of the contract in healthy and functional manner. The repair and replacement work will be completed within 15 days from the registering of the complaints by SLDC/OPTCL Engineers of the concerned Grid substations or MANAGER/ AGM/DGM/GM of the concerned Division or Circles respectively failing which the penalty clause as at clause-5 shall be applied. The replacement of equipment will be done by using materials from the stock to be kept under contractors scope. Any equipment/spare removed from the ADMS and taken for rectification, will be rectified and returned back to SLDC/OPTCL at contractor's own risk and expense, within 15 days from the date of such removal. The date of removal will be reckoned as the date of handing over & taking over report jointly signed by SLDC/OPTCL Engineer of the concerned Grid substations and contractor's representative.

(a) An indemnity bond shall be furnished before receiving materials from SLDC/OPTCL .

(b) In case the Bidder did not return the materials taken from the ADMS then the BG furnished towards the AMC shall be encashed without any intimation to the contractor.

**7. NODAL OFFICER:**

A nodal officer shall be appointed by the purchaser, who will monitor the execution of entire maintenance activities within the scope of this contract. You will furnish all the records, reports, receipts etc., to the Nodal Officer, who will forward the documents, after due verification, for initiation of Half yearly payment activities. The name of the Nodal officer shall be intimated during placement of order to the successful contractor.

**8. CONTRACT AGREEMENT:**

Contractor shall prepare and finalize the Contract Document for signing of the formal Contract Agreement with us, as per the proforma to be provided to you, on non-judicial stamp paper of appropriate value within fifteen days from the date of this order.

**9. DURATION OF CONTRACT:**

This AMC shall be in force for a period of 05(Five) Years, beyond the Guarantee period as stipulated in the Specification.

## **PART - II**

### **PRICE BID**

1. **PRICE:**
  - (i) **Bidders are required to quote their price(s) for goods offered indicating they are 'FIRM'**
  - (ii) **The prices quoted shall be FOR Destination only at the consignee's site/store inclusive of packing, forwarding, Freight , Insurance and GST. In addition, the break-up of FOR Destination price shall be given as per schedule of Prices in Annexure-XVI of Section - III. The Bidders has to certify in the price bid that any implication of lower Tax and Input Tax Credit benefit as per anti-profiteering and other provisions under GST Laws, have been fully passed on to the Purchaser, while quoting the tender prices**
2. **INSURANCE :**

**Insurance of materials/equipments, covered by the Specification shall be done by the Suppliers with their own Insurance Company unless otherwise stated. The responsibility of delivery of the materials/equipments at destination stores/site in good condition rests with the Supplier. Any claim with the Insurance Company or Transport agency arising due to loss or damage in transit has to be settled by the Supplier. The Supplier shall undertake free replacement of equipments/materials damaged or lost which will be reported by the Consignee within 30 days of receipt of the equipments/materials at Destination without awaiting for the settlement of their claims with the carriers and underwriters.**
3. **CERTIFICATE FOR EXEMPTION FROM GOODS AND SERVICES TAX:**

**Offers with exemption from Goods and Services Tax shall be accompanied with authenticated proof of such exemption. Authenticated proof for this clause shall mean Photostat copy of exemption certificates, attested by Gazetted Officers of State or Central Government.**
4. **PROPER FILLING UP OF THE PRICE SCHEDULE:**

**The tenderer should fill up the price schedule (Annexure-XVI of Section-III) properly and in full. The tender may be rejected if the schedule of price is submitted in incomplete form as per Clause-34 (viii) of Section-II of the Specification.**
5. **NATURE OF PRICE INDICATED IN SPECIFICATION SHALL BE FINAL.**

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