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**ODISHA POWER TRANSMISSION CORPORATION LTD  
OFFICE OF THE CHIEF GENERAL MANAGER,  
TELECOMMUNICATION, MULTI-STOREYED BUILDING  
JANPATH, BHUBANESWAR – 751022**

**TENDER SPECIFICATION**

**NO. CGM (Tel)- e-TENDER-Telecom-DTPC-02/2026-27**

**FOR**

**“Supply, Installation and commissioning of 08 Nos of DTPC in 400 KV Meramundali (B)-TTPS (NTPS) Link”.**

(E tendering mode only)

Description	Unit	Quantity
Digital Tele-Protection Coupler compatible for interfacing with SDH MUX(04 set at Meramundali-B site and 04 set at TTPS site)	Set	08
12 Core*2.5 Sq. mm copper cable at Meramundali-B end	Meter	680
12 Core*2.5 Sq. mm copper cable at TTPS (NTPC) end	Meter	400
Equipment Cabinet (2100 x 600 x 600 mm, H x W x D) with 100 mm plinth suitable for DTPC.(01 no at Meramundali-B site and 01 no at TTPS site)	Nos.	02
Installation & Commissioning Charges of DTPC at Meramundali (B) and TTPS site	LS	01

**Request for online tender documents – From dt-22.05.2026 (11.00 AM) to dt-16.06.2026 (12.45 PM)**

**Last date of submission of online tender - dt-16.06.2026 (1.00 PM)**

**Date of opening of Tender - dt-17.06.2026 (11.00 AM)**

**ODISHA POWER TRANSMISSION CORPORATION LTD.**

**REGD. OFFICE: JANPATH, BHUBANESWAR – 751 007,**

**ODISHA**

*e-TENDER NOTICE NO. CGM (Telecom)-02/2026-27*

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD, Chief General Manager [Telecom] invites Tenders from reputed manufacturers in two part bidding system for **Supply, Installation and commissioning of 08 Nos of DTPC in 400 KV Meramundali (B)-TTPS (NTPS) Link**. 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 **22.05.2026 (11.00 AM) to dt-16.06.2026 (12.45 PM)**. Interested Suppliers may visit OPTCL's official web site <http://www.optcl.co.in> and [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) for detail specification.

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

**NOTICE INVITING TENDER****ODISHA POWER TRANSMISSION CORPORATION LTD.,****REGD. OFFICE: JANPATH, Bhubaneswar.**

e-TENDER NOTICE NO- CGM (Telecom)-02/2026-27.

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

Sl. No	Tender Specification No.	Description of equipment/materials	Quantity	Delivery schedule.	Earnest Money Deposit (In Rs.)	Cost of Tender document (in Rs.)	Last date of receipt & opening of tender
1.	CGM (Tel)- e-TENDER- Telecom-DTPC-02/2026-27	Digital Tele-Protection Coupler compatible for interfacing with SDH MUX(04 set at Meramundali-B ste and 04 set at TTPS site)	<b>08 Set</b>	(As per Appendix-II of technical specification)	47936.00	6,000/- + 1080/- (GST) =7080/-	<b>16.06.2026 (1.00 PM) &amp; 17.06.2026 (11.00 AM)</b>
2.		12 Core*2.5 Sq. mm copper cable at Meramundali-B end	<b>680 meter</b>				
3		12 Core*2.5 Sq. mm copper cable at TTPS (NTPC) end	<b>400 meter</b>				
4		Equipment Cabinet (2100 x 600 x 600 mm, H x W x D) with 100 mm plinth suitable for DTPC.(01 no at Meramundali-B site and 01 no at TTPS site)	<b>02 nos</b>				
5		Installation & Commissioning Charges of DTPC at Meramundali (B) and TTPS site	<b>LS</b>				

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

**TENDER COST:**

The bidders who want to submit bid shall have to pay Rs. 7080/- (Rupees Seven Thousand Eighty only) non-refundable including GST @ 18% towards the tender cost, **as per tender notice online through e-payment gateway link provided in e-tender portal (by using Net Banking, Debit Card or Credit Card) prior to last date & time of submission of online tender.** They have to also submit notarized hard copy of GST registration certificate on or before the scheduled date & time of opening of techno-commercial bid.

**TENDER PROCESSING FEE:**

The bidders shall have to submit non-refundable amount of Rs.5657/- (Rupees Five Thousand Six Hundred Fifty Seven) only including GST @ 18% towards the tender processing fee to K.S.E.D.C. Ltd, in e-payment mode. The e-payment of above amount is to be made to enable the bidder to down load the bid proposal sheets & bid document in electronic mode.

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

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

**The copy of tender cost, processing fees are to be submitted along with the e-BG at the office of the undersigned on or before the last date & time of submission of tender.**

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

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

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

**CHIEF GENERAL MANAGER (Telecom) I/c**

**ODISHA POWER TRANSMISSION CORPORATION LTD.**

**OFFICE OF THE CHIEF GENERAL MANAGER (TELECOM)**

**TELEPHONE NO.:0674 – 2542403**

**BHOI NAGAR, JANAPATH, BHUBANESWAR – 751022**

**TENDER SPECIFICATION NO. CGM (Tel)- e-TENDER-Telecom-DTPC-02/2026-27**

**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**

**PART – II PRICE BID.**

**PART – I**

**SECTION – I**

**INSTRUCTIONS TO TENDERERS**

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**COMMERCIAL SPECIFICATION**  
**SECTION-I**  
**INSTRUCTIONS TO TENDERER**

**1. 1. Submission of Bids: -**

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

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

1. For all the users it is mandatory to procure the Digital Signatures.
2. Contractors / Vendors / Bidders / Suppliers are requested to follow the below steps for Registration:
  - a. Click “Register”, fill the online registration form.
  - b. Pay the amount of Rs. 2360/- through e-payment ~~DD~~ in Favour of KSEDCL Payable at Bangalore.
  - c. Send the acknowledgment copy for verification.
  - d. As soon as the verification is being done the e-tender user id will be enabled.
3. After viewing Tender Notification, if bidder intends to participate in tender, he has to use his e-tendering User Id and Password which has been received after registration and acquisition of DSCs.
4. If any Bidder wants to participate in the tender he will have to follow the instructions given below:
  - a. Insert the PKI (which consist of your Digital Signature Certificate) in your System. (Note: Make sure that necessary software of PKI be installed in your system).
  - b. Click / Double Click to open the Microsoft Internet Explorer (This icon will be located on the Desktop of the computer).
  - c. Go to Start > Programs > Internet Explorer.
  - d. Type **www.tenderwizard.com/OPTCL** in the address bar, to access the Login Screen.
  - e. Enter e-tender User Id and Password, click on “Go”.
  - f. Click on “Click here to login” for selecting the Digital Signature Certificate.
  - g. Select the Certificate and enter DSC Password.
  - h. Re-enter the e-Procurement User Id Password
5. To make a request for Tender Document Bidders will have to follow below mentioned steps.
  - Click “Un Applied” to view / apply for new tenders.
  - Click on Request icon for online request.

6. After making the request Bidders will receive the Tender Documents which can be checked and downloaded by following the below steps:
  - Click to view the tender documents which are received by the user.
  - Tender document screen appears.
  - Click “Click here to download” to download the documents.
7. After completing all the formalities Bidders will have to submit the tender and they must take care of following instructions.
  - Prior to submission, verify whether all the required documents have been attached and uploaded to the particular tender or not.
  - Note down / take a print of bid control number once it displayed on the screen
8. Tender Opening event can be viewed online.
9. Competitors bid sheets are available in the website for all.
10. **For any e-tendering assistant contact help desk number mentioned below.**  
Bangalore – 080- 40482000.

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

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

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

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

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

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

Schedule of prices as per Annexure-V

## **3. Tenders shall be in two parts.**

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

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

- [a] The Part-I of tender 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 [Telecom] on the specified date and time in presence of the Tenderers or their authorized representatives [limited to one person only] in case of each bidder who may desire to be present, at the time of opening the bids.

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

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

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

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

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

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

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

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

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

**11. Earnest money deposit:**

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

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

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

- ~~(a) **Cash:** Payable to drawing & disbursing Officer, OPTCL (Hd.qrs. Office), Bhubaneswar - 751022~~
- ~~(b) **Bank Draft:** To be drawn in favour of Drawing & Disbursing Officer, OPTCL [H.Qrs.Office], Bhubaneswar 751 022.~~
- (c) The e-BG is issued by any Scheduled Commercial Bank listed on NeSL platform and is delivered electronically to the OPTCL's official NeSL account : Name of the Organization/ Beneficiary : Odisha Power Transmission Corporation Limited, NeSL ID: AAACO7873L.

**NOTE:**

- (i) The validity of the EMD in the form of E-BG 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-19 of Section-II.
- (vii) Suits, if any, arising out of this clause shall be filed in a Court of law to which the jurisdiction of High Court of ODISHA extends.
- (vii) EMD will be forfeited if the tenderer fails to accept the letter of intent and/or purchase order issued in his favour or to execute the order, placed on them.
- (viii)Tenders not accompanied by Earnest Money shall be disqualified.

**12. Incorporation of Mandatory Electronic E-BG(e-BG) through NeSL Platform in Tender Specification.**

- All Bank Guarantees required under this Tender, namely (a) Bid Security (Earnest money Deposit) (b) Performance Security (c) Security against Advance Payment shall be submitted only in the form of Electronic E-BG(e-BG) issued through National E-Governance Services Limited (NeSL) platform.
- Physical/Paper Bank Guarantees will not be accepted. Any Bid submitted with Physical BG shall be treated as non-responsive and rejected.
- The Bidder shall ensure that the e-BG is issued by any Scheduled Commercial Bank listed on NeSL platform and is delivered electronically to the OPTCL's official NeSL account : Name of the Organization/ Beneficiary : Odisha Power Transmission Corporation Limited, NeSL ID: AAACO7873L
- Procedure for submission:
  - ☐ Bidder / Contractor shall request the issuing bank to create and deliver the e-BG directly to the Employer's (OPTCL) NeSL ID
  - ☐ Upload the e-BG Acknowledgement/Unique Reference Number (URN) against Bid Security / EMD in the Technical bid.
  - ☐ The Employer (OPTCL) will verify the e-BG instantly on NeSL portal.
    - Format, Amount and validity of e-BGs shall be strictly as per Tender specification.
    - No charges towards stamping, verification or amendment of e-BG shall be borne by the Employer. All such charges shall be borne by the Bidder/Contractor.
    - In case of amendment/extension, the Contractor shall submit the amended e-BG through NeSL platform only.
    - A copy of the e-BG against Bid Security / EMD must be uploaded online with the bid documents. A copy of e-BG against Bid Security / EMD with Unique Reference Number (URN) shall also be submitted to the office of Chief General Manager, Telecom, OPTCL, Bhubaneswar- on or before scheduled date & time of opening of Tender
- Information of Beneficiary required for issuance of Electronic E-BG(e-BG)
  - i. Name of Beneficiary's Representative – UMESH KUMAR GUPTA
  - ii. Beneficiary Email ID – cgm.tel@optcl.co.in
  - iii. Beneficiary Mobile No. - 9438907259
  - iv. Beneficiary PAN / UIN – AAACO7873L
  - v. Beneficiary Date of Incorporation/Birth – 29-MAR-2004
  - vi. Beneficiary Legal Constitution – ODISHA STATE PUBLIC SECTOR UNDERTAKING
  - vii. Platform – NeSL

**13. 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.

**14. 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.

**15. 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.

**16. 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 (Telecom) OPTCL. This, however, does not entitle the Tenderer to ask for time beyond due date, fixed for receipt of tender.

**17. Documents to Accompany Bids.**

Tenderers are required to submit tenders in the following manner:

**The Tender shall Contain the following documents.**

- [i] Declaration Form. [As per Annexure-I]
- [ii] Earnest Money. [As per Annexure-VIII]
- [iii] Technical specification and Guaranteed Technical Particulars conforming to the Purchaser's Specification along with drawings, literatures and all other required Annexures, duly filled in.
- [iv] Photostat copies of type test certificates of materials/equipments offered as stipulated in the Technical Specification.
- [v] Abstract of Terms & conditions in prescribed proforma as per Annexure-II.
- [vi] General Terms & Conditions of supply offer as per Section-II of the Specification.
- [vii] List of orders executed for similar materials/equipment's during preceding 2 (two) years indicating the customer's name, Purchase Order No. & Date, date of supply and date of commissioning etc.
- [viii] Data on past experience as per Clause-7 of Section-II of the Specification.
- [ix] Sales tax clearance certificate for the previous year and GST Compliance Rating. The GST Identification Number (GSTIN) under GST Laws and permanent account number [PAN] of the firm under Income tax Act are required.
- [x] Audited Balance sheet & profit loss accounts of the bidder, for past (3) three years.
- [xi] Schedule of quantity and delivery in the prescribed Proforma vide Annexure, as appended.
- [xii] List of Orders in hand to be executed.
- [xiii] Deviation schedule.
- [xiv] 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.

[xv] Notarized hard copy and soft copy of valid registration as local MSE (In the state of Odisha) (if any).

**18. 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

**19. Conditional Offer:**

Conditional offer shall not be accepted.

**20. 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 bids separately.
- (vi) It should be distinctly understood that the price bid shall contain only details/documents relating to price, as outlined in clause-17 mentioned herein above. Inclusion of any of the documents/information etc. shall render the bid liable for rejection.
- (vii) The tenderer must submit the EMD amount, cost of tender document (Form Fee) and Tender processing fee in a sealed cover envelope super-scribing the tender specification number, Tender Notice No & Date of tender clearly on the cover envelope. The said envelope is to be submitted in the office of the purchaser on or before the last date and time of submission of Bids.

**21.0 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 (1st/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 (1st/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.

**22.0 (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.

**22.0 (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.

**SECTION – II.**

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

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PART-I

SECTION-II

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

1. **Scope of the contract:**

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

2.0 **Definition of terms:**

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

2.1 "The Purchaser" shall mean the Chief General Manager [Telecom] 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) at the point of destination" shall mean the price quoted by the bidder for equipment and material at the consignee's store/site. The cost is inclusive of packing, forwarding, freight, insurance and all expenses and taxes & duties at the end of the supplier excluding Goods & Service Tax. The Goods & Service Tax shall be shown in a separate

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

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

2.13 Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian Contract Act, failing that in the 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 first-hand knowledge in assembly of the equipment, its erection, commissioning and for its proper operation & maintenance in service, wherein it is thought necessary by the purchaser.

6. **Rejection of Materials.**

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

- [a] At its option replace or rectify such defective equipment /materials and recover the extra costs so involved from the supplier plus fifteen percent and/or.
- [b] Terminate the contract for balance work/supplies, with enforcement of 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 two years with the name(s) of the Organizations to whom supplies were made wherein, at least one (1) certificate shall be from a state/central P.S.U.
- [iv] Details as to where supplied and installed etc.
- [v] Testing facilities at manufacturer's works.
- [vi] If the manufacturer is having collaboration with another firm [s], details regarding the same.
- [vii] A list of purchase orders of identical material/equipment offered as per technical specification executed during the last two years along with users certificate. User's certificate shall be legible and must indicate, user's name, address, designation, place of use, and satisfactory performance of the equipment/materials for at least two years from the date of commissioning. Wherein at least one (1) certificate shall be from a State/Central or P.S.U. Bids will not be considered if the past manufacturing experience is found to be unsatisfactory or is of less than 2 (two) years on the date of opening of the bid and bids not accompanying user's certificate will be rejected..

8. **Language and measures:**

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

9. **Deviation from specification:**

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

A list of deviations shall be enclosed with the tender. Unless deviations in scope, technical and commercial stipulations are specifically mentioned in the list of deviations, it shall be presumed that the tenderer has accepted all the conditions, stipulated in the tender specification, not- withstanding any exemptions mentioned therein.

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

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

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

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

12. **Patent rights Etc.**

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

13. **Delivery:-**

[a] Time being the essence of the contract; the equipment shall be supplied within the delivery period, specified in the contract i.e three months from the issuance of Purchase Order/LOI.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-II (Quantity & Delivery Schedule) of Section-IV (Technical Specification).

14. **Despatch instructions.**

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

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

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

The Purchaser shall have no responsibility on this account.

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

- [i] The Purchaser may, upon written notice of default to the supplier, terminate the contract in circumstances detailed hereunder.
- [a] If in the judgement of the Purchaser, the supplier fails to make delivery of equipment/material within the time specified in the contract or within the period for which if extension has been granted by the Purchaser in writing in response to written request of the supplier.
- [b] If in the judgement of the Purchaser, the supplier fails to comply with any of the provisions of this contract.
- [ii] In the event, Purchaser terminates the contract in whole or in part as provided in Clause-15 (I) of this section, the Purchaser reserves the right to purchase upon such terms and in such a manner as he may deem appropriate in relation to the equipment/material similar to that terminated and the supplier will be liable to the Purchaser for any additional costs for such similar equipment/material and/or for penalty for delay as defined in clause-22 of this section until such reasonable time as may be required for the final supply of equipment.
- [iii] In the event the Purchaser does not terminate the contract as provided in clause 15(I) of this Section, supplier shall be liable to the Purchaser for penalty for delay as set out in Clause-22 of this section until the equipment is accepted. This shall be based only on written request of the supplier and written willingness of the Purchaser.

**16 Force Majeure:**

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

**17. Extension of time:-**

If the delivery of equipment/material is delayed due to reasons beyond the control of the supplier, the supplier shall without delay give notice to the purchaser in writing of his claim

for an extension of time. The purchaser on receipt of such notice may or may not agree to extend the contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract.

18. **Guarantee period: - ( As per clause 35 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 at least 18 months from the date of supply or 12 [Twelve] months from the date of commissioning whichever is earlier. The above guarantee certificate shall be furnished in triplicate to the purchaser for his approval. Any defect noticed during this period should be rectified by the supplier free of cost to the purchaser provided such defects are due to faulty design, bad workmanship or bad materials used, within one month upon written notice from the purchaser.

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

[ii] The supplier's liability shall be to the extent of repair/replacement of such defective equipment/material either arising from faulty design or defective equipment/materials and /or bad workmanship. Such defective equipment /materials shall be handed over to the supplier for repair or replacement by a new one, unless otherwise repairable at site. The supplier shall complete the repair /replacement work within the reasonable time frame [as mentioned in **clause 22(ii) of GTCC i.e. Price Reduction Schedule**] intimated by OPTCL.

If it becomes necessary for the supplier to replace or repair any defective equipment/materials, the provision of this clause shall apply for the same until the expiry of guarantee period.

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

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

A Composite e-E-BG as per the Proforma enclosed at Annexure-VII of the specification for 10% [ten percent] of the Total Landing cost (Taxable Value plus GST thereon) of the purchase order (In case of successful bidder who is a local Micro and small Enterprise(MSEs) (In the state of Odisha) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC 5% (five percent) shall be furnished from any nationalized/scheduled bank having a place of business at Bhubaneswar, to the office of Chief General Manager [Telecom], OPTCL

within 15 days from the date of issue of the purchase order. The e-BG shall be executed for a period of 2 months more than the Guarantee Period, for scrutiny and acceptance, failing which the supply order will be liable for cancellation without any further written notices. The e-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 e-Bank Guarantee.
- [iii] In case of non-fulfillment of contractual obligation, as required in the detailed purchase order/Specification, the composite e-E-BG shall be forfeited.

**20. Import License**

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

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

i) 90% taxable value of each consignment 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, subject to furnishing and approval of

a. Contract cum Performance e-BG at the rate of 10% (Ten percent) of Taxable Value plus GST thereon [In case successful bidder is a local Micro and small Enterprise (MSEs), based in Odisha & registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC, **5% (five percent) in place of 10%** (ten percent) will be applicable].

b. Guarantee certificate.

c. Test certificate by the Purchaser.

ii) TDS under Income Tax Act & GST Laws for intra state transactions shall be deducted, if 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 E-BG of appropriate amount to OPTCL as indicated in (i) above, within 30 days from the date of issue of the purchase order.

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

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

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

23. **Insurance**

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

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

25. **Sales Tax clearance certificate, 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 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 discretion of the purchaser)
  - b) Good and Services Tax
  - c) Other levies, if any.
  - d) Test charges, if any.
  - e) Supervision of erection, testing and commissioning charges, if any.
  - f) Any other items, as deemed proper for evaluation by the purchaser.
  - g) 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.
  - h) 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.

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

In comparing bids and in making awards, the Purchaser will consider other factors such as compliance with Specification, minimum qualification criteria as per clause-30, outright rejection of tenders clause-34 of this tender, relative quality, adaptability of Supplies or services, experience, financial soundness, record of integrity in dealings, performance of materials/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.

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

**2) e-Reverse Auction process shall be resorted to in the tender as follows.**

<b>STRATEGY FOR E-REVERSE AUCTION</b>	
1	Bidders are required to go through the guide lines given below and submit their acceptance to the same.
2	E-Reverse Auction (RA) will be conducted in e-tender portal of OPTCL on specified date and time, while bidders shall quote from their own offices/places of their choice. Internet connectivity shall be ensured by the respective agencies/bidders themselves.
3	Demonstration/ training (if not trained earlier) of bidder's nominated person(s), shall be done by KEONICS to explain all the rules related to e-Reverse Auction/ Business Rule document to be adopted.
4	The strategy to be used for reverse auction shall be "DYNAMIC TEMPLATE BIDDING"
<b>Procedure for electronic Reverse Auctioning (e-RA):</b>	
5	<p>a. The e-RA shall be conducted on <a href="http://www.tenderwizard.com/OPTCL">www.tenderwizard.com/OPTCL</a> only.</p> <p>b. Bidder has to submit letter towards agreement to the Process related Terms &amp; Conditions for e-Reverse Auction, as per (Reverse Auction Process Compliance Form at Annexure-IA). In non-receipt of the same, vendors will not be allowed to participate in e-RA.</p> <p>c. e-RA shall be carried out after opening of Price bids and completion of Price bid evaluation, which will be intimated only to the techno-commercially qualified bidders by OPTCL as per procedure given below.</p> <p>d. OPTCL reserves the right to conduct e-RA and it is obligatory on part of bidder(s) invited to participate in e-RA process once they have responded to the techno-commercial bid.</p>
6	<p>Prior intimation/ Notice for RA invitation will be given to techno-commercially qualified bidders regarding the date &amp; time of opening of the e-RA.</p> <p>The start bid price (SBP) for e-Reverse Auction of each bidder under a particular package shall be the L1 evaluated price for the subject package including Taxes &amp; Duties for the total scope for subject Package. Taking the above discovered L1 price as the upper limit e-RA will be conducted to determine the lowest possible price.</p>

	<p>Reverse Auction will be conducted amongst first 50% of the technically qualified bidders arranged in order of prices from lowest to highest, as L1, L2,L3-----Ln, and L1 price will be discovered. Minimum of 3 bidders shall be eligible for e RA. (E.g. If 4 bidders are financially evaluated then the L1, L2 and L3 bidders shall be eligible for e-RA). Number of bidders eligible for participating in RA would be rounded off to next higher integer value if number of technically qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst L1 to L4).</p> <p>However, in case only two bidders are found to be responsive, e-RA would be carried out with both the parties without any elimination. However, OPTCL reserves the right to invite the evaluated L1 bidder for negotiation without conducting the e-RA.</p> <p>In case of price submitted by any bidder is found to be abnormal, OPTCL reserves the right to reject the bid of the bidder(s).</p> <p>Rank of bidders would be displayed as per the total cost to OPTCL, i.e. including Taxes and Duties payable by OPTCL as per the provisions of the bidding document &amp; after e-RA process is over.</p>
7	<p>Names of bidders/ vendors shall not be disclosed during the e-RA process. Names of bidders/ vendors shall be anonymously masked in the e-RA process.</p> <p>(i) In case of RA, start/ reference price and step value of decrement shall be indicated to the bidders at the start of the auction. Any participating bidder can bid one or multiple step decrement lower than the prevailing lowest bid at that time. The Bidder shall be able to view Bid Start Price, Bid Decrement Value, Prevailing Lowest Bid value, last Bid Placed by him and time left for bidding.</p> <p>(ii) The step value of decrement in a package to be offered by bidder (the minimum amount of reduction in the total bid price including all taxes &amp; duties during auction), shall be kept at 0.15% of L1 bidder's final evaluated price (or) at approved amount as decided by OPTCL.</p> <p>(iii) Bidders can only quote any value lower than their previous quoted price. However, at no stage, increase in Price will be permissible.</p> <p>(iv) At any point during Reverse Auction, bidding Price field (Total price) <b>shall remain enabled for the bidders</b>. The total reverse auction period shall be unlimited and the initial auction period (1<sup>st</sup> slot) will be of thirty (30) minutes with provision of auto extension by (10) ten minutes from the schedule/ extended closing time. If any fresh lower bid is received in last ten minutes of auction period or extended auction period, the reverse auction process shall get extended automatically for another 10(ten) minutes. In case, there is no Bid received during schedule/extended slot, the Auction shall get closed automatically without further extension.</p> <p>(v) However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the period of e-reverse auction to avoid complication related with internet connectivity, network problem, system crash down, power failure etc.</p>
8	<p>After conclusion of e-Reverse Auction i.e. (Closing Price in Reverse Auction will be taken as offered price by the L1 bidder), decrease in price of individual head of the template shall be considered proportionately on all individual line items of the respective head of the price schedule of the successful L1 bidder .</p> <p>Any bid received at the tender wizard server end subsequent to closure of the e-RA shall be summarily rejected and shall not be considered as a valid bid under whatsoever circumstances. For this purpose, tender wizard server log shall prevail.</p> <p>The bidder shall not involve himself or any of his representatives in price manipulation of any</p>

	<p>kind directly or indirectly by communicating with other bidders.</p> <p>During Reverse Auction, If no bid is received within the specified time, OPTCL, at its discretion, may decide to close the reverse auction process/ proceed with conventional mode of tendering [ Evaluation of Part-II (price bid) submitted by bidders earlier].</p>
9	<p>Consequent upon completion of e-Reverse Auction, OPTCL's decision on award of contract shall be final and binding on the bidders.</p> <p>OPTCL shall be at liberty to call the L1 bidder for further process/ negotiation and also at liberty to cancel the e-reverse auction process/ re-tender at any time, without assigning any reason thereof. OPTCL can decide to reschedule or cancel any reverse auction: the bidders shall be informed accordingly.</p> <p>OPTCL/ Service Provider shall not have any liability to bidders for any interruption or delay in access to the e-Tender site/ Reverse Auction link irrespective of the cause.</p>

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

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

- i) The bidder should have manufacture or supply experience of above rated or higher capacity material/ equipment for a minimum period of 3 (three) years as on the date of opening of the tender
- ii) At least 50% of the tendered quantity of above rated or higher capacity equipment should have been supplied within the above-stipulated period. (Note: \*within the above stipulated period:- i.e. within 03(three) years from the date of opening of this tender).
- iii) The above rated or higher capacity equipment should have at least 3 (three) years successful performance from the date of commissioning. At least one of the performance certificates shall be submitted from Govt. of India/State Govt.(s) or their undertakings.
- iv) The bidder should have conducted type tests on the tendered equipment in Government approved laboratory within ten years from the date of opening of the tender.

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

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

**Registration certificate of DPIIT:**

As per Office Memorandum No.F.No.6/18/2019-PPD, Ministry of Finance, Dept. of Expenditure Public Procurement Division, New Delhi and Office Memorandum No. FIN-CON-MISC-0007/2019/27945/F Dated.16.10.2020 of Finance Department, Govt. of Odisha *“Any bidder from a country which **shares a land border with India** will be eligible to bid in any procurement whether goods, services (Including consultancy services and non-consultancy services) or works (including turnkey*

projects) **only if the bidder is registered with the Competent Authority, DPIIT** (i.e. Department for Promotion of Industry and Internal Trade)". Pursuant to decision of Govt. of India prescribing imposition of restriction on public procurement from bidders of certain countries on ground of defence of India or matters directly or indirectly related thereto, the Office Memorandum No. 4939/F, dated: 13.02.2012 of Finance Department, Govt of Odisha has been amended vide Office Memorandum No 27945 Dtd 16.10.2020 by inserting sub-para-3 (vii) to para-3 thereof. Prescribing the restriction on procurement made by the State Govt., State Public Sector Undertaking including local bodies etc. and directing no procurement shall be made in violation of such restrictions, it is hereby clarified that the provisions of the same shall be applicable for the tenders for works/procurement/Service in OPTCL in both ongoing (Techno-Commercial bid not opened) and future tenders.

The tender documents of OPTCL shall contain following additional clauses and certificate formats.

**A. To be incorporated as qualifying requirement of bidder /certificates in case of tenders for Works (including Turn-key works)**

I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as per requirement of Govt. of India.

II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any company, including any member of a consortium or joint venture (that is a company ),

III. "Bidder from a country which shares a land border with India" for the purpose of this Order means :-

- a. An entity incorporated, established or registered as company in such a country ; or
- b. A subsidiary company of an entity incorporated, established or registered in such a country ' or
- c. An entity substantially controlled through entities incorporated , established or registered in such a country ; or
- d. An entity whose beneficial owner is situated in such a country ; or
- e. An Indian (or other) agent of such an entity ; or
- f. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

IV. The beneficial owner for the purpose of (iii)(d) above will be as under :

1. In case of a company the beneficial owner is the natural person(s), who, whether acting along or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

**Explanation-**

- a. "Controlling ownership interest" means ownership of or entitlement to

more than twenty-five per cent of shares or capital or profits or the company.

b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreement;

2. Where no natural person is identified under (1) above, the beneficial owner is the relevant natural person who hold the position of senior managing official ;

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

**Certificate ( to be furnished in bidder company's letter head)**

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable evidence of valid registration by the Competent Authority shall be attached.

**B. To be incorporated as qualifying requirement of bidder /certificates in case of tenders for procurement of goods/services(including consultancy and non-consultancy)**

I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as per requirement of Govt. of India

II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated herein before, including any agency branch or office controlled by such person, participating in a procurement process.

III. "Bidder from a country which shares a land border with India" for the purpose of this Order means :-

a. An entity incorporated, established or registered in such a country ; or

b. A subsidiary of an entity incorporated, established or registered in such a country ' or

c. An entity substantially controlled through entities incorporated , established or registered in such a country ; or

- d. An entity whose beneficial owner is situated in such a country ; or
- e. An Indian (or other) agent of such an entity ; or
- f. A natural person who is a citizen of such a country ; or
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

IV. The beneficial owner for the purpose of (iii)(d) above will be as under :

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting along or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

**Explanation-**

- a. “Controlling ownership interest” means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits or the company.
  - b. “Control” shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreement;
2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting along or together, or through one or more juridical person, has ownership or entitlement to more than fifteen per cent of capital or profits of the partnership ;
  3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting along or together, or through one or more juridical person, his ownership of or entitlement to more than fifteen per cent of the property or capital or profits of such association or body of individuals ;
  4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who hold the position of senior managing official ;
  5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen per cent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

**Certificate ( to be furnished in bidder’s letter head)**

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder

fulfils all requirements in this regard and is eligible to be considered.  
[Where applicable, evident of valid registration by the Competent Authority shall be attached.]

**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:** Chief General Manager (Telecom) OPTCL

Bhubaneswar-751022 (Odisha)

Telephone No. 0674 - 2542403

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

**34. Outright Rejection of Tenders**

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

- [i] The tenderer shall submit the bid in electronic mode only and shall submit the tender cost on or before the date and time of submission of technical bid. In case of local Micro and small Enterprises(MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC participating in the tender they have to submit notarized hard copy of valid registration as local MSE as above on or before the date and time of submission of technical bid.
- [ii] The tenderer shall submit the bid in electronic mode only
- [iii] The Tender shall not be submitted telegraphically.
- [iv] The prescribed EMD shall be submitted on or before the date and time of submission 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 two parts as specified.
- [vii] The Tenders shall be accompanied by a list of major supplies effected prior to the date of opening of tender. Data of at least 3 (three) years shall be furnished.
- [viii] The tenderer shall upload the scanned copy of latest type test certificates (for the tests, carried out on the tendered 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).

- [ix] The schedule of prices should be filled up fully to indicate the break-up of the prices including taxes and duties. Incomplete submission of this schedule will make the tender liable for rejection. Vide Clause-4(ii) of Part-II.
- [x] The Tenderer should quote 'FIRM' price only and the price should be kept valid for a minimum period of 180 days from the date of opening of the tender.
- (xi) The tenderer shall upload the scanned copy legibly written user's certificate to prove the satisfactory operation of the offered equipment/materials for a minimum period of 3 (three) years from the date of commissioning/use as per the tender specification. User's certificate shall include the detailed address of the user with Equipment/Material, Name and type as per this specification, number of years of satisfactory use/operation & date of issue of this user's certificate with official seal written in English only & clearly visible must be furnished. At least one of the user's certificates shall be from state or Central Govt. or their Undertakings.
- (xii) Guaranteed Technical particulars & Abstract of terms and Conditions should be filled in completely.
- (xiii) (a) Detailed information on any litigation or arbitration arising out of contract completed or under execution by it over the last five years. A consistent history of litigation by or against the bidder may result in rejection of bid.
- (b) The bidder should not have any pending litigation or arbitration with OPTCL with regard to any project or related activity. The bidder should certify/declare the same in unequivocal terms by way of an affidavit duly sworn before a magistrate. Bid furnished by the bidder shall not be eligible for consideration if it is not accompanied by the affidavit. Further, the bid/ LOA/ LOI shall liable for outright rejection/ cancellation at any stage if any information contrary to the affidavit/ declaration is detected.

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 "SLDC DEVELOPMENT FUND "



**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	ANNEXURE-II
3	Schedule of Quantity and Delivery	ANNEXURE-III
4	Abstract of price component	ANNEXURE-IV
5	Schedule of prices	ANNEXURE-V
6	E-BG form for earnest money deposit	ANNEXURE-VI
7	Composite E-BG 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
15	E-Reverse Auction Compliance Form	ANNEXURE-I (A)
16	DPIIT Certificate	ANNEXURE-XIV
17	Manufacture's Authorization Letter	ANNEXURE-XV

LIST of Documents

The following documents are to be attached in the below name

- 1.PAN
- 2.GSTIN
- 3.Income tax return
- 4.Audited B/s & Profit loss account
5. Certificate of incorporation
6. E payment proof of tender cost



**ANNEXURE-II**

**ABSTRACT OF GENERAL TERMS AND CONDITIONS OF CONTRACT [COMMERCIAL]**

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

1	Whether the material/equipment offered conforms to the OPTCL'S specification (If not, specify the deviations in Annexure).	Yes/No
2.a.i	Cost of Tender Document:	Submitted/N ot submitted
2.a.ii	OPTCL Money Receipt No. & Date / D.D No & Date.	
2.b.i	Earnest money furnished.	Submitted/N ot submitted
2.b.ii	E-BG No. & Date / D.D No. & Date.	
2.c.i	Tender Processing Fee:	Submitted/N ot submitted
2.c.ii	D.D No. & Date.	
3	Manufacturer's supply experience including user's certificate uploaded or not. [As per clause No.7 of Section-II.]	Yes/No
4.a.i	Commercial Deviations to the specification if any	Yes/No
4.a.ii	If Yes, [list uploaded or not, As per clause-9 of the Section-II	Yes/No
4.b.i	Technical Deviations to the specification if any	Yes/No
4.b.ii	If Yes, list uploaded or not, As per clause-9 of the Section-II	Yes/No
5	Delivery <u>(Period in months from the date of issue of PO)</u>	
6	Guarantee: - Whether agreeable to OPTCL's terms[As per clause-18 of Section-II].	Yes/No
7	Whether agreeable to furnish Composite B.G. in case his tender be successful [As per clause-19 of Section-II]	Yes/No
8	Terms of payment:- Whether agreeable to OPTCL's terms or not [As per clause-21 of Section-II]	Yes/No
9	Nature of price:- FIRM	Yes/No
10	Price Reduction: - Whether agreeable to OPTCL's terms or not (As per clause- 22 of Section-II)	Yes/No
11	Whether STCC/ P&L A/C, Balance Sheet for the required period are uploaded as per clause-25 of Section-II	Yes/No
12	Validity: - Whether agreeable to OPTCL's terms or not[As per clause-28 of Section-II]	Yes/No
13	Whether recent type test certificates from any Government approved laboratory is uploaded or not. [As per clause-30[viii] of section-II]	Yes/No
14	Whether guaranteed technical particulars are uploaded or not	Yes/No
15	Whether dimensional design/drawings uploaded or not	Yes/No
16	Whether materials are ISI/ISO marked.	Yes/No
17	Manufacturer's name and its trademark	
18	Whether registered under GST Laws.	Yes/No
19	Whether declaration form, duly filled in, uploaded or not	Yes/No

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

SL No	Description of materials	Quantity required	Desired Delivery	Destination	Remarks.
1	2	3	4	5	6
(i)	Digital Tele-Protection Coupler compatible for interfacing with SDH MUX(04 set at Meramundali-B ste and 04 set at TTPS site)	08 set	3 months from the date of LOA	Meramundali(B) & TTPS(NTPC)	
(ii)	12 Core*2.5 Sq. mm copper cable at Meramundali-B end	680 Meter			
(iii)	12 Core*2.5 Sq. mm copper cable at TTPS (NTPC) end	400 Meter			
(iv)	Equipment Cabinet (2100 x 600 x 600 mm, H x W x D) with 100 mm plinth suitable for DTPC.(01 no at Meramundali-B site and 01 no at TTPS site)	02 Nos			
(v)	Installation & Commissioning of DTPC at Meramundali (B) and TTPS site	LS			

Signature of Tenderer  
with seal of Company

ANNEXURE-IV

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

<b>Sl.No.</b>	<b>Description</b>	<b>To be filled by the bidder.</b>
1	Price basis	F.O.R. Purchaser's destination Stores/site.( Taxable value including packing forwarding, Freight, Insurance, unloading)
2	HSN Code of the Item	
3	GST Identification Number (GSTIN) of the firm	
4	Whether Intra-state supply(i.e. from inside Odisha) or Inter-state supply( i.e from outside Odisha). select from dropdown list	
5	Rate of CGST	
6	Rate of OGST.	
7	Rate of IGST.	
8	Rate of Goods and Services Tax on supervision of erection testing and commissioning	
9	Nature of price.	
10	We hereby undertake and declare that implication of lower Tax and Input Tax Credit benefit as per anti-profiteering (under Section 171 of CGST Act) and other provisions under GST Laws have been fully passed on to the purchaser while quoting the price.	Agreed
11	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). (Indicated- Yes/No)	

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

Place:  
Date:

Signature of the Bidder  
with seal of the company.

**ANNEXURE-V**

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

Item No.	Description	Qty (Unit)	Unit Taxable Value at destination store	Unit GST	Unit landing cost including all taxes and duties.	Total Landing cost including all taxes and duties.
1.	2.	3.	4.	5.	6=(4+5)	7=(6*3)

Signature of Tenderer

With Name, Designation and seal

NB: -

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.

**ANNEXURE-VI**

**PROFORMA FOR E-BGFORM 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 the Issuing Bank.)~~

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

**E-BG No.** .....

**Date:** .....

**E- 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 Work Order (WO) Contract No..... Dated..... for the purpose of ..... work (herein after called "the Agreement") to M/s. / Sri. .... , Address..... (herein after called the "Contractor") for .....<project Name> under the above WO and whereas OPTCL has agreed (1) to exempt demand of security deposit under the terms and conditions of the WO (2) to release payment of the cost of the Contract Price to the Contractor on furnishing by the Contractor to OPTCL a Contract Performance E-BG(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 WO/Contract No. \_\_\_\_\_ dated \_\_\_\_\_ for the due fulfillment by the said Contractor of the terms and conditions contained in the said agreement, on production of a E-BGfor Rs.\_\_\_\_\_ (Rupees\_\_\_\_\_ ) only, we the bank \_\_\_\_\_ [Indicate bank Name , Address & Code ] (hereinafter referred to as "the Bank") at the request of M/s. / Sri. \_\_\_\_\_ 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 notwithstanding 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 e-BG shall not exceed Rs. ----- (Rupees in words-----) only.
- b) This E-BG 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 E-BG is issued in ~~paper~~ e- 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: .....

**The E-BG 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----

Note:

- 1. Bidder shall furnish single CPBG for the contract for this project.**
- 2. Strikeout the portion which are not required.**

## ANNEXURE-VII

### PROFORMA FOR COMPOSITE E-BGFOR SECURITY DEPOSIT PAYMENT AND PERFORMANCE

This Guarantee Bond is executed this \_\_\_\_\_ day of \_\_\_\_\_ 20-- by  
us the \_\_\_\_\_ Bank at  
\_\_\_\_\_ P.O. \_\_\_\_\_ P.S. \_\_\_\_\_  
\_\_\_\_\_ District \_\_\_\_\_ State \_\_\_\_\_

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

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

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

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

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

3. We the \_\_\_\_\_ Bank also undertake to pay to the OPTCL any money so demanded notwithstanding any dispute or disputes raised by the supplier [s] in any suit or

proceeding instituted/pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

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

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

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

5. We,( \_\_\_\_\_ Bank) further agree that the OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Supplier [s] and we shall not be relieved from our liability by reason of any such variations or extension being granted to the said supplier [s] or for any forbearance, act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Supplier [s] or by any such matter or thing whatsoever which under the law relating to sureties would but these provisions have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the name, style and constitution of the Bank and supplier [s].
7. We, [ \_\_\_\_\_ Bank] lastly undertake not to revoke this guarantee during its currency except with the previous consent of the OPTCL in writing.
8. We the \_\_\_\_\_ Bank further agree that this guarantee shall also be invokable at our place of business at ----- Branch of Bhubaneswar (indicate the name of the branch)in the state of ODISHA.

Notwithstanding anything contained herein.

- 1) Our liability under this e-BG shall not exceed Rs.----- ( Rupees-----).
- 2) The e-BG shall be valid up to dt.-----
- 3) We are liable to pay the guaranteed amount or any part there of under this e-BG only & only if you serve upon us at -----branch at Bhubaneswar a written claim or demand on or before dt.-----.

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

For \_\_\_\_\_

[Indicate the name of Bank]

Witness ((Signature, names & address)

1.

2.

**N.B. : 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**

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

Place:

Date:

Signature of tenderer

Name, Designation, Seal

**ANNEXURE-X**

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

SL. No.	Particulars	Quantity	Unit delivery rate	Total price

Place:

Date:

Signature of Tenderer

Name, Designation, Seal

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

Description	Specification	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.**

**A) Technical**

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

Sl. No.	Clause No. of Specification	Particulars of Deviations

Place: -

Date

Signature of Tenderer:

Name, Designation, Seal

**B) Commercial deviations.**

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

Sl. No.	Clause No. of Specification	Particulars of Deviations

Place: -

Date

Signature of Tenderer:

Name, Designation, Seal

**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

**(Reverse Auction Process Compliance Form)**

**Annexure-I (A)**

(To be submitted on letter head of the bidding company with sign and stamp and along with Technical bid)

To,  
CGM (Telecom), OPTCL  
Bhubaneswar-751022, Odisha

Sub: Agreement to the Process related Terms & Conditions for e-Reverse Auction.

Dear Sir,

This letter is to confirm that:

- The undersigned is authorized representative of the company.
- We have studied the Commercial Terms and the Business rules governing the Reverse Auction as mentioned in your tender and confirm our agreement to that.
- We also confirm that we have gone through the auction manual and have understood the functionality of the same thoroughly.
- We, hereby, confirm that we will honour the Bids placed by us during the tendering/ e- Reverse auction process as called as e-RA.
- We also confirm that we will accept our Rank / Position that will be displayed when the Bidding Time for the Online Reverse Auction is over.

With regards,

Signature with Designation with company seal Name & Address  
Person having power of attorney for the subject package.

**ANNEXURE-XIV**

**Certificate ( to be furnished in bidder company's letter head)**

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable evidence of valid registration by the Competent Authority shall be attached.]

Authorized signatory

Company seal

**MANUFACTURE’S AUTHORIZATION LETTER**

TENDER NOTICE NO. :

Date:

To

Whereas..... who are official producers of DTPC and having production facilities at .....do hereby authorize M/s.....located at.....(hereinafter, the “Bidder”) to submit a proposal of the following Products produced by us, for the Supply Requirements associated with the above Tender .

When resold by ....., these products are subject to our applicable standard end user warranty terms.

We assure you that in the event of ....., not being able to fulfill its obligation as our Service Provider in respect of our standard Warranty Terms we would continue to meet our Warranty Terms through alternate arrangements and also provide spares in accordance with the Tender for the period of 03 (five) years.

Name

In the capacity of

Signed

Duly authorized to sign the authorization for and on behalf of:

Dated on

## **SECTION –IV**

### **Technical Specification**

#### **For**

**“Supply, Installation and commissioning of 08 Nos of DTPC in 400 KV Meramundali (B)-TTPS (NTPS) Link”**

## CONTENTS

1. Important Instruction
2. General Information and Scope
  - 2.1 Principle of Operation
  - 2.2 Technical Specifications
  - 2.3 Transmission and Configuration / Management interfaces:
  - 2.4 Interface to protection relays:
  - 2.5 Input
  - 2.6 Output Contact Rating
- 3.0 Inspection & Testing requirement
  - 3.1 Training
  - 3.2 Type Testing

## IMPORTANT INSTRUCTION

**(Please read the following instructions carefully before submitting your bid)**

1. All the drawings, i.e. dimension, elevation, side view, front view, plan, cross sectional view, isometric view, important component drawing etc., in PDF along with AutoCAD format and manuals (Technical/Installation/Operation) in PDF format, for offered item shall be submitted. The hard copies as per specification also shall be submitted. All above documents should be legible.
  2. The acceptability of type test report submitted by any bidder/EPC agency shall be strictly in adherence to the broad guidelines mentioned in clause no 2 of "GUIDELINES FOR THE VALIDITY PERIOD OF TYPE TEST(S) CONDUCTED ON MAJOR ELECTRICAL EQUIPMENT IN POWER TRANSMISSION" published in May 2020.
  3. The Bidder/ EPC agency shall have to submit all the required type test reports for the offered item along with the accessories. In case of submission of soft copy of type test report, high resolution colour scan of the original test report must be submitted. Scanned copy of Xerox of type test reports shall not be entertained. If required, the firm has to show the original type test report for the purpose of verification. In absence of this, the evaluation shall be carried out accordingly as non-submission of type test reports. The type test report of Circuit Breaker submitted by the manufacturer shall be considered valid if the date of type test does not exceed 10 years as on the last date of submission of bid; provided:
    - a. There is no major changes introduced in the basic design / technology /material /mechanical /construction /functionalities /performance characteristics/ manufacturing process of the equipment.
- OR
- b. Until the relevant IS/IEC / statutory guidelines is revised which warrants fresh type tests because of introduction of new type tests even though there is no change in material/basic design of the equipment.
4. The Bidder/ EPC agency must fill up all the point of GTP for offered item/s. Instead of indicating "refer drawing, or as per IS/IEC", the exact value/s must be filled in. All the points other than GTP, which are asked to confirm in technical specifications must be submitted separately with the bid.
5. The Bidder/ EPC agency is required to impart training in view of manufacture, assembly, erection, operation and maintenance for offered item, at his works, to the person/s identified by OPTCL, in the event of an order, free of cost. The cost of logistics will be borne as per the clauses of respective purchase orders/work orders.
6. The discrepancies between the specification and the catalogues or literature, submitted as part of the offer or with prevalent standards or government guidelines shall not be considered as valid deviations unless otherwise the same deviations related to TS is brought out separately by the Bidder/ EPC agency in the pre-bid queries or in form of clarification.
7. If any modifications felt necessary to improve performance, efficiency and utility of equipment, the same must be submitted along with pre bid queries which reasons duly supported by documentary evidences and such modifications not mentioned in pre bid queries will not be considered.
8. For purpose of Agreement, the firm shall provide warranty as specified in the purchase order / tender document. Notwithstanding the foregoing, Supplier agrees to waive the expiration of the Warranty Period in the event where in a pattern of defect/trend of failure is observed after the Warranty Period in a significant portion of the supplied quantity, or any critical defect discovered which, in Purchaser's opinion, constitutes a threat of damage to property or to the health and safety of any person.
9. Warranty certificate for purchase of any material, whether directly procured by OPTCL or through EPC agency, shall be issued directly in favour of OPTCL.

## General Information and Scope

### 1.2 General Information and Scope

1.2.1 The broad scope of this tender includes design, engineering, manufacturing, supply, transportation, insurance, delivery at site, and installation of the following as applicable:

Description	Unit	Quantity
Digital Tele-Protection Coupler compatible for interfacing with SDH MUX(04 set at Meramundali-B ste and 04 set at TTPS site)	Set	08
12 Core*2.5 Sq. mm copper cable at Meramundali-B end	Meter	680
12 Core*2.5 Sq. mm copper cable at TTPS (NTPC) end	Meter	400
Equipment Cabinet (2100 x 600 x 600 mm, H x W x D) with 100 mm plinth suitable for DTPC.(01 no at Meramundali-B site and 01 no at TTPS site)	Nos.	02
Installation & Commissioning Charges of DTPC at Meramundali (B) and TTPS site	LS	01

The Digital Teleprotection (DTPC) Equipment is required to transfer up to 4 binary trip commands from the source station to the destination station over 2E1, with 1+1 transmission path protection and automatic fail-over, in the shortest possible time with security, dependability, and reliability as per the IEC 60834-1 standard. The Teleprotection equipment should operate in EHV environments and must be immune to EMI interference.

### 2.1 Principle of Operation:

During normal operation, the Teleprotection (DTPC) equipment shall transmit a guard code over the over E1 transmission link(s) with housekeeping data such as configuration tables etc. as least priority data. In case a “Trip Command” is actuated in the Teleprotection unit by the protection relays on either end of the Teleprotection link, the Teleprotection unit shall transmit “Trip Command” with the priority command code to the remote-end unit by over-riding the least priority data. After interpreting and validating the received “Trip Command” code, the corresponding Teleprotection unit on the remote-side of the link shall close the respective, corresponding contact and “Trip” the corresponding protection relay.

### 2.2 Technical Specifications:

- Network Interfaces – 2 E1 with 1+1 transmission path protection / route redundancy and automatic failover switching to the standby transmission link in the event of the failure of the primary transmission link.
- Must provide Manual Loop Test and Auto loop test facility with tripping signal taking priority over all types of loop tests.
- Shall meet the IEC 60834-1 standard for security, dependability, and reliability.
- Shall provide External Alarm Outputs which can be connected to Audio and Visual Alarms

- Shall provide visual, numeric Trip Counters for a visual count of both transmit and receive commands.
- User programmable for Direct Tripping, Permissive Tripping and Blocking Protection Schemes (Distance Teleprotection).
- Must support “AND”, as well as “OR” command functions on adjacent command inputs / outputs for implementing protection command redundancy.
- Must reject spurious input commands.
- Must support user programmable output command relay deactivation time for programming the duration of command outputs.
- Must support IRIG-B, NTP and IEEE 1588v2 PTP for time synchronization and accurate time-stamping of all alarms and events.
- The Command Inputs / Outputs must be Optoisolated by design.
- The end-to-end trip “Command” transfer time over both transmission interfaces, excluding the network propagation delay, must be less than 5ms.
- Must support high security and reliability against trip command mal operations.
- Power supply: 48V DC (+25%) positive earthed,
- Operating temperature and humidity: 0 to 55 Centigrade during operation; -40 to 60 centigrade during transportation. 95% non- condensing.
- Number of Input / Output commands: 8 (eight)

### **2.3 Transmission and Configuration / Management interfaces:**

- Network Transmission Interface: E1 plus E1 interfaces with 1+1 path protection and automatic fail-over switching.
- Configuration and Management Interfaces: one RS232 / USB port for local configuration / maintenance, and one 10/100BaseT Ethernet port with Password Protection with Password strength monitoring for remote configuration / maintenance / monitoring of Teleprotection through NMS.
- Must support SNMPv3 to securely monitor the status of the Teleprotection units using the NMS.

### **2.4 Interface to protection relays:**

#### **2.5 Input:** Potential Free Contact

#### **2.6 Output Contact Rating:**

Rated voltage: 250 Volts DC

Rated current: 5.0 A DC

Other parameters: As per IEC-255-0-20

**DATA REQUIREMENTS SHEET for Digital Teleprotection  
Equipment Over E1 plus E1 Network Transmission Interfaces.**

**Name of Manufacturer:**

**Model:**

S No	Parameter	Units	Mandatory Requirements
<b><u>Major Technical Parameters</u></b>			
1.	Digital Communication interface standards	Electrical	2.048Mbps E1 Interface as per ITU-T G.703 specifications.
2.	Teleportation Network Interfaces	Electrical	1+1 Protected E1 Network Transmission Interfaces with 1+1 path protection and automatic failover switching to the standby transmission link in the event of the failure of the primary transmission link.
3.	Transmission Link Switching Criteria	-	LOS (Loss of Signal), AIS (Alarm Indication Signal) and RA (Remote Alarm) for E1
4.	Transmission link failure detection and switching time between Active and Standby Transmission link	ms	< 50ms
5.	Number of Input Binary Commands	Nos	4 Commands
6.	Number of Output Binary Commands	Nos	4 Commands
7.	Protection Schemes	-	Direct Transfer Tripping, Permissive Tripping, Blocking Tripping
8.	Additional Command Combinations	-	Must also support "AND" / "OR" Command Configurations for implementing command redundancy.
9.	Operating / Command transfer Time	ms	< 2 ms
10.	Total Back-to-back command transfer and operate time, excluding propagation delay	ms	< 5 ms
11.	Supported Command Voltages	VDC	User Selectable 110VDC / 250VDC
12.	1+1 Redundant Power Supply	VDC	Dual DC Power Inputs: 48 VDC with reverse polarity protection.
13.	User programmable time-of-day clock synchronization / timing mode	IRIG-B / NTP / PTP	User Configurable; IRIG-B, NTP and PTP input options for time synchronization
14.	User Selectable / Automatic Periodical Link Test	Yes/No	Yes

15.	Link Performance Alarms	Yes/No	Yes
16.	System Performance Alarms	Yes/No	Yes
17.	Alarms Logging	Yes/No	Yes
18.	Event (Command and Switching) Logging	Yes/No	Yes
19.	External Alarm Relay	Yes/No	Yes (Additional User configurable 8 external alarms available with external Trip Counter Display Unit)
20.	SNMPv3	Yes/No	SNMPv3 for remote monitoring
21.	Remote Access – Telnet and GUI	Yes/No	10/100BaseT Ethernet Interface for remote access over an IP network
22.	Password Protection	Yes/No	Encrypted Password Protection
23.	Network Management System Support	Yes/No	SNMP v3 Traps with optional NMS for real time remote monitoring and management over an IP network
<b><u>Alarms</u></b>			
24.	Should provide visible LED indication on front panel	Yes/No	Provided
25.	Should provide SNMP monitoring	Yes/No	Provided
26.	Should provide dry-contact outputs to connect external alarms	Yes/No	Provided
<b><u>Power Supply</u></b>			
27.	Nominal DC input voltage	48 VDC	48V DC
28.	Range of Input voltage	+/- 25%	48V DC. Range 36VDC~60VDC
29.	Input Voltage Reversal Protection	Yes/No	Yes
30.	Over Current Protection	Yes/No	Yes
31.	Short Circuit Protection	Yes/No	Yes
32.	Efficiency at Full Load	%	> 91%
33.	Ripple at Full Load	Vrms	< 5mVrms
34.	Spike at Full Load	mV	<50mV
35.	Power Consumption (maximum) under full load	Watts	<15 Watts (without trip counter) <25 watts (with trip counter)

<b><u>EMI, EMC, Surge Withstand and other Compliances.</u></b>			
36.	Reliability (Dependability, PMC: Probability of Missing a Command) of a command sent in BER between 10 <sup>-3</sup> and 10 <sup>-6</sup> must be < 1%	IEC60834-1 conditions	Complied as per IEC 60834-1
37.	Security (Security, PUC: Probability of an Unwanted Command) of a command doesn't sent in condition of BER=0,5, must be <<10 <sup>-10</sup>	IEC60834-1 conditions	Complied as per IEC 60834-1
38.	Electromagnetic compatibility	IEC60834-1 conditions	Complied as per IEC 60834-1, IEC 60870-2-1 / IEC 60068-2, IEC 60255-5 specifications
39.	Interface to Protection relays (Input) Rated Voltage Maximum current rating Other Parameters	Volts (DC) Amps (DC) IEC standards	290V DC 5mA IEC-255-0-20 / VDE 0435, 0631, 0700, 40013847
40.	Interface to Protection relays (Output) Rated Voltage Maximum current rating Other Parameters	Volts (DC) Amps (DC) IEC standards	290V DC 5A IEC-255-0-20 / VDE 0435, 0631, 0700, 40013847
41.	Alarm Contact Relays Rated Voltage Maximum current rating Other Parameters	Volts (DC) Amps (DC) IEC standards	290V DC 5A IEC-255-0-20 / VDE 0435, 0631, 0700, 40013847
42.	Contact input/output Hi-pot dielectric	2.5kV	2.5kV RMS
<b><u>Environment</u></b>			
43.	Operational Temperature	° C	-10° C to 55° C
44.	Storage Temperature	° C	-25° C to 70° C
45.	Humidity	% R.H	95% R.H. (non-condensing)
46.	Altitude	-	Up to 9,000 feet
<b><u>Other</u></b>			
47.	MIB files should be provided to monitor the equipment from a standard MIB browser.	Yes/No	To support SNMPv2 and SNMPv3
48.	Download link for soft copy of the user manual and GUI software	Yes/No	Yes
49.	Free online support for three years	Yes/No	Yes
50.	1 Year Standard warranty	Yes/No	Yes
51.	Spare parts availability for next 5 years	Yes/No	Yes

<b><u>OAM: Operation and Management Ports</u></b>			
52.	RS-232 Console Port	Yes/No	Yes
53.	USB COM Port	Yes/No	Yes
54.	10/100BaseT Ethernet for remote access.	Yes/No	Yes
<b><u>System Access, Control and Management Options:</u></b>			
55.	Telnet – Remote access over IP links with clear-text disable option	Yes/No	Yes
56.	SSH – Must also support secured remote access using SSH, Secure Shell Protocol over IP links	Yes/No	Yes
57.	CLI Control Interface (HyperTerminal or VT100)	Yes/No	Yes
58.	SNMPv3 Traps (Must support SNMPv3. MIB File to be also provided with the equipment).	Yes/No	Yes
<b><u>Security and Password Access Control</u></b>			
59.	Secured Access via SSH	Yes/No	Yes
60.	Password Protection with password strength monitoring	Yes/No	Yes
61.	Logging: Maintains a log of all successful and un-successful attempts. Logged information includes the IDs and IP address of the accessing entities (applicable on Telnet and SSH). Alerts the administrator with an SNMP Trap if the un-successful logging attempts are exceeded.	Yes/No	Yes
62.	Security Audit: All access log history is maintained for security audit purposes.	Yes/No	Yes
<b><u>OEM Eligibility Criteria</u></b>			
<b><u>Eligibility Criteria</u></b>		<b><u>Credentials to Be provided</u></b>	
63.	OEM should be domestic Indian manufacturer	Notarized Certificate from Chartered Accountant to be submitted	
64.	Offered products should qualify for 65% local content value addition.	Notarized Certificate from Chartered Accountant to be submitted	
65.	Product IPR and source code should be held by Indian company	Notarized Certificate from OEM to be submitted	
66.	Year of establishment – at least 10 years old company	Notarized Certificate from OEM to be submitted	
67.	Class I supplier certification from Chartered Accountant	Notarized Certificate from Chartered Accountant to be submitted	
68.	Trusted Source Company confirmation of Government of India for OEM company	Trusted Source OEM confirmation	
69.	Perpetual License on product sale	Confirmation from company	

### **3.0 Inspection & Testing Requirement**

All materials furnished and all work performed under this Contract shall be inspected and tested. Deliverables shall not be shipped until all required inspections and tests have been completed, and all deficiencies have been corrected to comply with this Specification and approved for shipment by the Employer.

Except where otherwise specified, the Contractor shall provide all manpower and materials for tests, including testing facilities, logistics, power and instrumentation, and replacement of damaged parts. The costs shall be borne by the Contractor and shall be deemed to be included in the contract price.

The entire cost of testing for factory, production tests and other test during manufacture specified herein shall be treated as included in the quoted unit price of materials including the expenses of Inspector/Employer's representative as per clause-41 of ITB.

Acceptance or waiver of tests shall not relieve the Contractor from the responsibility to furnish material in accordance with the specifications.

All tests shall be witnessed by the Employer and/or its authorized representative (hereinafter referred to as the Employer) unless the Employer authorizes testing to proceed without witness. The Employer representative shall sign the test form indicating approval of successful tests.

Should any inspections or tests indicate that specific item does not meet Specification requirements, the appropriate items shall be replaced, upgraded, or added by the Contractor as necessary to correct the noted deficiencies at no cost to the Employer. After correction of a deficiency, all necessary retests shall be performed to verify the effectiveness of the corrective action.

The Employer reserves the right to require the Contractor to perform, at the Employer's expense, any other reasonable test(s) at the Contractor's premises, on site, or elsewhere in addition to the specified Type, Acceptance, Routine, or Manufacturing tests to assure the Employer of specification compliance.

#### **3.1 Training:**

3.1. The supplier shall provide all possible facilities for training of Purchaser's Technical personnel, when deputed by the Purchaser for acquiring first-hand knowledge in the production process, operation, general maintenance etc. at the works of the supplier or at our installation site, wherein it is thought necessary by the purchaser.

#### **4 Type Testing:**

4.1 "Type Tests" shall be defined as those tests which are to be carried out to prove the design, process of manufacture and general conformity of the materials to this Specification. Type Testing shall comply with the following:

4.1.1 All cable & equipment being supplied shall conform to type tests as per technical specification.

4.1.2 The test reports submitted shall be of the tests conducted within last seven (7) years for DTPC prior to the date of proposal/offer submitted. In case the test reports are older

than seven (7) years for DTPC on the date of proposal/offer, the Contractor shall repeat these tests at no extra cost to the Employer.

- 4.1.3 The Contractor shall submit, within 30 days of Contract Award, copies of test reports for all of the Type Tests that are specified in the specifications and that have previously (before Contract award) been performed. These reports may be accepted by the Employer only if they apply to materials and equipment that are essentially identical to those due to be delivered under the Contract and only if test procedures and parameter values are identical to those specified in this specifications carried out at accredited labs and witnessed by third party / customer's representatives.
- 4.2 In the event of any discrepancy in the test reports or any type tests not carried out, same shall be carried out by Contractor without any additional cost implication to the Employer.
- 4.3 In case the Type Test is required to be carried out, then following shall be applicable:-
  - 4.3.1 Type Tests shall be certified or performed by reputed laboratories using material and equipment data sheets and test procedures that have been approved by the Employer. The test procedures shall be formatted as defined in the technical specifications and shall include a complete list of the applicable reference standards and submitted for Employer approval at least four (4) weeks before commencement of test(s). The Contractor shall provide the Employer at least 30 days written notice of the planned commencement of each type test.
  - 4.3.2 The Contractor shall provide a detailed schedule for performing all specified type tests. These tests shall be performed in the presence of a representative of the Employer.
  - 4.3.3 The Contractor shall ensure that all type tests can be completed within the time schedule offered in his Technical Proposal.
  - 4.3.4 In case of failure during any type test, the Supplier is either required to manufacture a fresh sample lot and repeat all type tests successfully or repeat that particular type test(s) at least three times successfully on the samples selected from the already manufactured lot at his own expenses. In case a fresh lot is manufactured for testing then the lot already manufactured shall be rejected.

**PART – II**  
**PRICE BID**

**1. PRICE:**

- (i) Bidders are required to quote their price(s) for goods offered indicating they are 'FIRM'
- (ii) The prices quoted shall be FOR Destination only at the consignee's site/store inclusive of packing, forwarding, Freight & Insurance. In addition, the break-up of FOR Destination price shall be given as per schedule of Prices in Annexure-V of Section – III. The 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/equipment, covered by the Specification should normally be done by the Suppliers with their own Insurance Company unless otherwise stated. The responsibility of delivery of the materials/equipment at destination stores/site in good condition rests with the Supplier. Any claim with the Insurance Company or Transport agency arising due to loss or damage in transit has to be settled by the Supplier. The Supplier shall undertake free replacement of equipment/materials damaged or lost which will be reported by the Consignee within 30 days of receipt of the equipment/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 Bidders should fill up the price schedule (Annexure-V of Section-III) properly and in full. The tender may be rejected if the schedule of price is submitted in incomplete form as per clause-34 (ix) of Section-II of the Specification.

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

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