



ODISHA POWER TRANSMISSION CORPORATION LTD
OFFICE OF THE ENGINEER - IN- CHARGE
BHARATNET PROJECT
JANPATH, BHUBANESWAR - 751022

TENDER SPECIFICATION
NO. EIC- BharatNet –PSC –e-Tender- 2 /2025-26
For Supply & erection of 220 nos 8/9 Metre PSC Poles.
(E tendering mode only)

Sl. No.	ITEM DESCRIPTION	UNIT	Total Qty.
1	8/9 Meter PSC Poles	Nos	220

The bidders are requested to quote their rates for item under the Tender.

Request for online tender documents – From Dt- 24.02.2026 (10.00 AM) to Dt- 10.03.2026 (12.30 PM)

Last date of submission of online tender - Dt- 11.03.2026 (12.30 PM)

Date of opening of Tender - Dt- 11.03.2026 (03.00 PM)



ODISHA POWER TRANSMISSION CORPORATION LTD.

REGD. OFFICE: JANPATH, BHUBANESWAR – 751 022,

ODISHA

EIC. BharatNet –e-Tender-2/ 2025-26

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD, Engineer – in-Charge [BharatNet] invites Tenders from reputed manufacturers in two part bidding system for supply and erection of **8/9 Meter PSC Poles**. The interested bidders would be required to enrol themselves on the tender portal www.tenderwizard.com/OPTCL. Complete set of bidding documents are available at www.tenderwizard.com/OPTCL from Dt. **24.02.2026** at 10.00 A.M to Dt. **10.03.2026** at 12.30 P.M.. Interested bidder may visit OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL for detail specification.

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

Engineer-in-Charge
BharatNet Phase-II Project

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

EIC. BharatNet –e-Tender 2 / 2025-26

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

Tender Specification No.	Sl.	Item description	Unit	Qty	EMD in (Rs)	Cost of tender document in (Rs)	Tender Processing Fee (Rs)	Last date of receipt & opening of tender
EIC- BharatNet –PSC –e- Tender- 2 /2025-26	1	8/9 Meter PSC Poles	Nos	220	41,847/- (Bid Security Declaration to be furnished in Annexure-I(A))	12,000/- (INR) + GST@ 18%= 14,160/-	5000/- (INR)+ GST@ 18%= 5900/-	Dt- 10.03.26 (12.30 PM) & Dt- 11.03.26 (03.00 PM)

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

TENDER COST:

The bidders who want to submit bids shall have to pay non-refundable amount Rs. 14,160/- (Rupees Fourteen Thousand One Hundred Sixty) Only towards the tender cost **online** through e-payment gateway link provided in e-tender portal (by using Net Banking, Debit Card or Credit Card). They have to also submit notarized hard copy of GST registration certificate on or before the date & time of opening of techno-commercial bid (Part-I). The bidders can also submit Tender Cost as per tender notice, The online payment can be made prior to last date & time of submission of online tender.

TENDER PROCESSING FEE:

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

SUBMISSION OF TENDER COST & TENDER PROCESSING FEE & EMD:

The bidder shall deposit the tender cost, tender processing fee and EMD prior to last date & time of opening of bid(Part-I) as notified in tender notice. The bidders shall scan and upload the same in the prescribed form in .gif or .jpg format in addition to sending the original as stated above. The bidder(s) shall submit Proof of payment of Tender Cost, Tender Processing fees, EMD and shall upload the same in the prescribed attachment in .gif or .jpg format in addition to submitting the original to the undersigned on or before the scheduled date and time for opening of Technical Bid. The prospective bidders are advised to register their user ID, Password, company ID from website 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.

Engineer-in-Charge, BharatNet Phase-II Project

**ODISHA POWER TRANSMISSION CORPORATION LTD.
OFFICE OF THE ENGINEER –IN-CHARGE
BHARATNET PHASE-II PROJECT
JANAPATH, BHUBANESWAR – 751022**

**TENDER SPECIFICATION
NO. EIC. BharatNet –e-Tender-2/2025-26**

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

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

COMMERCIAL SPECIFICATION.

PART – I

SECTION - I

INSTRUCTIONS TO TENDERER

1. Submission of Bids:-

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

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

4. Opening of Bids.

- [a] The part-I shall be opened on the date and time fixed by the OPTCL for opening of bids in Electronic mode in presence of such of the Tenderers or their authorized representatives [limited to one person only] on the due date of opening of tender who opt remain present. After scrutiny of the technical particulars and other commercial terms, clarifications, if required, shall be sought for from the bidders. The Tenderers shall be allowed 15 days time for such activity.
- [b] On receipt of technical clarification, the bids shall be reviewed, evaluated and those not in conformity with the technical Specification / qualifying experience, shall be rejected. If any of the technical proposal requires modification to make them comparable, discussion will be held with the participating bidders.

All the responsive bidders shall be given opportunity to submit the revised technical and revised price proposals as a follow up to the clarification (modification if any) on the

technical proposals. The qualified bidders shall be given opportunity to submit revised price proposals within 15 days from the date of such discussion or within time frame mutually agreed, whichever is earlier.

- [c] When the revised price proposals are received, the original price proposals will be returned to the bidders unopened along with their original technical proposals. Only the revised technical and price proposals will be considered for bid evaluation. The price bids [Part-II] of such of the Tenderers, whose tenders have been found to be technically and commercially acceptable, including those supplementary revised price bids, submitted subsequently, shall be opened in the presence of the bidder's representative on a date and time which will be intimated to all technically and commercially acceptable Tenderers.
- [d] The bidders are required to furnish sufficient information to the Purchaser to establish their qualification, capacity to manufacture and/or supply the materials/perform the work. Such information shall include details of bidder's experience, its financial, managerial and technical capabilities.
- [e] The 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 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 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 bidders who have deposited the cost of tender specification are eligible to participate in the tender. They should submit the money receipt as a proof of such payment. The local Micro and small Enterprises (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

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. Bid Security: Bidders are to furnish bid security declaration as per the prescribed format at Annexure-I.

12. Validity of the Bids: -

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

13. PRICE: -

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

14. Revision of tender price by Bidders: -

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

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

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

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

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

16. Documents to Accompany Bids.

Tenderers are required to submit tenders in the following manner:

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

[i] Declaration Form. [As per Annexure-I]

[ii] Bid security declaration. [As per Annexure-I].

- [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] Abstract of Terms & conditions in prescribed proforma as per **Annexure-II**.
- [v] General Terms & Conditions of supply offer as per Section-II of the Specification.
- [vi] List of orders executed for similar materials during the period as against "minimum qualification requirement", indicating the customer's name, Purchase Order No. & Date, date of supply and date of commissioning etc.
- [vii] Data on past experience **as per Clause-7 of Section-II** of the Specification.
- [viii] 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.
- [ix] Audited Balance sheet & profit loss accounts of the bidder, for past (3) three years.
- [x] Schedule of quantity and delivery in the prescribed Proforma vide **Annexure, as appended**.
- [xi] List of Orders in hand to be executed.
- [xii] Deviation schedule.
- (xiii) 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 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 and upload the scan/soft copy of the same in e-tender portal.
- [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.

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

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

18. Conditional Offer:

Conditional offer shall not be accepted.

19. General: -

- (i) In the event of discrepancy or arithmetical error in the schedule of price, the decision of the purchaser shall be final and binding on the Tenderer.
- (ii) For evaluation, the price mentioned in words shall be taken if there is any difference in figures and words in the price bid.
- (iii) Notice inviting tender shall form part of this specification.
- (iv) The price bids of the technically and otherwise acceptable bids shall only be evaluated.
- (v) It should be distinctly understood that the part-II of the bid shall contain only details/documents relating to price, as outlined in clause-17 mentioned herein above. Inclusion of any of the documents/information etc. shall render the bid liable for rejection.

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

The testing and inspection of the materials at manufacturer works are in the scope of work of the 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/Ind 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 Air or train (1st/Ind 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) 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 materials, OPTCL may depute more than one inspecting officer.
- (iv) 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 materials of the relevant contract package.
- (v) It shall be the responsibility of the manufacturer to organize the above tour related matters of OPTCL inspecting officer including the matters related to overseas inspection/testing, if any.

21. Litigation/Arbitration

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

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

22. Pre-bid conference : A pre-bid meeting may be held as per request of bidders if any, in the office of the Engineer-in-Charge, BharatNet Phase – II, Project. OPTCL. Interested bidders may raise written queries, if any, pertaining to this tender package.

SECTION – II.

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

<u>Clause.</u>	<u>Title.</u>	<u>Page.</u>
1.	Scope of the contract.	15
2.	Definition of terms.	15
3.	Manner of execution.	16
4.	Inspection and testing.	16
5.	Rejection of materials.	17
6.	Experience of bidders.	17
7.	Language and measures.	17
8.	Deviation from Specification.	18
9.	Right to reject/accept any tender.	18
10.	Supplier to inform himself fully.	18
11.	Patent rights etc.	18
12.	Delivery.	19
13.	Dispatch Instructions.	19
14.	Supplier's Default Liability.	19
15.	Force Majeure.	19
16.	Extension of Time.	20
17.	Guarantee Period.	20
18.	Bank Guarantee towards Security Deposit, Payment and Performance.	20
19.	Import License.	21
20.	Terms of Payment.	21
21.	Price Reduction Schedule	21

22.	Insurance.	21
23.	Payment Due from the Supplier.	22
24.	Sales Tax clearance & GST rating, Audited Accounts	22
25.	Certificate of exemption from Goods & Services Tax.	22
26.	Supplier's Responsibility.	22
27.	Validity.	22
28.	Evaluation.	22
29.	Minimum qualification criteria of Bidders.	25
30.	Jurisdiction of High Court of ODISHA.	26
31.	Correspondences.	26
32.	Official Address of the Parties to the Contract.	26
33.	Outright rejection of Tenders.	27
34.	Documents to be treated as confidential.	28

PART-I

SECTION-II

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

1. **Scope of the contract:**

1.1 The scope of the contract shall be the design, manufacture, assembly, inspection and testing at the manufacture's work, packing and delivery F.O.R. (destination) of the materials specified for the respective stations.

1.2 The manufacturer/Supplier has to dispatch the materials after inspection at factory to the designated site . The site wise quantity of materials to be dispatched shall be intimated to the manufacturer/supplier during issue of DI (Dispatch instruction). List of sites is also attached at **Annexure-1** for reference.

1.3 Installation/Erection of 8/9 MTR PSC Pole including loading and unloading, transportation , excavation, Includes and civil work. The scope also includes providing of all civil material for concreting . Excavation for grouting, including concreting as per relevant standards . Concreting to be done with PCC-1:1.5:3. of size - 500x500x1500 and ,Padding 500x500x150mm. Scope of work also includes 5 days curing and zebra painting (In Black & Yellow Strips/Zebra).

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 Engineer-in-Charge [BharatNet] for and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., Bhubaneswar.
- 2.1.1 "The Engineer" shall mean the Engineer appointed by the Purchaser for the purpose of this contract.
- 2.2 "Purchaser's Representative" shall mean any person or persons or consulting firm appointed and remunerated by the Purchaser to supervise, inspect, test and examine materials 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 "Contract Price" shall mean the sum named in or calculated the bid.
- 2.6 "General Condition" shall mean these General Terms and Conditions of Contract.
- 2.7 "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.
- 2.8 "Month" shall mean "Calendar month".
- 2.9 "Writing" shall include any manuscript, type written, printed or other statement reproduction in any visible form and whether under seal or under hand.

- 2.10 Basic Price (Taxable value for Goods) at the point of destination” shall mean the price quoted by the bidder for 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.
- 2.11 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.
- 2.12 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 the materials supplied under the contract shall be manufactured in the manner, set out in the specification or where not set out, to the reasonable satisfaction of the Purchaser’s representative.

4. **Inspection and Testing:**

- [i] The purchaser’s representative shall be entitled at all reasonable times during manufacture to inspect, examine and test at the supplier’s premises, the materials and workmanship of all 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, labor, 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. **Rejection of Materials.**

In the event any of the 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 manufacturer on receipt of such notification shall either rectify or replace the defective 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 materials and recover the extra costs so involved from the manufacturer 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 materials at reduced price, considered equitable under the circumstances.

6. **Experience of Bidders:**

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

- [i] No of PSC poles or similar poles erected for use in DISCOM/ Telecom works.
- [ii] Description of material similar to that quoted, installed during the last two years with the name(s) of the Organizations installation were made.

- [iv] A list of purchase/work orders of identical material offered as per technical specification executed during the last two years. Bids will not be considered if the past supply/erection experience is found to be un-satisfactory or is of less than 50% of the tendered quantity during last 2 (two) years as on the date of opening of the bid.
7. **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.
8. **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.
9. **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].
10. **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.
11. **Patent rights Etc.**
The manufacturer 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.

12. **Delivery:-**

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

13. **Dispatch instructions.**

- I] The materials should be dispatched directly to the specified site at the supplier's risk by Road Transport only. Location of sites are attached at **Annexure-1**

- 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.

14. **Supplier's Default Liability.**

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

15 **Force Majeure:**

The manufacturer 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 notifies the purchaser in writing of the cause of delay. The purchaser shall verify the facts and grant such extension, if facts justify.

16. Extension of time:-

If the delivery of 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.

17. Guarantee period:

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

[ii] Equipment/material failed or found defective during the guarantee period shall have to be guaranteed after repair/replacement for a further period of 36 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 dispatch by the purchaser after due inspection.

18. B.G. towards security deposit, 100% payment:

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

A Composite Bank Guarantee as per the Proforma enclosed at Annexure-VII of the specification for 10% (Ten percent) of the Total Landing cost (Taxable Value plus GST thereon) of the purchase order (In case of successful bidder who is a local Micro and small Enterprise (MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC 3% (Three percent), shall be furnished from any nationalized/scheduled bank having a place of business at Bhubaneswar, to the office of Chief General Manager [Telecommunication] OPTCL within 15 days from the date of issue of the purchase order. The BG shall be executed on non judicial stamp paper worth of Rs.29.00 [Rupees twenty nine] only or as per the prevalent rules, valid for a period of 14 months from the last date of stipulated delivery period, for scrutiny and acceptance, failing which the supply order will be liable for cancellation without any further written notices. The BG should be accompanied by a confirmation letter from the concerned bank and should have provision for encashment at Bhubaneswar, before the Bank Guarantee is accepted and all concerned intimated. The B.G should be revalidated as and when intimated to you to cover the entire guarantee period.

[ii] No interest is payable on any kind of Bank Guarantee.

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

19. **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.

20. **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

ii) TDS under GST Laws for intra state transactions shall be deducted as applicable.

iii) Any imposition of new tax or revision of tax shall be paid/reimbursed at the time of dispatch, scheduled or actual whichever is lower (i.e. If delivery is within schedule period, tax variation as applicable shall be paid, and if delivery is made beyond schedule date, any additional financial implication due to statutory variation in tax shall be to bidder's account)

Balance 10% of the taxable value of the equipment, shall be paid after completion of the guarantee period.

21. **Price Reduction Schedule:**

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

(i) If the Supplier fails to deliver the materials within the delivery schedule, specified in the Purchase Order/Contract including delivery time extension, if any, granted with waiver of Price Reduction Schedule, the Purchaser shall recover from the Supplier, Price Reduction Schedule for a sum of half per cent (0.5 per cent) of the Taxable Value of the un-delivered equipment /materials/uncompleted portion 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/erection. 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 material within 30 days from the date of intimation of defect by the purchaser, then the Price Reduction Schedule at the rate of half percent (0.5%) of the Total Taxable Value for each calendar week of delay or part thereof shall be recovered by the purchaser. For this purpose, Price Reduction Schedule shall be reckoned from the 30th day from the date of issue of letter on defectiveness of equipment/material/installation. 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.

22. **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.

23. Payment Due from the manufacturer. 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 manufacturer, under any of the contract (s), executed with OPTCL.

24. 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.

25. 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.

26. 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)

27. 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.

28. EVALUATION.

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

- a) Taxable value of materials

- b) Goods and Services Tax
- c) Other levies.
- d) Any other items, as deemed proper for evaluation by the purchaser.
- e) Loading factors will be taken in to account during evaluation if the prices of some of the items, not quoted.
- f) Any imposition of new tax or revision of tax shall be considered at the time of price bid evaluation.

(II) e-Reverse Auction is hereby incorporated in the referred tender as follows.

STRATEGY FOR E-REVERSE AUCTION	
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 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"
Procedure for electronic Reverse Auctioning (e-RA):	
5	<p>a. The e-RA shall be conducted on www.tenderwizard/OPTCL.com only.</p> <p>b. Bidder has to submit letter towards agreement to the Process related Terms & Conditions for e-Reverse Auction, as per (Reverse Auction Process Compliance Form at Annexure-IB). 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 & 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 & 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. (eg. 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 & 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 & 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 shall remain enabled for the bidders. The reverse auction period shall be unlimited and the initial auction period (1st 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 initial auction period or extended auction period, the auction shall get extended automatically for another 10 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 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>
---	--

(III) 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.

- (IV) The local MSE (**In the state of Odisha**) bidders, based in Odisha, 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.

29. 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 PSC pole erection experience and at least 50% of the tendered quantity should have been erected within last 2 (Two) years as on the original date of opening of the techno-commercial bid.
- ii) Manufacturer of PSC poles should have own in-house testing facilities for acceptance test as per technical specification. Bidder must submit valid certificates of manufacturer in this regard
- iii) 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 the requirement of Govt. of India.
- (iv) "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.

(v) "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.

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

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.

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

[A] 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.]

30. Jurisdiction of the High Court of Odisha.

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

31. 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.

32. Official Address of the Parties to the Contract

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

[i] **Purchaser:** Engineer-in-Charge BharatNet Phase II Project, OPTCL
Janpath, Bhubaneswar-751022 (Odisha)

Email id: eic.bharatnet_ph2@optcl.co.in

Cell No. 9438907477

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

33. **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) **(In the state of Odisha)**, based in Odisha & 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 or by FAX.
- [iv] The Tender shall be kept valid for a minimum period of 180 days from the date of opening of tender.
- [v] The Tender shall be submitted in two parts as specified.
- [vi] The Tenders shall be accompanied by a list of major supplies made prior to the date of opening of tender. Data of at least 2 (two) years shall be furnished.
- [vii] The tenderer shall upload the scanned copy of latest type test certificates (for the tests, carried out on the tendered equipment, being offered). Such type tests should have been conducted within last five years from the date of opening of this tender in a Government approved laboratory in presence of any Government Organization's representative(s).
- [viii] The schedule of prices should be filled up fully to indicate the break-up of the prices including taxes and duties. Incomplete submission of this schedule will make the tender liable for rejection. Vide Clause-4(ii) of Part-II.
- [ix] The Tenderer should quote 'FIRM' price only and the price should be kept valid for a minimum period of 180 days from the date of opening of the tender.
- (x) 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 2 years from the date of commissioning/use as per the tender specification.
- (xi) Guaranteed Technical particulars & Abstract of terms and Conditions should be filled in completely.
- (xii) (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.
- (xii) (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. 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.

34. **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.

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(A)
2.	Reverse Auction Process Compliance Form	ANNEXURE-I(B)
3.	Abstract of terms and conditions to accompany Section-II of Part-I	ANNEXURE-II
4.	Schedule of Quantity and Delivery	ANNEXURE-III
5.	Abstract of price component [to accompany Part-II of this specification]	ANNEXURE-IV
6.	Schedule of prices to accompany Part-II	ANNEXURE-V
7.	Composite Bank Guarantee form for security deposit, payment and performance	ANNEXURE-VII
8.	Data on Experience.	ANNEXURE – IX
9.	Schedule of deviations (Technical)	ANNEXURE-X (A)
10.	Schedule of deviations (Commercial)	ANNEXURE-X (B)
11.	Litigation /Arbitration	ANNEXURE-XI
12.	Format for extension of Bank guarantee	ANNEXURE-XII
13.	Tender specific authorization from the manufacturer of the offered equipment.	ANNEXURE-XIII
14.	DPIT	ANNEXURE-XIV

ANNEXURE – I(A)

DECLARATION FORM

To

The Engineer-in-Charge, BharatNet Phase-II Project
OPTCL Head Qrs.BBSR,751022

Sub:- Tender Specification No-_____

Sir,

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

Bid Security Declaration

*I/We further declare that, we will not modify/withdraw the bid after opening of techno-commercial bid(i.e. part-I bid) during its validity period and in such an event we agree that OPTCL would be free to debar us from participating in the tenders floated by OPTCL for a period of three years .

Signed this day of 2025

Yours faithfully

Signature of the Bidder with seal of the company

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

* (Strikeout whichever is not applicable)

(Annexure-I B)

(Reverse Auction Process Compliance Form)

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

To,

EIC, BharatNet Project OPTCL, Bhubaneswar-751010, 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-II

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

(To be filled up by the tenderer as indicated in the excel sheet for "ABSTRACT OF PRICE COMPONENT & OTHER COMMERCIAL ASPECTS")

ANNEXURE-III

SCHEDULE OF QUANTITY AND DELIVERY

(To be filled up by the tenderer)

SI No	Description	UOM	Quantity required	Desired Delivery cum completion of erection at sites	Destination	Remarks
1	8/9 Meter PSC Poles	Nos	220	02 Months from the date of LOA	Any store/site of OPTCL	

Signature of Tenderer
with seal of Company

ANNEXURE-IV
(Abstract of price component)

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

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

Signature of Tenderer
with seal of Company

ANNEXURE-V.

SCHEDULE OF PRICES

TENDER SPECIFICATION No.

Item No.	Description.	Qty (unit)	Supply & erection Unit Taxable Value at destination store/ site	Unit GST	Unit landing Cost including All taxes & Duties.	Total landing cost Including all taxes & duties.
1.	2.	3.	4.	5.	6= (4+5)	7= (6*3)

Signature of Tenderer

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.
4. The bidder is to clearly indicate the period up to which the tax holidays are available to them.
5. Price bid in any other format will not be acceptable and the offer will be rejected.
6. All the above charges will be taken into account, during bid price evaluation.

ANNEXURE-VII

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

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

Ref No:-

Bank Guarantee No.

Date:

BG Amount:.....

Validity Period:.....

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

Whereas the ODISHA POWER TRANSMISSION CORPORATION Limited, Janpath, Bhubaneswar, a company constituted under the Companies Act-1956 (hereinafter called OPTCL) has issued Letter of Award (LOA) No..... Dated..... for the purpose of Supply of materials (here-in after called "the Agreement") to M/s/Shri , Address..... (herein after called the "Contractor") for supply under the above LoA and whereas OPTCL has agreed (1) to exempt demand of security deposit under the terms and conditions of the LOA (2) to release payment of the cost of the Contract Price to the Contractor on furnishing by the Contractor to OPTCL a Contract Performance Bank Guarantee (CPBG) of the value of 3% of the Contract Price of the said Agreement.

1. Now therefore, in accordance with the terms and conditions of LOA No. _____ dated _____ for the due fulfillment by the said Contractor of the terms and conditions contained in the said agreement, on production of a Bank Guarantee for Rs. _____ (Rupees _____) only, we the bank _____ [Indicate bank Name , Address & Code] (hereinafter referred to as "the Bank") at the request of M/s/Shri _____ contractor do hereby undertake to pay to OPTCL, an amount not exceeding Rs. _____ (Rupees _____) only .

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

3. We, the Bank also undertake to pay to OPTCL any money so demanded not withstanding any dispute or disputes raised by the Contractor in any suit or proceeding instituted / pending before any court or tribunal relating thereto, our liability under this present being absolute and irrevocable. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor shall have no claim against us for making such payment.

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

the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor and accordingly discharges this guarantee.

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

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

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

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

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

“ Notwithstanding anything contained herein”

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

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

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

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

Dated, the _____ Day of _____
For _____ [Indicate name of Bank]

Signature.....

Full Name.....

Designation.....

Power Of Attorney.....

Dated.....

Seal of the Bank.....

WITNESS: (SIGNATURE WITH NAME AND ADDRESS)

1. Signature.....

Full Name.....

2. Signature.....

Full Name.....

N.B.:

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

Format for SFMS details

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	
12	Beneficiary's Bank/Branch name and address	Mandatory	
13	Sender to receiver information	Mandatory	
14	Purpose of Guarantee	Mandatory	Contract Performance
15	Reference/Description of the underlined tender/contract	Mandatory	LOA No----

ANNEXURE-IX

DATA ON EXPERIENCE

- [a] Description of PSC pole or similar material to that quoted supplied/installed during the last three years with the name of the organizations to whom supply/installation was made].
- [b] Details as to where installed etc.
- [c] Testing facilities at manufacturer's works.
- [d] If the manufacturer having collaboration with another firm, details regarding the same and present status.
- [e] A list of purchase orders, executed during last three years.
- [f] A list of similar materials of desired specification, Designed, manufactured, tested and supplied 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

DEVIATION SCHEDULE.

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

A) Technical

Sl.No	Clause No. of specification	Particulars of deviations.

Place: -

Date

Signature of Tenderer:

Name, Designation, Seal

B) Commercial deviations.

A) Commercial.

Sl.No	Clause No. of specification.	Particulars of deviations.

Place: -

Date

Signature of Tenderer:

Name, Designation, Seal

ANNEXURE – XI

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

ANNEXURE – XII

PROFORMA OF EXTENSION OF BANK GUARANTEE

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

Ref No:- Date:-

Sub: Extension of Bank Guarantee No.for Rs. favouring yourselves, expiring onon account of M/s. in respect of LOA No. dated (hereinafter called original Bank Guarantee).

At the request of M/s., we..... Bank, branch office atand having its Head Office at do hereby extend our liability under the above mentioned Guarantee No. Datedfor a further period ofyears / months/ days from to expire on,except as provided above, all other terms and conditions of the original Bank Guarantee No. dated shall remain unaltered and binding.

Please treat this as an integral part of the original Bank Guarantee to which it would be attached.

“ Notwithstanding anything contained herein”

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

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

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

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

Dated this Day of20..... at

For[Indicate name of the Bank]

Signature.....

Full Name

Designation

Power Of Attorney No.....

Seal of the Bank.....

NOTE : i) SFMS advice as per details below.

Format for SFMS details

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	
12	Beneficiary's Bank/Branch name and address	Mandatory	
13	Sender to receiver information	Mandatory	
14	Purpose of Guarantee	Mandatory	Contract Performance/
15	Reference/Description of the	Mandatory	NIT No/LoA No

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

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 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 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 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.

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.

STANDARD TECHNICAL SPECIFICATION OF 8 METER 200 KG PSC POLES

	CONTENTS	PAGE
1.0	SCOPE	47
2.0	APPLICABLE STANDARDS	47
3.0	GENERAL TECHNICAL REQUIREMENTS	47
4.0	DESIGN REQUIREMENST	48
5.0	TESTS	50
6.0	TEST CERTIFICATES	51
7.0	PRE-DESPATCH INSPECTION	51
8.0	INSPECTION AFTER RECEIPT AT SITE	51
9.0	GUARANTEE	52
10.0	DRAWING AND DOCUMENTS	53
11.0	SCHEDULE OF DEVIATION	55

1.0 SCOPE

This specification covers the technical requirements of design, manufacturing, Testing, inspection before despatch at manufacturer's works packing, Loading, forwarding and unloading and erection at site/store PSC poles having length of 8 Meter working load of 200 Kg to ensure trouble free and efficient operation.

2.0 APPLICABLE STANDARDS

The poles shall comply with relevant provisions made in IS : 2905

3.0 GENERAL TECHNICAL REQUIREMENTS

The materials shall conform to this specification and be in accordance with the guaranteed particulars given. The Consumption of materials per PSC Pole with minimum limit indicated below:

- a) Cement 53 grade/43 grade 1.61/1.45 Bags. For concrete mix
- b) 4mm H.T. Steel wire 12 nos. - For tension wire.

The consumption indicated above shall be inclusive of variations inclusive rolling margin. The consumption of cement shall be inclusive of quantity required in finishing work. PSC pole under destruction test shall be to the Supplier's account. The quality of materials to be used for manufacturing of PSC poles shall be as under.

3.1 CEMENT:

The cement used in the manufacture of Pre-stressed concrete poles shall be ordinary hardening Portland cement conforming to IS: 269-1976 (Specification for rapid and low heat Portland cement) or IS: 8041 E 1978 (Specification for ordinary hardening Portland cement)

3.2 AGGREGATE:

Aggregates to be used for the manufacture of pre-stressed concrete poles shall conform to IS: 383 (Specification for coarse and fine aggregates from natural sources for concrete). The nominal maximum sizes of aggregates shall in no case exceed 12 mm.

3.3 WATER:

Water should be free from chlorides, sulphates, other salts and organic matter. Potable water will be generally suitable.

3.4 ADMIXTURE

Admixture should not contain Calcium Chloride or other chlorides and salts which are likely to promote corrosion of pre-stressing steel. The admixture shall conform to IS: 9103

3.5 PRE-STRESS STEEL

Pre-stressing steel wires including those used as un tensioned wires should conform to IS:1785 (Part-I) (Specification for plain hard-drawn steel wire for pre-stressed concrete, Part-I cold drawn stress relieved wire).IS:1785 (Part-II)

plain hard-drawn steel wire) or IS:6003 (Specification for indented wire for pre-stressed

It shall be free from splits, harmful scratches, surface flaw, rough, ages and imperfect edges and other defects likely to impair its use in pre-stressed concrete.

3.6 CONCRETE MIX

(also called design mix concrete) in IS: 1343-1980 (Code of practice for pre-stressed Concrete mix IS: 456 - 1978 (Code of practice for plain and reinforced concrete) subject shall be designed to the requirements laid down for controlled concrete concrete) and to the following special conditions:

- a) Minimum works cube strength at 28 days should be at least 420 Kg/cm².
- b) The concrete strength at transfer should be at least 210 Kg/cm².
- c) The mix should contain at least 380 Kg of cement per cubic meter of concrete.
- d) The mix should contain as low water content as is consistent with adequate workability. It becomes necessary to add water to increase the workability the cement content also should be raised in such a way that the original value of water cement ratio is maintained.
- e) The Bidder should obtain a concrete mix design for PSC Poles from a NABL certified laboratory and the same has to be approved from purchaser prior to any casting of poles.

3.7 DESIGN REQUIREMENTS

The poles shall be designed for the following requirements:

- a) The poles shall be planted directly in the ground with a planting depth as per IS: 1678. Wherever, planting depth is required to be increased beyond the specified limits or alternative arrangements are required to be made on account of ground conditions e.g. water logging etc., the same shall be in the scope of the bidder at no extra cost to OPTCL Utility. The bidder shall furnish necessary design calculations/details of alternative arrangements in this regard.
- b) The working load on the poles should correspond to those that are likely to come on the pole during their service life. The factor of safety for all pole 8.0 M poles, shall not be less than 2.5. The average permanent load shall be 40% of the working load. The F.O.S. against first load shall be 1.0. At average permanent load, permissible tensile stress in concrete shall be 30 kg/cm².
- c) At the design capacity in the longitudinal direction should be at least one fourth of that in the transverse direction. The maximum compressive stress in concrete at the time of transfer of pre-stress should not exceed 08 times the cube strength..
- d) The concrete strength at transfer shall not be less than half, the 28 days strengthened ensured in the design, i.e. $420 \times 0.5 = 210 \text{ kg/cm}^2$. For model check calculations on the design of poles, referred to in the annexure, a reference may be made to the REC "Manual on Manufacturing of solid PCC.

3.8 DIMENSIONS AND REINFORCEMENTS

The cross-sectional dimensions and the details of pre-stressing wires should fixing cross-arms and other fixtures should conform to the REC specification a) conform to the particulars given in the enclosed drawing. The provisions of holes

No.15/1979.

- b) All pre-stressing wires and reinforcement shall be accurately fixed as shown in the drawing and maintained in position during reinforcement as indicated in the drawings should be held in position by the use of stirrups which should go round all the wires.
- c) All wires shall be accurately stretched with uniform pre-stressed in each wire. Each

wire or group of wires shall be anchored positively during casing. Care should be taken to see that the anchorages do not yield before the concrete attains the necessary strength.

3.9 CONCRETE COVER

The cover of concrete measured from the outside of pre-stressing tendon shall be normally 20 mm.

3.10 WELDING AND LAPPING OF STEEL

The high tensile steel wire shall be continuous over the entire length of the tendon. Welding shall not be allowed in any case. However, joining or coupling may be permitted provided the strength of the joint or coupling is not less than the strength of each individual wire.

4.0 COMPACTING

Concrete shall be compacted by spinning, vibrating, shocking or other suitable mechanical means. Hand compacting shall not be permitted.

4.1 CURING

- i) The concrete shall be covered with a layer of sacking, canvass, Hessian or similar absorbent material and kept constantly wet up to the time when the strength of concrete is at least equal to the minimum strength of concrete at transfer. Thereafter, the pole may be removed from the mould and watered at intervals to prevent surface cracking of the unit the interval should depend on the atmospheric humidity and temperature. The pre-stressing wires shall be de-tensioned only after the concrete has attained the specified strength at transfer (i.e. 200 or 210 kg/cm² as applicable).
- ii) The cubes cast for the purpose of determining the strength at transfer should be cured, as far as possible, under condition similar to those under which the poles are cured.
- iii) The transfer stage shall be determined based on the daily tests carried out on concrete cubes till the specified strength indicated above is reached. Thereafter the test on concrete shall be carried out as detailed in IS: 1343 (code of practice).

a. LIFTING EYE-HOOKS OR HOLES

Separate eye-hooks or hoists shall be provided for handling the transport, one each at a distance of 0.15 times the overall length, from either end of the pole.

Eye-hooks, if provided, should be properly anchored and should be on the face that has the shorter dimension of the cross-section. Holes, if provided for lifting purpose, should be perpendicular to the broad face of the pole.

b. HOLES FOR CROSS ARMS ETC

Sufficient number of holes shall be provided in the poles for attachment of cross arms and other equipment.

c. STACKING & TRANSPORTATION

Stacking should be done in such a manner that the broad side of the pole is vertical. Each tier in the stack should be supported on timber sleeper located as 0.15 times the overall length, measured from the end. The timber supported in the stack should be aligned in vertical line.

d. EARTHING

Earthing shall be provided by having length of 8 / 6 SWG GI wire embedded in Concrete during manufacture and the ends of the wires left projecting from the pole

wire shall not be allowed to come in contact with the pre-stressing wires to a length of 100mm at 250 mm from top and 1000 mm below ground level. Earth

6.0 EMBOSSING / MARKING

Embossing of poles shall be clearly & indelibly marked with the following particulars by engraving properly at a height of 3 metres from the bottom end so as to be easily readable after erection and Marking should not be painted.

- a) Serial number of pole.
- b) Date, month and year of manufacturing
- c) Name/mark of manufacturer.
- d) Length and working load 8 M/200 Kg.

7.0 A strip of 30-40 mm shall be painted on one side (transverse face) of the pole at a planting depth i.e 1500 mm from bottom, with oil paint of red colour in such a manner that the red strip shall be visible above the ground.

7.1 TEST

Following tests shall be necessarily conducted on 8Mtr. 200Kg PSC Pole, witnessed by the purchaser/his authorized representative are:

7.2 CUBE TEST:

- i. Total 3 Nos. Cubes of 150mm X 150mm X 150mm size concrete shall be casted on regular basis whenever there will be a casting for PSC Poles. The same cubes shall be immersed into water after 24hrs of cast and shall be made available for testing on 28th days past casting in accordance with Indian Standard specification at Supplier's own expense. The mix for concrete adopted shall be such as to give cube strength not less than 210Kg/cm² at release (after 3 days) and 420 Kg/cm² (M42) after 28 days.
- ii. Cube testing machine shall always be kept in the working condition and regular cube tests shall be taken and results be recorded in the registers duly signed by engineer-in -charge and representative of the Supplier.
- iii. Valid 3rd Party Calibration certificate for the machine must be produced on demand during inspection.

7.3 TRANSVERSE STRENGTH TEST

- i. Poles made from ordinary Portland cement shall be tested only on the completion of 28 days and poles made from rapid hardening cement with steam curing on the completion of 14 days after the day of manufacture.
- ii. The pole may be tested in either horizontal or vertical position. If tested in horizontal position, provision, shall be made to compensate for the overhanging weight of the pole. For this purpose, the overhanging portion of the pole may be supported on movable trolley or similar device.
- iii. The pole shall be rigidly supported at the butt end at a distance equal to the agreed depth of planting i.e., 1.5 meter.
- iv. Load shall be applied at a point 600 mm from the top of the pole and shall be steadily and gradually increased to the design value of the transverse load at the first crack.

The deflection at this load shall be measured.

- v. A pre-stressed concrete pole shall be deemed not to have passed the test if visible cracks appear at a stage prior to the application of the designed transverse load for the first crack.
- vi. The load shall then be reduced to zero and increased gradually to a load equal to the first crack load plus 10% of the minimum ultimate transverse load and held up for 2 minutes. This procedure shall be repeated until the load reached the value of 80 percent of the minimum ultimate transverse load and thereafter load until failure occurs. Each time the load is applied, it shall be hold for 2 minutes. The load applied to pre-stressed concrete pole at the point of failure shall be measured to nearest five kgs.
- vii. The poles shall be deemed not to have passed the test if the observed ultimate transverse load is less than the designed ultimate transverse load.

7.4 PHYSICAL VERIFICATION TEST

The following tolerances shall be allowed during physical verifications:

- i. Overall length of PSC poles. ± 15 mm
- ii. Top and bottom dimension. (Breadth and depth of PCC poles) ± 3 mm
- iii. Clear concrete cover over HT steel wires (Average of measurements at three sections). - 2 mm
- iv. Uprightness or straightness of the PCC poles 0.5 %
- v. Internal dia of eye hook + 20 mm and – 5 mm
- vi. Dia of holes ± 1 mm
- vii. Diameter of GI wire as per IS:280/1979 $\pm 2.5\%$
- viii. Diameter of MS rod for eye hook as per 1786/1966 $\pm 4\%$ Higher dimensions of poles shall attract no penalty / deduction as it will not be considered.

8.0 TEST CERTIFICATES

The bidder shall furnish test certificates as mentioned above. In the event of any discrepancy in the test reports, i.e. any test report not acceptable same shall be carried out without any cost implication to OPTCL.

9.0 PRE-DESPATCH INSPECTION

1. Poles shall be subject to inspection by a duly authorized representative of OPTCL.
2. Inspection may be made at any stage of preparations of Poles. Bidder shall grant free access to the places of manufacture to OPTCL representatives at all times when the work is in progress.
3. Material shall be dispatched after DI is issued by OPTCL.

10.0 INSPECTION AFTER RECEIPT AT SITE

The material received at OPTCL, Odisha site locations shall be inspected for acceptance and shall be liable for rejection, if found different from the reports of the pre-dispatch inspection shall comprise of :

- a) Verification of offered quantity as per packing list.
- b) Visual inspection for shape, workmanship and finishing of the PSC poles.
- c) Checking of dimensions as per the GTP/ Specifications.

GUARANTED TECHNICAL PARTICULARS

Sr. No.	Particulars	Unit	Requirements
1	Name of the Manufacturer & Address		To be specified
2	Type of pole		Pre- Stress Concrete
3	Factor of Safety		2.5
4	Overall Length of Pole Meters	Mtr.	8
5	Working Load Kg	Kg	200
6	Point of application of load		600 mm below from top
7	Depth of plantation	mm	1500
8	Overall Dimensions		
i)	Bottom Depth	mm	290
ii)	Top Depth	mm	145
iii)	Breadth	mm	90
9	Reinforcement Detail:		
i)	Diameter of Pre-stressing wire	mm	4
ii)	No. of Tensioned wires	Nos.	12
iii)	No. of Un-tensioned wire	Nos.	2
iv)	Length of each Pre-stressing wire	Mtr.	8
v)	Length of un-tensioned wire	Mtr	3.95
v)	Ultimate Tensile Strength	Kg/cm ²	17500
vi)	Steel Quantity	Kg/pole	10.25
	Length of earth wire	Mtr	6.5
10	Concrete Detail		
i)	Cement Type		Ordinary Portland Cement
	Grade		43/53 Grade
	Type of Poles		M 42
ii)	Concrete mix strength	Kg/cm ²	a) 210 Kg/cm ² at time of transfer of prestress (min)
		Kg/cm ²	b) 420 Kg/cm ² at age of 28 days (min)
iii)	Concrete Quantity	Cubic meter/pole	0.157 m ³
iv)	Concrete covering to wires	mm	22
11	GI earthing wire	SWG	6
12	Weight of PSC Pole	Kg	380
13	GI Earth wire with top & bottom 200mm(min) projection outside		250 mm (From top) 1750 (from bottom)
14	18 mm holes at a distance from top		200,400 mm
15	Standard confirming to:		
	Pole		IS: 1678/2000
	Cement		IS: 8041
	Aggregates		IS: 383/1970
	Pre-stressing wire		IS: 6003/1983
	Concrete Mix		IS: 456/2000
16	Tolerance Dimensions		a: +/- 15 mm

11.0 GUARANTEE:

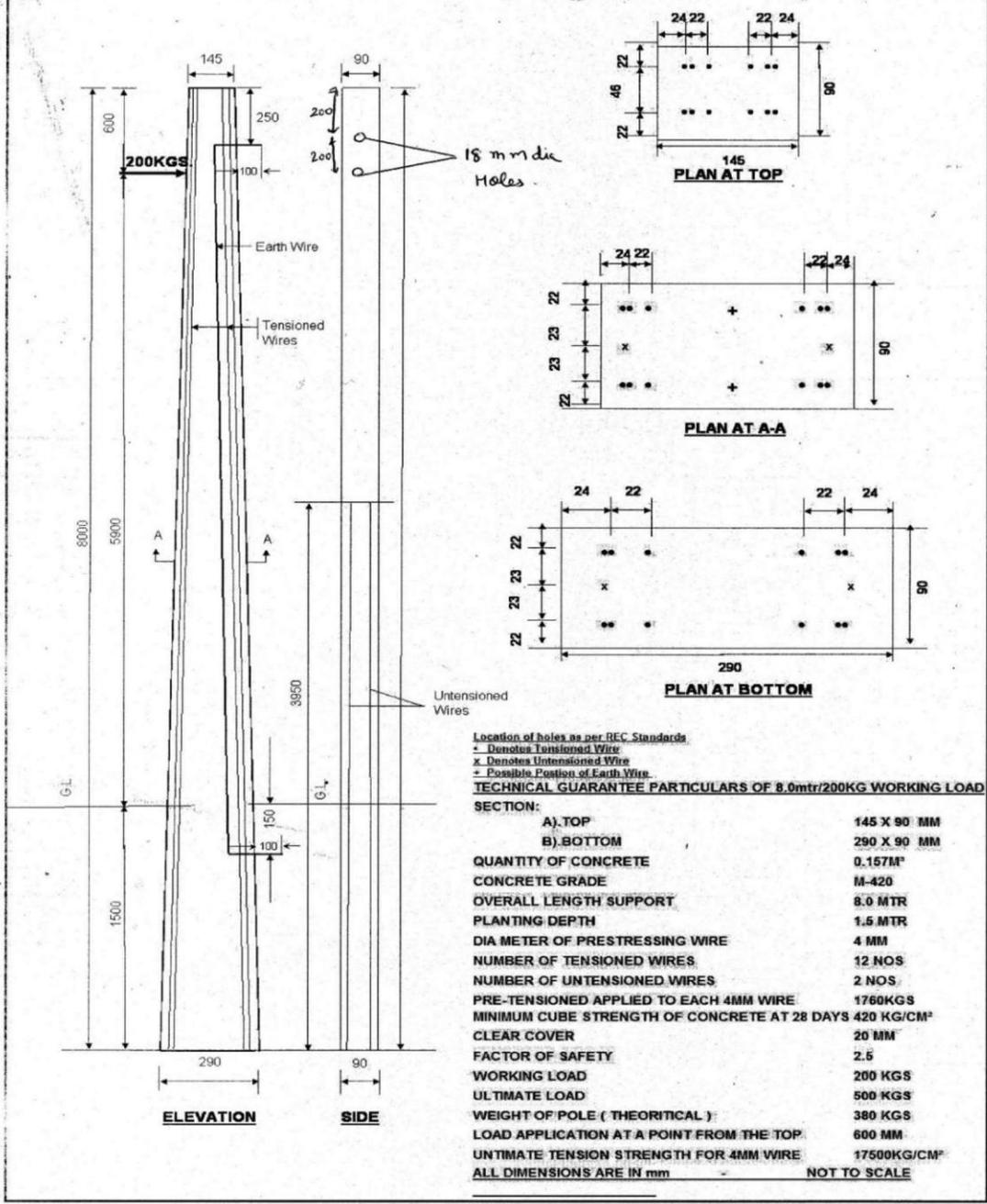
1. Bidder shall stand guarantee towards materials, workmanship & quality of process/ manufacturing of Poles under the contract for due and intended performance of the same, as an integrated product delivered under this contract.
2. In the event any defect is found by the Company up to a period of last 90 days from the date of manufacturing or 30 days from the date of last supplies made under the contract, whichever is later.
3. Bidder shall be liable to undertake to replace such defects at his own costs. within mutually agreed timeframe, and to the entire satisfaction of the Purchaser, failing which the Purchaser will be at liberty to blacklist the bidder for future work.

12.0 TESTING DURING FACTORY INSPECTION:

Following testing for PSC poles shall be carried out as per relevant IS during factory inspection:

1. Dimension Test
2. Transverse Strength Test
3. Cube test

**REINFORCEMENT DETAILS OF 8.0M/200KG
PRESTRESSED CEMENT CONCRETE POLES (FACTOR OF SAFETY = 2.5)**



Location of holes as per REC Standards
 + Denotes Tensioned Wire
 x Denotes Untensioned Wire
 • Possible Position of Earth Wire

TECHNICAL GUARANTEE PARTICULARS OF 8.0mtr/200KG WORKING LOAD

SECTION:	
A).TOP	145 X 90 MM
B).BOTTOM	290 X 90 MM
QUANTITY OF CONCRETE	0.157M ³
CONCRETE GRADE	M-420
OVERALL LENGTH SUPPORT	8.0 MTR
PLANTING DEPTH	1.5 MTR
DIA METER OF PRESTRESSING WIRE	4 MM
NUMBER OF TENSIONED WIRES	12 NOS
NUMBER OF UNTENSIONED WIRES	2 NOS
PRE-TENSIONED APPLIED TO EACH 4MM WIRE	1760KGS
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS	420 KG/CM ²
CLEAR COVER	20 MM
FACTOR OF SAFETY	2.5
WORKING LOAD	200 KGS
ULTIMATE LOAD	500 KGS
WEIGHT OF POLE (THEORETICAL)	380 KGS
LOAD APPLICATION AT A POINT FROM THE TOP	600 MM
UNTIMATE TENSION STRENGTH FOR 4MM WIRE	17500KG/CM ²
ALL DIMENSIONS ARE IN mm	NOT TO SCALE

21.0 SCHEDULE OF DEVIATIONS (TO BE ENCLOSED WITH THE BID)

All deviations from this specification shall be set out by the Bidders, clause by Clause in this schedule. Unless specifically mentioned in this Schedule, the tender shall be deemed to confirm the purchaser's specifications:

S.No.	Clause No.	Details of deviation with justifications

We confirm that there are no deviations apart from those detailed above.

Seal of the Company:

Signature

Annexure-I

			Total	30	220
SI NO	District	Block	LGD	Location	PCS Pole
1	BARGARH	AMBABHONA	116334	BANJIPALI	38
2	BARGARH	AMBABHONA	116336	DUNGRI	
3	BARGARH	AMBABHONA	116340	LAKHANPUR	
4	BARGARH	AMBABHONA	116343	UTTAM	
5	BARGARH	AMBABHONA	275616	BUNGAPALI	
6	BARGARH	AMBABHONA	275662	KARLA	
7	BARGARH	AMBABHONA	275664	KHOLA	
8	BARGARH	AMBABHONA	116333	AMBABHONA	4
9	BARGARH	AMBABHONA	116337	KANDAPALA	18
10	BARGARH	AMBABHONA	116339	KUMBHO	
11	DEOGARH	BARKOTE	275017	GOLABANDHA	23
12	DEOGARH	BARKOTE	275018	SAIDA	
13	KORAPUT	BORIGUMMA	119740	DENGAPADAR	4
14	KORAPUT	JEYPORE	119779	BADAJUINA	10
15	KORAPUT	JEYPORE	119783	DHANPUR	
16	KORAPUT	JEYPORE	119789	KALIAGAM	
17	KORAPUT	JEYPORE	119793	PHAMPUNI	
18	KORAPUT	KORAPUT	119804	LANKAPUT	4
19	KORAPUT	LAXMIPUR	119855	BHITARAGADA	60
20	KORAPUT	LAXMIPUR	119857	CHAMPI	
21	KORAPUT	LAXMIPUR	119858	GOUDAGUDA	
22	KORAPUT	LAXMIPUR	119859	KAKIRIGUMMA	
23	KORAPUT	LAXMIPUR	119860	KUSUMGUDA	
24	KORAPUT	LAXMIPUR	119863	ODIAPENTHA	
25	KORAPUT	LAXMIPUR	119864	PANCHADA	
26	KORAPUT	LAXMIPUR	119866	TOYAPUT	
27	KORAPUT	LAXMIPUR	119867	TUNPAR	
28	SONEPUR	DUNGURIPALI	121456	BEHERAMAL	4
29	SONEPUR	DUNGURIPALI	121468	SAMLEICHUA	10
30	SONEPUR	DUNGURIPALI	121464	LINGAMARNI	
31	SONEPUR	SONEPUR	121476	CHHAKORMAL	8
32	SONEPUR	SONEPUR	121482	LACHHIPUR	
33	SONEPUR	ULLUNDA	121505	BISIPADA	3
34	SONEPUR	ULLUNDA	121517	RAXA	30
35	SONEPUR	ULLUNDA	121515	NIMNA	
36	SONEPUR	ULLUNDA	121514	MUNDAGHAT	
37	SONEPUR	TARBHA	121487	BADBHAINRO	4