



ODISHA POWER TRANSMISSION CORPORATION LTD.
(A Government of ODISHA Under Taking)
Regd. Office: Janpath, Bhubaneswar-751022, Odisha
OFFICE OF THE GENERAL MANAGER: ELECT.
EHT (O&M) CIRCLE: CHAINPAL
AT/PO: CHAINPAL COLONY, PIN-759104, and DIST: ANGUL (ODISHA)
[CIN:U40102OR2004SGC007553](#)
Email: ehtm.cle.chp@optcl.co.in

TENDER SPECIFICATION NO. CHP-18/2016-2017

FOR

SUPPLY OF ACDB (ALTERNATE CURRENT DISTRIBUTION BOX) FOR
SWITCHYARD OF GRID S/S, MERAMUNDALI UNDER EHT (O&M) CIRCLE,
CHAINPAL

Request for online tender documents:-	From dt-21.11.2016 (10.00 Hrs) to dt-06.12.2016(12.30 Hrs)
Last date of submission of online tender: -	up to dt-06.12.2016(17.00 Hrs)
Date of opening of Tender: -	07.12.2016(11.30 Hrs)

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PART-1

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[SECTION-I]

TENDER CALL NOTICE



ODISHA POWER TRANSMISSION CORPORATION LTD.
(A Government of ODISHA Under Taking)
Regd. Office: Janpath, Bhubaneswar-751022, Odisha
OFFICE OF THE GENERAL MANAGER: ELECT.
EHT (O&M) CIRCLE: CHAINPAL, AT/PO: CHAINPAL COLONY,
DIST: ANGUL (ODISHA), Pin-759104, Email-ehm.cle.chp@optcl.co.in
CIN:U40102OR2004SGC007553

e-TENDER NOTICE NO. CHP-18 / 2016-17

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD General Manager, EHT (O&M) Circle, Chainpal, invites Tenders from reputed Bidders in **One part** bidding system for **Supply of ACDB (Alternate Current Distribution Box) for Switchyard of Grid S/S, Meramundali under EHT (O&M) Circle, Chainpal.** The interested bidders would be required to enroll themselves on the tender portal www.tenderwizard.com/OPTCL. Complete set of bidding documents are available at www.tenderwizard.com/OPTCL from **21.11.2016 (10.00 Hrs) up to 06.12.2016 (12.30 Hrs).** Interested Bidder may visit OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL for detail specification.

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 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 submitted according to the instruction, stipulated above. The participants to the tender should be registered under IT Act / Service tax Act. So the interested bidder followed the above website for registration. **For any e-tendering assistant contact help desk number mentioned below. (Bangalore – 080- 40482000.)**

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

NOTICE INVITING TENDER

For and on behalf of the ODISHA POWER TRANSMISSION CORPORATION LTD., the undersigned invites bids under **One-part** bidding system in e- tendering mode only as per the following details. The bidders can view the tender documents from website free of cost.

The bidders who want to submit bid shall have to pay a nonrefundable amount **including VAT @ 5%) towards Tender Paper** cost, in the form of DD only, drawn in favour of EHT (O&M) Circle Chainpal, Payble at UCO Bank, TTPS Branch (In case the B.D made from any other nationalized bank payable at any clearing branch at Talcher/Angul will be allowed, But the bidders have to deposit the collection fee (Bank transaction fee) along with the paper cost. The collection fee & Paper cost is Nonrefundable) at the office of the undersigned on or before the opening of tender.

The bidders shall have to pay EMD amount as above & submit the copy of proof/payment documents at the office of the undersigned on or before the opening of tender.

The bidders shall have to pay a nonrefundable amount in the table below to K.S.E.D.C.Ltd, towards the tender processing fee through e-payment gateway.

Sl. No	Tender Specification No./Lot	Description of work/Item	INDIAN RUPEES				
			Manufacturer	Estimated Cost	Earnest Money Deposit.	Cost of Tender Paper	Tender Processing Fee.
1	CHP-18/2016-17 (LOT-1)	<i>Supply of ACDB (Alternate Current Distribution Box) for Switchyard of Grid S/S, Meramundali under EHT (O&M) Circle, Chainpal</i>	More than 5 years	11,80,543.00	11,806.00	6,300.00	1358.00

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.

Detail Documents of bidders required: AS STIPULATED IN SECTION-II, OF THE TENDER SPECIFICATION.

N.B:-

- i) *All the materials required for Item shall be of good quality relevant to concern IS. Engineer in charge shall ensure the quality of material used in the Item to be supplied.*
- ii) *The Rate quoted by the bidder will be judged as per the Estimate and market price.*
- iii) *The Bidder must fill the price bid including all Taxes and Duties. So the bidder has to submit the bid, deposit the EMD, Paper cost & Tender processing fee separately as described above.*

GENERAL MANAGER (Ele)
EHT (O&M) CIRCLE, CHAINPAL

Energy is precious. Save it.

[SECTION-II]

INSTRUCTION TO BIDDER

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 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 submitted according to the instruction, stipulated above. The participants to the tender should be registered under IT Act / Service tax Act.

1. For all the users it is mandatory to procure the Digital Signatures.

2. Contractors / Vendors / Bidders / Bidders are requested to follow the website www.tenderwizard.com/OPTCL for Registration:

3. **For any e-tendering assistant contact help desk number mentioned below.**

• **Bangalore – 080- 40482000.**

2. Division of Specification.

- | | |
|-----------------|--|
| 1. SECTION –I | :TENDER CALL NOTICE |
| 2. SECTION –II | :INSTRUCTION TO THE BIDDER |
| 3. SECTION –III | :GENERAL TERMS & CONDITION OF CONTRACT |
| 4. SECTION –IV | :TECHNICAL & PRICE BID |
| 5. SECTION –V | :LIST OF ANNEXURE |

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

The Purchaser may alter the quantities of Item 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 and vice versa. Orders may also be split among more than one bidder for any particular item, if considered necessary in the interest of the OPTCL.

4. 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.

5. 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.

6. Earnest money deposit:

The Tenders shall be accompanied by Earnest Money deposit of value specified in the notice inviting tenders **against each LOT**. Tenders without the required EMD will be rejected out rightly.

The earnest money deposit shall be furnished in shape of

- (i) **DD** in favour of EHT (O&M) Circle, Chainpal, (In case the B.D made from any other nationalized bank payable at any clearing branch at Talcher/Angul will be allowed, But the bidders have to deposit the collection fee(Bank transaction fee) along with the paper cost. The collection fee & Paper cost is Nonrefundable)

NOTE:-

- (i) No adjustment towards EMD shall be permitted against any outstanding amount with the **ODISHA POWER TRANSMISSION CORPORATION LTD.**
- (ii) In the case of un- successful bidder, the EMD will be refunded after finalization of the tender. In the case of successful Bidder, this will be refunded only after award of contract & on submission of BG/DD as security deposit.
- (iii) Suits, if any, arising out of this clause shall be filed in a Court of law to which the jurisdiction of High Court of ODISHA extends.
- (iv) EMD will be forfeited if the bidder fails to accept the purchase order and/or work order issued in his favour or to execute the order, placed on them.
- (v) Tenders not accompanied by Earnest Money shall be disqualified.

7. Validity of the Bids: -

The tenders are requested to keep the validity of their offer for a period of **180** days from the date of opening of the tender and Rate remains same throughout the Validity period failing which the tenders will be rejected.

8. PRICE: -

The bidders are advised to quote their rate as per the price schedule attached with this specification and shall remain firm inclusive of all taxes & duties, labour charges etc. within the validity of the tender. However Service tax will be paid extra as per Govt. Prevailing rule.

9. Bidders to be fully conversant with the clauses of the Specification:

Bidders 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 bidder may seek clarification in writing from the GM EHT (O&M) Circle, Chainpal, This, however, does not entitle the bidder to ask for time beyond due date, fixed for receipt of tender.

10. Documents to Accompany Bids.

Bidders are required to submit tenders in the following manner:

- [i] Declaration Form (duly signed) to be uploaded in .pdf format.

- [ii] Earnest Money (scanned copy of NEFT Transaction proof is to be uploaded)
- [iii] Abstract of Terms & conditions in prescribed proforma. To be keyed in, in the bid sheets provided.
- [iv] General Terms & Conditions of contract of the Specification.(All the required documents are to be uploaded.)
- [v] Data on past experience as per the Specification. (Scanned copy to be uploaded)
- [vi] Manufacturer license, Service Tax/VAT Registration certificate & permanent account number [PAN] of the firm is required under Income tax Act. (Scanned copy to be uploaded).
- [vii] Any other document required, is to be uploaded.
- [Viii] Schedule of prices in the prescribed proforma in the price bid sheet provided in .xls format.

11. Conditional Offer:

Conditional offer shall not be accepted.

13. Qualification of Bidder:

The bidder must have the following documents to qualify.

- i) Manufacturer (Manufacturer more than 5Years).
- ii) Valid PAN/ TIN.
- iii) VAT Regtd./VAT CC
- iv) Experience Certificate
- v) Service Tax Registration Certificate (As applicable)

14. CONSIGNEE:-

The Assistant General Managers/Managers/Dy Managers in charge of Grid S/S Meramundali will be the consignee for this contract.

15. PAYING OFFICER:-

The Unit Head of EHT (O&M) Division, Meramundali is the paying officer for this contract.

16. 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) Notice inviting tender shall form part of this specification.
- (iii) The EMD, if any, shall be returned to the unsuccessful bidders.
- (ix) **The bidder must submit the EMD amount, cost of tender document and Tender processing fee in a sealed cover envelope super scribing the tender specification number, Tender Notice No & Date opening of tender clearly on the envelope cover. The said envelope is to be submitted in the office of the purchaser on or before the last date and time of submission of tender. Else the bid will be out rightly rejected.**

[SECTION-III]

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

1.0 Scope of the contract:

Supply of ACDB (Alternate Current Distribution Box) for Switchyard of Grid S/S, Meramundali under EHT (O&M) Circle, Chainpal.

N.B:- Any Engineer/Committee of OPTCL assigned/framed by undersigned must visit the manufacturer workshop before finalization of Tender. Based on the report of Engineer/Committee of OPTCL the bid will be finalized.

2.0 Definition of terms:

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

- 2.1 “The Purchaser” shall mean the General Manager, EHT (O&M) Circle, Chainpal for and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., Bhubaneswar.
- 2.2 “The Engineer” shall mean the Engineer appointed by the Purchaser for the Purpose of this contract.
- 2.3 “Purchaser’s Representative” shall mean any person or persons or consulting firm appointed and remunerated by the Purchaser to supervise, inspect, test and examine workmanship and materials of the equipment to be supplied.
- 2.4 “The Contractor” shall mean the bidder whose bid has been accepted by the purchaser and shall include the bidder’s executives, administrators, successors and permitted assignees.
- 2.5 “Equipment” shall mean and include all machinery, apparatus, materials, articles to be provided under the contract by the Contractor.
- 2.6 “Contract Price” shall mean the sum named in or calculated the bid.
- 2.7 “General Condition” shall mean these General Terms and Conditions of Contract.
- 2.8 The Specification” shall mean both the technical as well as commercial parts of the specification annexed to or issued with GTCC and shall include the schedules.
- 2.9 “Month” shall mean “Calendar month”.
- 2.10 Writing” shall include any manuscript, type written, printed or other statement reproduction in any visible form and whether under seal or under hand.
- 2.11 “FOR Destination costs” shall mean the cost at our work site. The cost is inclusive of all taxes & duties etc. , but excluding Service tax.
- 2.12 The term “Contract document” shall mean and include GTCC, specifications, form of tender, Notice Inviting Tender, covering letter, schedule of prices or the final General Conditions, any special conditions, applicable to the particular contract.
- 2.13 Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian Contract Act, failing that in the ODISHA General Clauses Act.

3. **Price:** -(a) The price quoted should be firm, F.O.R. destination inclusive of freight, Insurance, Packing, Forwarding charges inclusive discount if any.
(b) Taxes, if any shall be mentioned extra. The bidder may quote rate in respect of different make Materials as per scheduled.
4. **Penalty for Delay in Delivery:** If the supplier shall fail to deliver the materials within the delivery period as stipulated under clause **No.7 (Section-III)** of this Tender document or any extension granted there to, the purchaser shall recover from the supplier penalty for a sum of half percent (i.e. 0.5 percent) of the contract price for each calendar week or part thereof of delay. However the total amount of penalty shall not exceed 5% (five percent) of the contract/undelivered items price. Materials will be deemed to have been delivered only when all the component parts are also delivered. If certain components are not delivered in time, the supply will be treated as delayed until such time the missing/ undelivered parts are delivered.
5. **Language and measures:**
All documents pertaining to the contract including specifications, schedule, notices, correspondence, operating and maintenance instructions or any other writing shall be written in English language. The metric system of measurement shall be used exclusively in this contract.
6. **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 OPTCL. Orders may also be split up between different Bidders on individual merits of the Bidder. The Purchaser has exclusive right to alter the quantities of work at the time of placing final work order.
7. **Supply/Delivery of Materials:**
The Material should be supplied within 45 days of the award of the contract at destination. Failing which purchase order shall be liable for cancellation with forfeiture of Earnest money/ Security Deposit. However early delivery shall be preferred
8. **Force Majeure:**
The Contractor 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 Contractor shall within Ten (10) days from the beginning of delay on such account notify the purchaser in writing of the cause of delay. The purchaser shall verify the facts and grant such extension, if facts justify.
9. **Extension of time:-**
If the delivery of materials is delayed due to reason beyond the control of supplier, the supplier shall without delay give justification. The purchaser on receipt of such notice may agree to extend the contract delivery date if reasonable but without prejudice to other terms and conditions of this contract.

10. DOCUMENT VALIDITY:

Scanned copies of PAN/TIN, Service Tax Registration no.(Optional) & Manufacturer with VAT CC/VAT Regd. valid on the date of opening of tender should be uploaded along with tenders, failing which the tender will be rejected. The contractor or their authorized representatives should produce the original documents for verification within 10 days from the date of opening of tender. Those who fail to produce the same and found not to be valid at the time of tender opening, their tenders will be rejected.

11. Security deposit against 100% payment:

The bidders whose offer qualifies for acceptance will be awarded order for the contract, the bidder shall have to deposit security amount equal to 10% (ten percent) of contract value in shape of bank draft/Bank Guarantee drawn in favour of Paying officer, of OPTCL within 15 days as per proof of tender acceptance and valid for a period of 14 months from the date of completion of contract with due verification. The security deposit shall be released after successful completion of **Guarantee period** is over on receipt of application for this purpose and after adjustment of any dues. No Interest shall be paid to the bidder towards the security deposit so deposited by the Bidder. In case of Non fulfillment of contractual obligation by the bidder, the same so deposited shall be forfeited without notice to the bidder. The Security Deposit should be submitted separately for each Division.

12. Terms of Payment (100% payment against Security Deposit) .

100 % Payment with taxes etc. shall be made within 30 days after receipt of materials in full and in good condition & verification thereof by the consignee subject to availability of funds from Head office.

13. Transit Insurance: Insurance of materials is to be done by the supplier at their own cost. The responsibility of delivery of the materials at destination in good condition rests with the supplier. Any claim with the insurance company Railway authority/ Road transport authorities arising due to loss or damage in transits has to be settled by the supplier. The supplier shall undertake free replacement of materials damage or lost which will be reported by the consignee within 30 Days of the receipt of the materials at destination without waiting for the settlement of the claims with the carriers and underwriters.

14. Validity.

Prices and conditions contained in the offer should be kept valid for a minimum period of 6 months from the date of opening of the tender, failing which the tender shall be rejected.

15. Despatch Instructions: The materials should be securely packed and dispatched by Rail/ road transport at locations as mentioned below to the consignee. The cost of transportation will be borne by the supplier.

16. Free Replacement: Free replacement of materials lost/ damaged due to transit shall be made immediately on receipt of the intimation from the consignee / paying Officer without awaiting for settlement of the claim of bidders with Railway/ Lorry/ Insurance Company.

17. GUARANTEE:- The materials covered under this contract should be guaranteed for trouble free and satisfactory performance against any defect in design, materials and workmanship for a Period of 18 month from the date of dispatch or 12 month from the date of installation of the material, whichever is earlier. So the Firm has to submit Guarantee Certificate in triplicate to the undersigned for approval before release of payment. Any defect noticed during this period should be rectified / replaced by the firm free of cost provided such defects are due to faulty design, bad workmanship or bad materials used. ***The replaced materials should also have similar guarantee.***

18. 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.

19. Correspondences.

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

Official Address of the Parties to the Contract

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

- [i] **Purchaser:** General Manager EHT (O&M), Circle, OPTCL, Chainpal,(Odisha)

Email id:- ehtm.cle.chp@optcl.co.in

- [ii] **Contractor:** Address

Telephone No.

Fax No.

20. Outright Rejection of Tenders

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

- [i] The bidder shall submit the bid in electronic mode only and shall submit the cost of tender document and Tender processing fee on or before the date and time of opening of the bid.
- [ii] The Tender shall not be submitted telegraphically or by FAX.
- [iii] The prescribed EMD/Paper Cost/Tender processing fee shall be submitted on or before the last date and time of submission of the bid.
- [iv] The Tender shall be kept valid for a minimum period of **06Months** from the date of opening of tender.
- [v] 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.
- [vi] The Bidder should quote 'FIRM' price only and the price should be kept valid for a minimum period of **06Months** from the date of opening of the tender.

21. DEVIATION FROM SPECIFICATION:

It is in the interest of the Bidders to study the Specification, works etc. specified in the tender should thoroughly before tendering so that, if any deviations are made by the Bidders the same are prominently brought out on a separate sheet under heading "Deviations".

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

22. CONTRACTOR TO INFORM HIMSELF FULLY:

The Contractor shall examine the instructions to Bidders, 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 additional allowances except as otherwise provided therein will be levied. The owner shall not be responsible for any misunderstanding or incorrect information obtained by the Contractor other than the information given to the Contractor in writing by the owner.

[SECTION-IV]

TECHNICAL SPECIFICATION & PRICE BID

TECHNICAL SPECIFICATION:-

A. AC DISTRIBUTION BOARD FOR 220KV BAY

The purposes of these Distribution boards are to be installed in the switch yard at different locations, for power supply to field equipment. There shall be two incomer MCCB as source I and source II. There shall be 2 Sets of Bus bars one two sources with a bus-coupler MCCB and 16 Nos. of AC out lets MCB (8 nos from each bus) both 3 phase with neutral and single phase, which will be taken to all the equipment and equipment marshaling boxes.

SWITCH BOARD DESIGN: - The switchboard shall be dust & vermin proof and suitable for use in tropical climate powder coated by Siemens grey color. Distribution boards are of outdoor type and to be fabricated out of 2 mm GI sheet steel. The body of the boxes shall have sufficient re- enforcement with suitable size of channels, complete with channel base for fixing these boxes on plinths. The boxes should confirm to IP-55 degree of protection. Preference shall be given to those who have successfully conducted type test as mentioned above.

The Box shall have double door and a door handle conforming to **general quality conditions. provision for manual locking arrangement shall be provided.** The roof of the box shall be slightly slanting both sides as per drawing with an overhang of 50 mm to all side. **Any compromise on quality of the Box and its accessories shall be liable for rejection.** The nuts, bolts, washers used in the box shall be galvanized to avoid rusting. The door hinges shall not be visible from outside. The box shall have two nos. of solid Earthing points on either side with an arrangement for sufficient ventilation.

The distribution cabinet should be with provision for lighting inside the cabinet. The internal illumination for working should be of adequate intensity LED lamps.

WIRING :- The wiring shall be complete in all respect. All wiring shall be complete up to the terminal blocks. Wiring shall be carried out with suitable size flexible, heat resistant, switchboard wires. PVC insulated with 2.5 sq.mm. stranded copper conductors. Each wire shall be identified at both ends with wire destinations numbered ferrules in accordance with wiring diagram. Wires shall not be spliced or tapped between terminal points. Each wire shall be continuous and there shall not be any joint within itself. Wires shall be neatly bunched and adequately supported so as to prevent sagging and strain on termination. The wiring shall be of 1.1 KV grade. Terminals should be so mounted that the appropriate wire may be connected without impairing the normal performance of the unit.

The terminal blocks shall be readily accessible and those shall be rust proof and of best quality. Terminal block connector built from cells of molded dielectric and brass-stud inserts shall be provided. The connection stud shall project at least 6 mm. from the lock nut surface. All blocks shall be shrouded of easily removable shrouds molded of dielectric material of non-breakable type.

Each terminal for out going feeders shall be capable for connection of 2 Nos. 7/0.029" copper wires at one end without any damage to the connector or any looseness of connection.

Indicating lamps shall be provided for both incomer shall be LED type provided with suitable safety resistor, and colored dust-tight lens. Lamps shall be of very low wattage consumption and heat generated due to continuous burning shall not deteriorate lamp cover. The lamp holders shall preferably be screwed type.

BUS BARS:- The box shall have provision of bus bars of Electrolytic Copper mounted on epoxy resin cast bus insulators fixed on suitable fixing arrangement. The bus bars shall be liberally sized for the specific current ratings (both short circuit and continuous currents). The size of the bus bars shall be such that the current density is not more than 1.75 A per sq.mm. at rated capacity. Necessary precaution shall be taken to avoid bimetallic action where copper conductors connected to the aluminum.

The bus bars shall be conveniently placed so as to provide adequate clearance between phases, phases to ground and from the body of the box conforming to I.E. Rules applicable for L.T. supply. The bus and connections shall be so supported as to be capable of safety withstanding stresses due to maximum short circuit current and also take care of any thermal expansion.

There should be Heat Shrinkable bus bar insulation tubing of Red Yellow-Blue & Black. (not less than 3.0kv) should be applied on the Bus-Bars. There shall be provision for two sets of Bus Bar for each incomer and outgoing MCBs

MCCB :- MCCM shall be of reputed make M/s L&T, M/s Siemens, M/s Schneider, and M/s ABB. 100 A, with Over Current Setting 80% to 100% for Incomer shall conform to IS – 13947 (pt – 2) / 1993 with latest amendment. 35 mm² , 3 1/2 core cable

The in-coming cable should be connected to the terminals of the M.C.C.B. with Bi-metallic lugs preferably of Usha Martin make duly crimped with Die-less crimping tools. There should be a metallic/heat resistant insulating barrier between the individual M.C.C.Bs so that the heat generated during any fault inside the Box should not pass to the other M.C.C.Bs.

The M.C.C.Bs. to be mounted with Distribution Boxes shall have been type tested as per IS at Govt. approved /NABL accredited laboratory. The bid shall contain type-test reports conducted for the offered materials, within five years before the date of opening of the tender.

SPACE HEATERS:- The Distribution boards shall be provided with space heaters rated for 240 volts single phase A.C. with ON/OFF switch. The wattage of the heater shall be such as to keep 10 deg. C. above the ambient temperature during rainy season but the temperature shall not damage the wiring.

CABLE TERMINATION:- Distribution boards shall be designed to facilitate cable entry from the bottom of the switchboards. Sufficient space shall be provided to avoid sharp bending and for easy connection. Suitable cable glands of heavy duty, double compression type **made up of Brass** shall be provided at the bottom of the Box. (2nos for two 35 mm² , 3 1/2 core incoming cable and 16 for 2,5mm² 4 core outgoing cables). Detachable plates shall be provided for fixing of cable glands.

Each terminal for out going feeders shall be capable for connection of 2 Nos. 7/0.029” copper wires at one end without any damage to the connector or any looseness of connection.

The terminal shall be properly tagged and ferruled as per approved drawings. The terminal blocks shall be readily accessible and those shall be rust proof and of best quality. Terminal block connector built from cells of moulded dielectric and brass-stud inserts shall be provided. The connection stud shall project at least 6 mm. from the lock nut surface. All blocks shall be shrouded of easily removable shrouds moulded of dielectric material of non-breakable type.

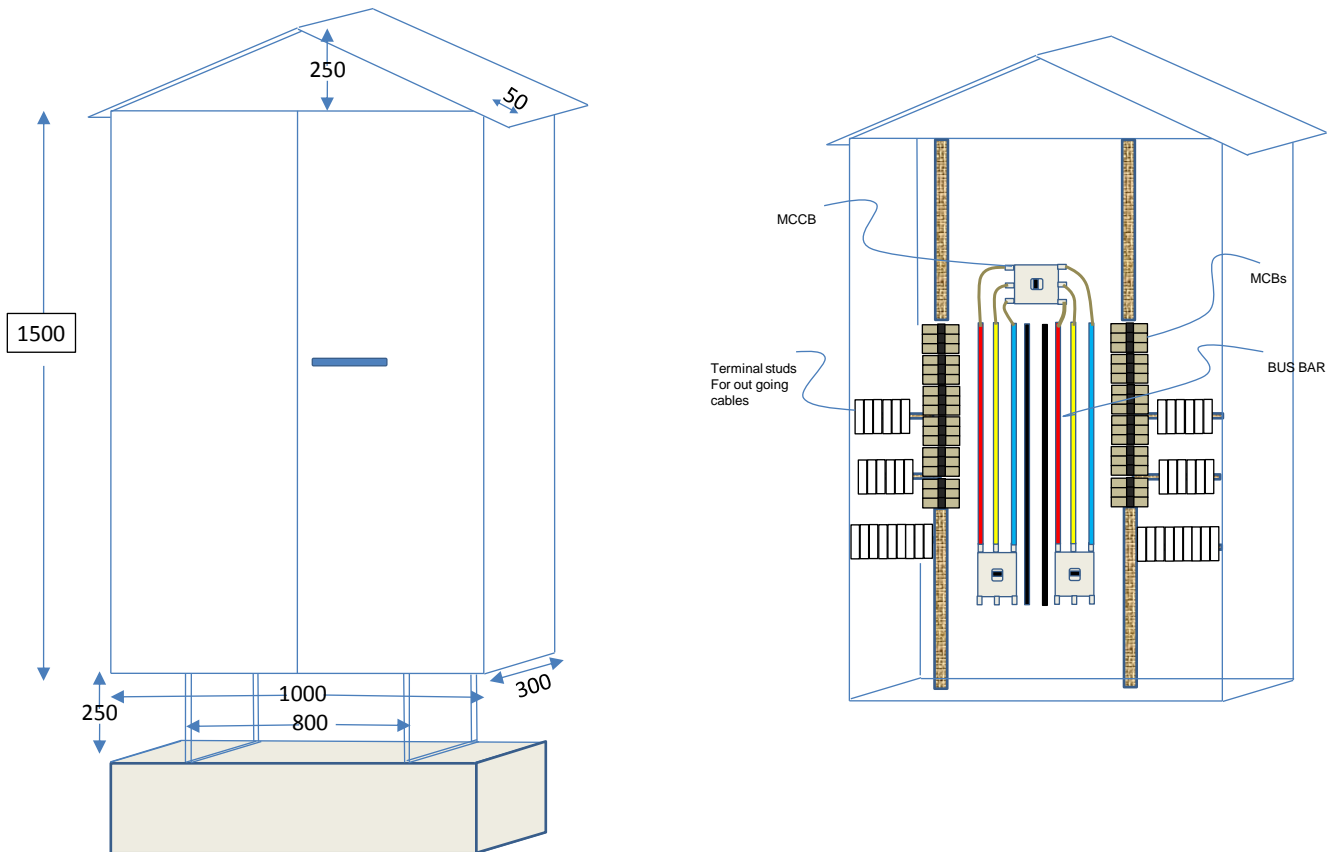
COMPLETENESS OF EQUIPMENT :- Any fittings accessories or apparatus which may not have been specifically mentioned in this specification but which are usually necessary in equipment of similar plant shall be deemed to be included in the specification and shall be supplied by the Tenderer without extra charge. All plant and equipment shall be complete in all details whether such details are mentioned in the specification or not.

INSPECTION :- The successful bidder shall provide free access to the Purchaser's representative at a reasonable time when the work is in progress. Inspection and acceptance of any equipment under this specification by the Purchaser shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specification and shall not prevent subsequent rejection if the equipment is found to be defective. The purchaser reserves the right to insist for witnessing testing of the bought out items.

ACCEPTANCE AND ROUTINE TESTS :- All acceptance and routine tests as stipulated in the relevant standards shall be carried out by the supplier in presence of owner's representative. The supplier shall give fifteen days advance intimation to the Purchaser to enable him to depute his representative for witnessing the tests.

DOCUMENTATION :- The Bidder shall furnish the following drawings along with the offer.

1. General outline and assembly drawing of the L.T. Distribution Box with schematic drawing
2. Type test reports of MCCB
3. Test reports, literature of the bought out items and raw materials
4. Testing facilities available at works
5. List of customers with detailed address / purchase reference, quantity and year of supply with user certificate for such items.



B. LT SIDE ACB KIOSK FOR AUXILIARY TRANSFORMER

The purposes of LT Kiosk are to be installed in the switch yard at the LT side of the Station Auxiliary transformer to protect transformer from downstream faults. There shall be two incomer cables each 185 Sq mm. terminating to copper bus bars. Which will be connected to Air-Circuit breaker through a set of 750 Amp HRC Cartridge fuse for three phases and a link for Neutral. Two out going cables will come out from other end for power supply to the sub-station

SWITCH BOARD DESIGN :- The LT Kiosk shall be dust & vermin proof and suitable for use in tropical climate powder coated by Siemens grey color. LT Kiosk are of outdoor type and to be fabricated out of 2 mm GI sheet steel. The body of the boxes shall have sufficient re- enforcement with suitable size of channels, complete with channel base for fixing these boxes on plinths. The boxes should conform to IP-55 degree of protection. Preference shall be given to those who have successfully conducted type test as mentioned above.

The LT Kiosk shall have double door both at front & back and door handle conforming **to general quality conditions. provision for manual locking arrangement shall be provided.** The roof of the LT Kiosk shall be slightly slanting both sides as per drawing with an over hang of 50 mm to all side. **Any compromise on quality of the Box and its accessories shall be liable for rejection.** The nuts, bolts, washers used in the box shall be galvanized to avoid rusting. The door hinges shall not be visible from outside. The LT Kiosk shall have two nos. of solid Earthing points on either side with an arrangement for sufficient ventilation.

The LT Kiosk should be with provision for lighting inside the cabinet. The internal illumination for working should be of adequate intensity LED lamps.

WIRING :- The wiring shall be complete in all respect. All wiring shall be complete up to the terminal blocks. Wiring shall be carried out with suitable size flexible, heat resistant, switchboard wires. PVC insulated copper conductors. Wires shall not be spliced or tapped between terminal points. Each wire shall be continuous and there shall not be any joint within itself. Wires shall be neatly bunched and adequately supported so as to prevent sagging and strain on termination. The wiring shall be of 1.1 KV grade. Terminals should be so mounted that the appropriate wire may be connected without impairing the normal performance of the unit. The terminal Studs shall be readily accessible and of best quality.

Indicating lamps shall be provided for both incomer shall be LED type provided with suitable safety resistor, and colored dust-tight lens. Lamps shall be of very low wattage consumption and heat generated due to continuous burning shall not deteriorate lamp cover. The lamp holders shall preferably be screwed type.

BUS BARS:- The LT Kiosk shall have provision of bus bars of Electrolytic Copper mounted on epoxy resin cast bus insulators fixed on suitable fixing arrangement. The bus bars shall be liberally sized for the specific current ratings (both short circuit and continuous currents). The size of the bus bars shall be such that the current density is not more than 1.75 A per sq.mm. at rated capacity. Necessary precaution shall be taken to avoid bimetallic action where copper conductors connected to the aluminum.

The bus bars shall be conveniently placed so as to provide adequate clearance between phases, phases to ground and from the body of the box conforming to I.E. Rules applicable for L.T. supply. The bus and connections shall be so supported as to be capable of safety withstanding stresses due to maximum short circuit current and also take care of any thermal expansion.

There should be Heat Shrinkable bus bar insulation tubing of Red Yellow-Blue &Black. (not less than 3.0kv) should be applied on the Bus-Bars.

AIR CIRCUIT BREAKER FOR INCOMER

A.C. air circuit breaker shall be triple pole, non-draw out type, suitable for 1100 volts grade/650 volts grade service, having continuous current carrying capacity of 1250 Amps with breaking capacity of 20 KA at 415 volts. The breaker shall be provided with trip free manually operated mechanism and a push button to trip the breaker electrically.

The breaker shall be provided with mechanical OFF/ON indicators.

The breaker shall be provided with sets of auxiliary contacts for OFF/On indicating lamps, trip circuit and inter-locking circuit along with two sets of spare contacts. The door of the circuit breaker compartment shall be so interlocked that :

1. The door cannot be opened while the breaker is in closed position (i.e. 'ON')
2. When the door is opened, the breaker shall be locked so that it can not be closed (i.e. it cannot be made 'ON'). The circuit breaker shall comply with the relevant I.S.S.

The breaker shall be complete with cable glands suitable for entry of 3 x 400 sq.mm. 1100 V/ 650V grade aluminum cables. One number 195 sq.mm. aluminum cable of same voltage grade as above shall be used for neutral cable gland suitable for entry of this cable shall also be provided in the switchboard. Thermal overload relay range shall be calibrated at 55%, 75%, 100% of the height setting and suitable time settings.

Pick up and drop out voltage of the under-voltage release shall be 60% and 80% respectively of the rated voltage.

CABLE TERMINATION:- LT Kiosk shall be designed to facilitate cable entry from the bottom of the switchboards. Sufficient space shall be provided to avoid sharp bending and for easy connection. Suitable cable glands of heavy duty, double compression type **made up of Brass** shall be provided at the bottom of the Box.

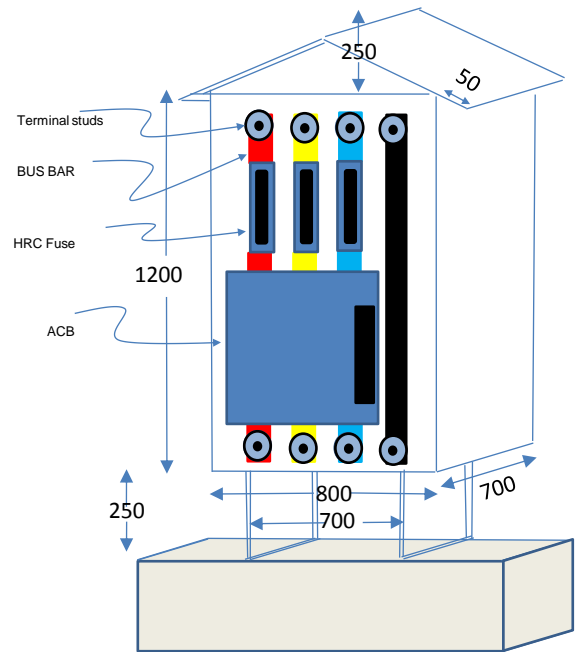
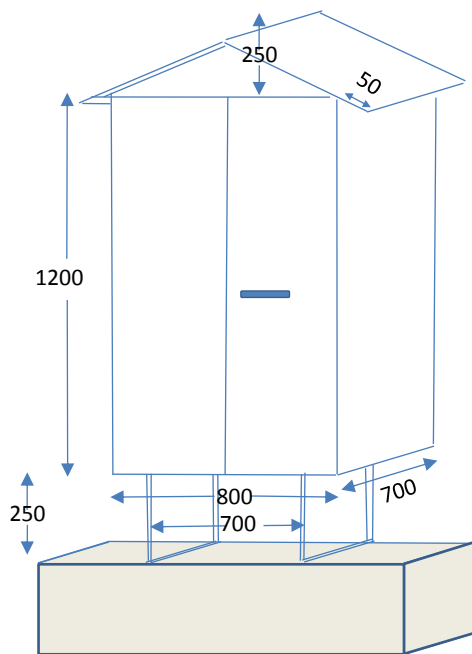
COMPLETENESS OF EQUIPMENT :- Any fittings accessories or apparatus which may not have been specifically mentioned in this specification but which are usually necessary in equipment of similar plant shall be deemed to be included in the specification and shall be supplied by the Tenderer without extra charge. All plant and equipment shall be complete in all details whether such details are mentioned in the specification or not.

INSPECTION :- The successful bidder shall provide free access to the Purchaser's representative at a reasonable time when the work is in progress. Inspection and acceptance of any equipment under this specification by the Purchaser shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specification and shall not prevent subsequent rejection if the equipment is found to be defective. The purchaser reserves the right to insist for witnessing testing of the bought out items.

ACCEPTANCE AND ROUTINE TESTS :- All acceptance and routine tests as stipulated in the relevant standards shall be carried out by the supplier in presence of owner's representative. The supplier shall give fifteen days advance intimation to the Purchaser to enable him to depute his representative for witnessing the tests.

DOCUMENTATION :- The Bidder shall furnish the following drawings along with the offer.

1. General outline and assembly drawing of the L.T. Distribution Box with schematic drawing
2. Type test reports of MCCB
3. Test reports, literature of the bought out items and raw materials
4. Testing facilities available at works
5. List of customers with detailed address / purchase reference, quantity and year of supply with user certificate for such items.



PRICE BID:-

1. PRICE:

- (i) Bidders are required to quote their price(s) as 'FIRM'.
- (ii) The prices quoted shall be unit price for work including supply of required materials as per the tender specification at the consignee's site/store inclusive of all taxes and duties but excluding service tax.

2. PROPER FILLING UP OF THE PRICE SCHEDULE:

The bidder should fill up the price schedule properly and in full in the bid sheets provided in .xls format and up-load the same without changing the file name. The tender may be rejected if the schedule of price is submitted in incomplete form.

N.B-The Bidder must fill the price bid along with the technical specification for complete contract; no partial bid or incomplete of excel sheet will be accepted.

Sl. No	Description of Item	UOM	Quantity	Unit Ex-Price in Rs.	Unit VAT in Rs.	Unit CST in Rs.	Unit freight in Rs.	Unit Insurance in Rs.	Unit entry tax in Rs.	Total taxes including F & I in Rs	Unit Price including all Taxes in Rs.	Total Amount in Rs.
1	ACDB (Outdoor Type) for 220KV Switchyard Outdoor plinth mounted ACDB panel (1500mmx1000mmx300mm) out of 2mm GI sheet in all sides & gland plates of 3 mm with cable gland holes of different sizes (3 .5 core 35 mm2- 2 nos., 4 core 2.5 mm2 - 16 holes) dust & vermin proof duly powder coated by Siemens grey color. The bus bars of the panel to be copper of adequate size & suitable ratings. The bus bar should be covered with heat shrinkable PVC sleeveings i.e Red, Yellow, Blue & Black for neutral. The bus bars are to be mounted on DMC insulators. All the wiring to be made accordingly as per drawing & specification. All the spares should be of reputed brands such as L&T, Siemens, ABB. The Panel Shall contain the following items. All other item required but not specifically mentioned below are deemed to be included in scope of supply.	Nos	10							₹ 0.00	₹ 0.00	₹ 0.00
2	Incoming MCCB-100Amp 4P - 3nos.	Nos	3							₹ 0.00	₹ 0.00	₹ 0.00
3	TPN-MCB-16Amp - 12nos.	Nos	12							₹ 0.00	₹ 0.00	₹ 0.00
4	DP-MCB-16Amp - 4nos	Nos	4							₹ 0.00	₹ 0.00	₹ 0.00
5	Stud type TB'S- 35 mm2 - 10nos.	Nos	10							₹ 0.00	₹ 0.00	₹ 0.00
6	Stud type TB'S- 2.5 mm2 - 50nos.	Nos	50							₹ 0.00	₹ 0.00	₹ 0.00
7	Copper bus bar 25x4 mm – 5.6 mtr.	Mtr	5.6							₹ 0.00	₹ 0.00	₹ 0.00
A	GRAND TOTAL											₹ 0.00
B	Estimated Price			Including all Taxes and Duties							₹ 08,90,000.00	

Sl. No	Description of Item	UOM	Quantity	Unit Ex-Price in Rs.	Unit VAT in Rs.	Unit CST in Rs.	Unit freight in Rs.	Unit Insurance in Rs.	Unit entry tax in Rs.	Total taxes including F & I in Rs	Unit Price including all Taxes in Rs.	Total Amount in Rs.
1	LT Breaker panel for 33/0.4 kV 1 MVA station Transformer Outdoor plinth mounted LT Breaker panel (1200mmx800mmx800mm) out of 2mm G.I sheet in all sides. Dust & vermin proof duly powder coated by Siemens grey color. Suitable for In and out of cables of 1000Amps rating. The Panel shall be suitable for housing 3 Pole Air Circuit Breaker of 1100 volts /650 volts grade service, having continuous current carrying capacity of 1250 Amps with breaking capacity of 20 KA at 415 volts, 750Amp HRC Cartridge Fuse base, Connecting bus bar, with cable terminating studs, suitably design to take the load of cable. The bus bars of the panel to be copper of adequate size & suitable ratings. The bus bar should be covered with heat shrinkable PVC sleeveings i.e Red, Yellow, Blue & Black for neutral. The bus bars are to be mounted on DMC insulators. The ACB should be of reputed brands such as L&T, Siemens, ABB. All other item required but not specifically mentioned below are deemed to be supplied included in scope of supply.	Nos	1							₹ 0.00	₹ 0.00	₹ 0.00
2	Air Circuit Breaker-1250Amp 3P - 1nos.	Nos	1							₹ 0.00	₹ 0.00	₹ 0.00
3	HRC Cartridge Fuse with base – 3 nos.	Nos	3							₹ 0.00	₹ 0.00	₹ 0.00
4	Link For Neutral – I no.	Nos	1							₹ 0.00	₹ 0.00	₹ 0.00
5	Stud for termination of cable with Base insulator suitable for 35 mm ² cable – 8 Nos for two Incoming cables from transformer and 8 Nos for two outgoing cables. 16nos.	Nos	16							₹ 0.00	₹ 0.00	₹ 0.00
6	Copper bus bar 50x8 mm – 5.6 mtr.	Mtr	5.6							₹ 0.00	₹ 0.00	₹ 0.00
A	GRAND TOTAL											₹ 0.00
B	Estimated Price			Including all Taxes and Duties							₹ 02,90,543.00	

[SECTION-V]

[LIST OF ANNEXURES]

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

1	Supplier information form	ANNEXURE-I
2	Abstract of terms and conditions to accompany Section-II	ANNEXURE-II
3	Declaration Form	ANNEXURE-III
4	Bank Guarantee Form	ANNEXURE-IV

ANNEXURE - I

SUPPLIER INFORMATION (Fill in Excel sheet provided in Technical Bid)

SL. No.	The bidder shall furnish general information in the following format	
1	NAME OF THE BIDDER	
2	Address:-	
3	City	
4	Pin Code	
5	Contact person's Name :-	
6	Telephone No. office & Residence:-	
7	FAX No:-	
8	EMAIL:-	
9	VAT/CST REGD. No:	
10	VAT CLEARANCE CERTIFICATE	
11	Manufacturer certificate	
12	PAN NO.	
13	Service Tax Regd. Certificate	

ANNEXURE-II

ABSTRACT OF GENERAL TERMS AND CONDITIONS OF CONTRACT [COMMERCIAL] TO
ACCOMPANY (Fill in Excel sheet provided in Technical Bid)

1	(a) Cost of tender document D.D. No. & Date (b) Earnest money deposit furnished D.D. No. & Date. (c) Tender processing fee D.D. No. & Date.	
2	Deviations to the Specification in any (list enclosed or not)	Yes/No
3	Whether agreeable to OPTCL's terms	Yes/No
4	Whether agreeable to furnish Security Deposit / BG in case his tender is successful.	Yes/No
5	Whether agreeable to contractor responsibility clause	Yes/No
6	Terms of Payment : Whether agreeable to OPTCL's standard terms of payment or not	Yes/No
7	Nature of Price : Quoted	Yes/No
8	Penalty & Recovery : Whether agreeable to OPTCL's terms or not	Yes/No
9	Transit Insurance: Whether agreeable to OPTCL's terms or not	Yes/No
10	Validity: - Whether agreeable to OPTCL's terms or not.	Yes/No
11	Delivery: - Whether agreeable to OPTCL's terms or not.	Yes/No
12	Guarantee: - Whether agreeable to OPTCL's terms or not.	Yes/No
13	Xerox copy of Service Tax Registration no.(submitted)	Yes/No
14	Xerox copy of PAN card (submitted)	Yes/No
15	Xerox copy of VAT registration certificate (submitted)	Yes/No
16	Xerox copy of valid VAT clearance certificate (submitted)	Yes/No
17	Xerox copy of Manufacturer's(submitted)	Yes/No

ANNEXURE-III

DECLARATION FORM (Fill the Form & Scanned copy have to upload)

To

General Manager (Elect.)
E.H.T. (O&M) Circle, OPTCL, Chainpal

Sub:- Tender Specification No. - _____

Sir,

1. Having examined the above specification together with Tender conditions referred to therein I/We the undersigned hereby offer to supply the materials covered thereon 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 here 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 (Strike out whichever is not applicable) Cash / Money order / D.D. / remitting the cost of tender, and this has been acknowledged by your letter No. _____ Dated: _____ here with.
5. In the event of Tender being decided in my / our favour, I / We agree to furnish the DD/Composite B.G. towards Security Deposit in the manner of acceptance of PO/WO of ODISHA POWER TRANSMISSION CORPORATION LTD. and for the sum as applicable to me / us per **Clause – 11 of Section – III** of this Specification within 15 days of issue of Letter of intent / Purchase order failing which I / We clearly understand that the said letter of intent / Purchase order will be liable to be withdrawn by the Purchaser and the EMD deposited by us shall be forfeited by OPTCL .

Signed this _____ day of _____ 20 16_____

Yours faithfully,

Signature of Bidder
with Seal of the Company

(This form should be fully filled up by the Bidder and uploaded at the time of submission of tender)

*(strike out whichever is not applicable)

ANNEXURE-IV
PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT PAYMENT AND PERFORMANCE

This Guarantee Bond is executed this _____ day of _____ 2015 by
us the _____ Bank at _____
P.O. _____ P.S. _____
District _____ State _____

1. WHEREAS the ODISHA POWER TRANSMISSION CORPORATION LTD., a body corporate constituted under the Electricity Act, 2003 [hereinafter called “the OPTCL” which shall include its successors and assigns has placed orders No. _____ Date _____ [hereinafter called “The Agreement”] on M/s. _____

[hereinafter called “The Supplier”] which shall include its successors & assigns for supply of materials.

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

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

NOW THEREFORE, in consideration of the OPTCL having agreed [1] to exempt the Supplier from making payment of Security [2] releasing 100% payment to the Supplier and [3] to exempt from furnishing performance guarantee in terms of the said agreement as aforesaid, we, the

_____ [Bank][hereinafter referred to as „the Bank“] do hereby undertake to pay to the OPTCL an amount not exceeding Rs. _____

[Rupees _____] against any loss or damage caused to or suffered by or would be caused to or suffered by the OPTCL by reason of any breach by the said Supplier [s] of any of the terms or conditions contained, in the said agreement.

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

[Rupees _____]

3. We the _____ Bank } also undertake to pay to the OPTCL any money so demanded notwithstanding any dispute or disputes raised by the supplier [s] in any suit or proceeding instituted/pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

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

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

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

5. We,(_____ Bank) further agree that the OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Supplier [s] and we shall not be relieved from our liability by reason of any such variations or extension being granted to the said supplier [s] or for any forbearance, act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Supplier [s] or by any such matter or thing whatsoever which under the law relating to sureties would but these provisions have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the name , style and constitution of the Bank and supplier [s].

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

8. We the _____ Bank further agree that this guarantee shall also be invokable at our place of business at Burla (indicate the name of the branch)in the state of ODISHA.

Notwithstanding any thing contained here in.

1) Our liability under this bank guarantee shall not exceed Rs.----- (Rupees-----).

2) The bank guarantee shall be valid up to dt.-----

3) We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only & only if you serve upon us at -----branch at Chainpala written claim or demand on or before dt.-----.

Dated _____ Day of _____

For _____
[Indicate the name of Bank]

Witness ((Signature, names & address)

1.

2.