



## **ODISHA POWER TRANSMISSION CORPORATION LTD**

(A Government of Odisha Undertaking)

CIN – U40102OR2004SGC007553

REGD. OFFICE: JANPATH, BHUBANESWAR – 751022,

OFFICE OF THE GENERAL MANAGER, (Elect)

*EHT (O&M) Circle, Bhubaneswar.*

*At:- Chandaka Grid Sub-station, P.O:- KIIT, Bhubaneswar-751024.*

Tel - (0671)-2300226, E-mail: ehtm.cle.bbs@optcl.co.in

### **TENDER SPECIFICATION NO- 13/BBS/2017-18**

**CONSTRUCTION OF BOUNDARY WALL AROUND THE SWITCH YARD OF 220/132/33KV**

**GRID SUBSTATION CHANDAKA**

#### **PART-I**

- SECTION-I- INSTRUCTION TO TENDERERS**  
**SECTION-II- GENERAL CONDITIONS OF CONTRACT**  
**SECTION-III- TECHNICAL SPECIFICATION & SCHEDULE OF QUANTITY**  
**SECTION-IV- LIST OF ANNEXURES**

#### **PART-II**

**COMMERCIAL AND PRICE BID (In Excel Format)**

<b>Request for online tender documents</b>	<b>From dt</b>	<b>27.12.2017 (10.00 Hrs)</b>
	<b>To dt</b>	<b>11.01.2018 (12.30 Hrs)</b>
<b>Issue of online tender documents:</b>	<b>From dt</b>	<b>27.12.2017 (10.01 Hrs)</b>
	<b>To dt-</b>	<b>11.01. 2018 (12.31 Hrs)</b>
<b>Last date of submission of online tender:</b>	<b>Up to dt</b>	<b>11.01 .2018 (Up to 17.30 Hrs)</b>
<b>Date of opening of Tender</b>	<b>- On dt</b>	<b>12.01.2018 (16.00 Hrs) Onwards</b>

## **TELEPHONES / CONTACTS**

1. General Manager: 09438907551
2. TA to General Manager: 9438907898
3. Office Land Line: 0671-2300226

### **NOTE: -**

1. In case the due date for opening of tender happens to be a holiday, then tenders would be received & opened on the next working day at the same time.
2. Please note that the tenders against this tender enquiry are being invited **through e-tendering mode**. In case of any clarification the prospective bidders may contact this office as mentioned above.
3. **The prospective bidders are requested to get their digital signatures (Class-3) well in time** for participation in the tender and no request for extension on this account will be entertained.
4. **Manual tenders in any form/case will not be accepted.**



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**OFFICE OF THE GENERAL MANAGER, (Elect)**

*EHT (O&M) Circle, Bhubaneswar.*

***At:- Chandaka Grid Sub-station, P.O:- KIIT, Bhubaneswar - 751024.***

**Tel- 0671-2300226, E-mail-ehm.cle.bbs@optcl.co.in**

**E-TENDER NOTICE NO. 13/BBS/2017-18**

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., General Manager, EHT (O&M) Circle, Bhubaneswar invites Tenders from reputed bidders having **civil contractor license** issued by Govt. of Odisha/Railways/Military for **CONSTRUCTION OF BOUNDARY WALL AROUND THE SWITCH YARD OF 220/132/33KV GRID SUB-STATION CHANDAKA.**

The interested bidders would be required to enroll themselves on the tender portal [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) and must possess [Class 3 Digital Signature Certificate](#). Complete set of bidding documents are available at [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) from **27.12.2017 (10.01 Hrs) to dt- 11.01.2018 (12.30 Hrs)**. Interested bidders may visit OPTCL's official web site <http://www.optcl.co.in> and [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) for detail specification.

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

**GENERAL MANAGER**

**EHT (O&M) CIRCLE, BHUBANESWAR**



**ODISHA POWER TRANSMISSION CORPORATION LTD.,**

**CIN – U40102OR2004SGC007553**

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

**OFFICE OF THE GENERAL MANAGER, (Elect)**

***EHT (O&M) Circle, Bhubaneswar.***

***At :- Chandaka Grid Sub-station, P.O:-KIIT, Bhubaneswar-751024.***

**Tel- 0671-2300226 FAX-0671-2300547, E-mail-ehm.cle.bbs@optcl.co.in**

**NOTICE INVITING TENDER**

**E-TENDER NOTICE NO- 13/BBS/2017-18.**

For and on behalf of the **ODISHA POWER TRANSMISSION CORPORATION LTD**, the undersigned invites bids **under single-part bidding system** in e- tendering mode only for “Construction of boundary wall around the switchyard of Grid substation Chandaka” as per the schedule of quantity mentioned in the specification. Important informations are as follows.

***Tender Specification No: EHTM/GM/13/BBS/2017-18***

<b><i>Request for online tender documents –</i></b>	<b>From</b>	<b>27.11.2017 (10.00 Hrs)</b>
	<b>To</b>	<b>11.01.2018 (12.30 Hrs)</b>
<b><i>Issue of online tender documents (bid sheets) -</i></b>	<b>From</b>	<b>27.11.2017 (10.01 Hrs)</b>
	<b>To</b>	<b>11.01.2018 (12.31 Hrs)</b>
<b><i>Last date of submission of online tender –</i></b>	<b>Upto</b>	<b>11.01 .2018 (17.00 Hrs)</b>
<b><i>Date of opening of Tender</i></b>	<b>On</b>	<b>12.01.2018 (16.00 Hrs onwards)</b>

***Cost of Tender Spec. Document: Rs. 6000/ + Rs 720/- (GST @ 12%) = Rs 6,720/-***

***Earnest Money Deposit: Rs 20,000/-***

***Tender Processing Fee: Rs 2,000/- + Rs 360/- (GST @ 18%) = Rs 2,360/-***

The bidders can view the tender documents from website free of cost. The bidders who want to participate in the tender shall have to pay **Rs6720/- (Rupees Six thousand seven hundred and twenty only) non refundable** including GST @ 12%) towards the cost of tender document, in the form of Demand draft only, drawn in favour of **EHT (O&M) Circle, OPTCL, Cuttack, Payable at Cuttack** and the same is to be submitted to the office of the undersigned on or before the last date & time of submission of tender.

The bidders shall have to submit a non refundable amount of **Rs 2360/- (Rupees three thousand three hundred and sixty only)** towards the tender processing fee through e-payment gate way.

*(NOTE: For deposit of tender processing fee to K.S.E.D.C. Ltd. Bangalore, the bidder can use various modes of e-payment facility available through Tender wizard Portal, i.e. by Credit Card, Debit Card, Net Banking)*

The bidders shall scan the Demand Draft towards EMD, Tender paper Cost and acknowledgement slip for tender processing fee and upload the same in the prescribed form in \*.gif or \*.jpg format in addition to sending the original as stated above.

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

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

**GENERAL MANAGER  
EHT (O&M) CIRCLE, BHUBANESWAR**

**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](http://www.tenderwizard.com/OPTCL). The bidder must ensure that the bids are received in the specified website of the OPTCL by the date and time indicated in the Tender notice. Bids submitted by telex/telegram will not be accepted. No request to collect the Bids in physical form will be entertained by OPTCL.

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 GST.

**1. For all the users it is mandatory to procure the Class 3 Digital Signatures.**

**2. Manufacturers/ Dealers/ 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/- (Rupees Two Thousand three hundred and sixty only)** through **E-payment gateway**.
- c. This registration is valid for one year.
- d. Send the acknowledgment copy for verification.
- e. 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 – Class 3) in your System.  
(Note: Make sure that necessary software of PKI be installed in your system).
- b. Click / Double Click to open the Microsoft Internet Explorer (This icon will be located on the Desktop of the computer).
- c. Go to Start > Programs > Internet Explorer.
- d. Type [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) in the address bar, to access the Login Screen.
- e. Enter e-tender User Id and Password, click on “Go”.
- f. Click on “Click here to login” for selecting the Digital Signature Certificate.
  - Select the Certificate and enter DSC Password.
  - Re-enter the e-Procurement User Id Password

5. To make a request for Tender Document, Bidders will have to follow below mentioned steps.
  - a) Click “Un Applied” to view / apply for new tenders.
  - b) Click on Request icon for online request.
  - c) Enter the required fields including details of D.D for tender Processing fee.
6. After making the request Bidders will receive the Bid Documents which can be checked and downloaded by following the below steps:
  - a) Click to view the tender documents which are received by the user.
  - b) Tender document screen appears.
  - c) 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.
  - a) Prior to submission, verify whether all the required documents have been attached and uploaded to the particular tender or not.
  - b) 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.**
  - **Mr. Satamanyu – mob: 09937140591**

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

### PART –I

SECTION-I-	INSTRUCTION TO BIDDERS
SECTION-II-	GENERAL CONDITIONS OF CONTRACT
SECTION-III-	TECHNICAL SPECIFICATION & SCHEDULE OF QUANTITY
SECTION-IV-	LIST OF ANNEXURES

### PART II

COMMERCIAL AND PRICE BID (in Excel Sheet Format)

The Tenderers are required to submit the tenders in single part.

## **3. Purchaser’s Right Regarding Alteration of Quantities Tendered**

The Purchaser may alter the quantities of work 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 bidder for any particular item, in the interest of OPTCL.

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

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 Tenderers on individual merits of the Tenderer.** The Purchaser has exclusive right to alter the quantities of work at the time of placing final work order.

**5. Mode of submission of Tenders.**

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

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

**6. Earnest money deposit:**

The tender shall be accompanied by Earnest Money deposit of value specified in the notice inviting tenders against each bid. Tenders without the required EMD will be rejected outrightly. The earnest money deposit shall be furnished in shape of **Bank Draft (Only)**:-To be drawn in favour of **EHT (O&M) Circle, OPTCL, Cuttack, Payable at Cuttack.**

**NOTE:-**

- a) No adjustment towards EMD shall be permitted against any outstanding amount with the ODISHA POWER TRANSMISSION CORPORATION LTD.
- b) In the case of un-successful tenderer, the EMD will be refunded after finalization of the tender on written request. In the case of successful Tenderer, this will be refunded on written request only after award of contract & on submission of security deposit.
- c) 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.
- d) EMD will be forfeited if the tenderer fails to accept the purchase order and/or work order issued in his favour or to execute the order, placed on them.
- e) Tenders not accompanied by Earnest Money shall be disqualified.
- f) EMD carries no Interest
- g) **The EMD not claimed for refund within a period of one year from the date of issue of Purchase/ Work orders and the Security Deposit not claimed for refund within a period of three years after completion of contract, will be forfeited.**

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

The bidders are requested to keep the validity of their offer for a period of **180** days (One hundred and eighty days) from the date of opening of the tender, 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 within the validity of the tender. The bidders are advised to have a site visit before filling the tender.

## **9. 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 GM, EHT (O&M) Circle, Bhubaneswar. This, however, does not entitle the Tenderer to ask for time beyond due date, fixed for receipt of tender.

## **10. Documents to Accompany Bids.**

Tenderers are required to submit tenders in the following manner:

- a) Declaration Form as per **Annexure-I** (duly signed) to be uploaded in .pdf format.
- b) Earnest Money (scanned copy is to be uploaded)
- c) Abstract of Terms & conditions in prescribed proforma as per **Annexure-II**. To be keyed in, in the bid sheets provided.
- d) General Terms & Conditions of contract as per Section-II of the Specification. (All the required documents are to be uploaded.)
- e) Data on past experience if any **as per** the Specification.(Scanned copy to be uploaded)
- f) GST Registration certificate, Civil License & Permanent Account Number [PAN] of the firm is required under Income tax Act. (Scanned copy to be uploaded).
- g) Any other document required, is to be uploaded.
- h) Schedule of prices (Price Bid) in the prescribed proforma in the price bid sheet provided in \*.xls format.

## **11. Conditional Offer:**

Conditional offer shall not be accepted.

## **12. General: -**

- a) The tenderer must get him registered in tender portal by paying an amount of **Rs. 2360/** through e-payment gateway. This registration is valid for one year.
- b) The tender paper cost (Form fee non refundable) for an amount of **Rs 6720/-** is to be deposited in form of E-tender.
- c) The tender processing fee for an amount of **Rs 2360/-** (Non-refundable) is to be paid to KSEDC Limited, Bangalore through e-payment gateway.
- d) The EMD amount as specified is to be paid in shape of DD.
- e) Notice inviting tender shall form part of this specification.

- f) The EMD shall be returned to the unsuccessful bidders after finalization of tender on written request.
- g) **The Tenderer must submit the EMD amount, cost of tender document in shape of draft in a sealed cover envelope super scribing the Tender Notice No & Date of opening of tender, in the office of the purchaser on or before the date of opening of tender.**
- h) The estimated quantity as indicated in Schedule of Quantity of Section III may vary as per site requirement and hence the tenderers are advised to visit the site; assess the quantum of work involvement and make themselves acquainted with the site conditions before submission of tender.
- i) The tenderer must observe all the safety rules while working in EHV environment.

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

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

**1. Scope of the contract:**

The scope of contract covers “Construction of boundary wall along with barbed wire fencing on the top of the wall around the switchyard of grid substation Chandaka as per the specification and quantity mentioned in the specification including supply of all man and materials including mobilization”.

**2. 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, Bhubaneswar 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. “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.
- 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. “FOR Destination costs” shall mean the cost at our work site. The GST is to be calculated extra.
- 2.11. 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.

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

**3. MANNER OF EXECUTION:**

All the work shall be taken as per the civil engineering procedure and as per the instruction of site engineer. The work is to be done while strictly adhering to the Technical Specification stipulated in **Section III, Part - I**.

**4. PERIOD OF EXECUTION:-**

The work shall be carried out and completed in all respect within **90 days** from the date of issue of this work order.

**5. INSPECTION / SUPERVISION:-** Necessary inspection/ supervision of the work will be done by the consignee / Supervising officer during execution of work. The steel and other materials to be used are to be inspected by the Engineer-in-charge before taking up the work.

**6. LANGUAGE AND MEASURES:**

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

**7. COMPENSATION: -**

The contractor shall be fully responsible for paying compensation, if any, under the Workmen Compensation Act on account of workmen deployed by him. He must have to follow all the safety rules and provide all the required protective equipments to his workmen as they are to work in the surrounding of Extra High Voltage System. OPTCL in no way will be responsible for payment of any compensation.

**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 Completion of work is delayed due to reasons beyond the control of the Contractor, the Contractor shall without delay give notice to the purchaser in writing of his claim for an extension of time. The Purchaser on receipt of such notice may or may not agree to extend the

contract period date as may be reasonable but without prejudice to other terms and conditions of the contract.

**10. GUARANTEE PERIOD: -**

The guarantee period for this contract shall be One Year (12 months) from the date of completion of the work. Any defect / deviation if noticed during this period shall be immediately rectified free of cost on written notice from the consignee, failing which the security deposit shall be forfeited.

**11. GST REGISTRATION, PAN CARD & CIVIL LICENSE:**

Clear attested Xerox copies of PAN No./ Valid GST registration & clearance certificate / Civil contractor license issued by Govt of Odisha / Railways / Military valid on the date of opening of tender should be submitted along with tender, without which tender will be rejected. The Contractor may be requested to produce original PAN card, GST registration and clearance certificate as applicable & Civil contractor license and all other relevant documents for verification. Those who fail to produce the same and found not to be valid on the date of opening of tender, their tenders will be rejected.

**12. QUANTITY VARIATION:** The quantity to be ordered may undergo revision at the time of the placement of orders

**13. SECURITY DEPOSIT TOWARDS, 100% PAYMENT AND PERFORMANCE GUARANTEE:**

The successful tenderer will be required to deposit a sum amounting to 10% of value of the contract in shape of Bank Draft / Composite BG from any nationalized bank valid for up to two months after the guarantee period, drawn in favour of the paying officers, within 15 days of receipt of the work order. In the event of any breach or default in all or any conditions of the work order, the G.M., EHT (O&M) Circle, Bhubaneswar may forfeit the whole amount of Security deposit. No interest will be paid on the security deposit and will be released after expiry of the guarantee period by the paying officer. The security value must be deposited prior to execution of work.

**14. Terms of Payment.**

- a) 100% of the Contract Value with GST shall be paid after successful completion of the work, subject to approval of the Guarantee Certificate by the Ordering Authority and deposit of security amount.
- b) Deduction of Taxes and all other statutory dues shall be made as per the prevailing norms of OPTCL

### **15. Penalty for Delay in Completion of Contract**

Penalty shall be imposed @ 0.5% (half percent) of contract price for each calendar week of delay or part thereof subject to maximum of @ 5% (five percent) of contract amount. Charges towards penalty shall be counted after scheduled date of completion / issue of clear instruction to the contractor for commencement of works by the General Manager, E.H.T (O&M) Circle, Bhubaneswar /concerned Deputy General Manager, E.H.T (O&M) Divisions.

### **16. 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.

### **17. Correspondences.**

- a) Any notice to the Contractor under the terms of the contract shall be served by Registered Post or by hand at the Contractor's Principal Place of Business.
- b) 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, Bhubaneswar, OPTCL  
At:- Chandaka Grid Sub-station, P.O:- KIIT, Bhubaneswar, Odisha  
Pin-751024  
Telephone No. 0671 – 2300226
- (ii) **Supplier:** Address  
Telephone No.  
Fax No.

### **18. Outright Rejection of Tenders**

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

- a) The tenderer 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.
- b) The Tender shall not be submitted telegraphically or by FAX.
- c) The prescribed EMD shall be submitted on or before the last date and time of submission of the bid.
- d) 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.
- e) The tender shall not be conditional.

- f)** There must not be any violation to the terms & conditions set forth and provided in the tender specification.
- g)** Attested copies of I.T. Pan card and VAT registration certificate / VAT Clearance shall be submitted along with the tender.
- h)** The schedule of prices should be filled up fully to indicate the break-up of the prices including taxes. Incomplete submission of this schedule will make the tender liable for rejection.
- i)** All the necessary excel sheets like techno-commercial bid sheet, price bid sheet etc. attached with the tender should be duly filled up without any empty cells
- j)** The prescribed EMD shall be submitted on or before the date and time of opening of the bid.
- k)** There must not be any deviation to the delivery schedule as specified in tender specification.
- l)** Abstract of general terms and conditions of contract.

**PART – I**  
**SECTION – III**

**A. TECHNICAL SPECIFICATION**

1. **The Scope of work:-** The scope of contract covers construction of boundary wall along which includes columns, expansion joints and running beam along with brick work as per the design, drawing attached and as per the instruction of engineer-in-charge including supply of all materials, labour, T&P, transportation & mobilization to site to complete the work in all respect.

2. **Reinforcement Schedule:**

<b>Rod Dia</b>	<b>kg / Meter</b>					
8mm	0.395					
10mm	0.617					
12mm	0.889					
<b>Struture</b>	<b>Details</b>	<b>Unit</b>	<b>Quantity</b>			
<b>Raft</b>						
	Concrete Width	Mtr	1.00			
	Concrete Length	Mtr	1.00			
	Concrete Height	Mtr	0.25			
	Concrete Volume	Cum	0.25			
	Rod Length (excl. Reinf. Covers)	Mtr	0.90			
	Spacing of Rods	Mtr	0.250			
	Reinceforcement Cover	Mtr	0.05			
			<b>8mm</b>	<b>10mm</b>	<b>12mm</b>	<b>Total</b>
	No. of Steel Rods (both ways)	Nos.		10		
	Total Rod Length	Mtr		9.00		
	Total L-bend Length @ (Concrete Height - Reinf. Covers) x 2 Ends	Mtr		3.00		
	Total Rod Length (incl. L-bends)	Mtr	0.00	12.00	0.00	
	Rod Weight	kg	0.00	7.40	0.00	7.40
	Binding Wire @ 0.8%	kg	0.00	0.06	0.00	0.06
	<b>Total Steel Weight</b>	<b>kg</b>				<b>7.46</b>
	<b>Steel Volume : Concrete Volume</b>	<b>%</b>				<b>0.38%</b>
	<b>Steel Weight / Concrete Volume</b>	<b>kg/Cum</b>				<b>29.85</b>
<b>Column</b>						
	Concrete Width	Mtr	0.25			



	Concrete Height (excl. Raft)	Mtr	2.80			
	Concrete Volume	Cum	0.18			
	Rod Length (excl. Reinforcement Covers)	Mtr	2.97			
	Spacing of Stirrups	Mtr	0.20			
	Reinforcement Cover	Mtr	0.04			
	Length per Stirrup incl. 50mm Lap	Mtr	0.90			
			<b>8mm</b>	<b>10mm</b>	<b>12mm</b>	<b>Total</b>
	No. of Steel Rods	Nos.			6	
	Total Rod Length				17.82	
	No. of Stirrups	Nos.	15			
	Total Stirrup Length	Mtr	13.50			
	Total L-bend Length @ 30D	Mtr			2.16	
	Total Rod Length (incl. Stirrups & L-bends)	Mtr	13.50	0.00	19.98	
	Rod Weight	kg	5.33	0.00	17.76	23.09
	Binding Wire @ 0.8%	kg	0.04	0.00	0.14	0.18
	<b>Total Steel Weight</b>	<b>kg</b>				<b>23.28</b>
	<b>Steel Volume : Concrete Volume</b>	<b>%</b>				<b>1.69%</b>
	<b>Steel Weight / Concrete Volume</b>	<b>kg/Cum</b>				<b>133.03</b>
<b>Beam</b>						
	Concrete Width	Mtr	0.25			
	Concrete Length	Mtr	76.90			
	Concrete Height	Mtr	0.25			
	Concrete Volume	Cum	4.81			
	Rod Length (excl. Reinf. Covers)	Mtr	84.85			
	Spacing of Stirrups	Mtr	0.20			
	Reinforcement Cover	Mtr	0.025			
	Length per Stirrup incl. 50mm Lap	Mtr	0.85			
			<b>8mm</b>	<b>10mm</b>	<b>12mm</b>	<b>Total</b>
	No. of Steel Rods	Nos.		4		
	Total Rod length	Mtr		339.40		
	No. of Laps (assuming 12mtrs size)	Mtr		7		
	Total Lap Length @ 50D	Mtr		14.00		
	No. of Stirrups	Nos.	424			
	Total Stirrup Length	Mtr	360.4			
	Total L-bend Length @ 50% x (Concrete Height - Reinf. Covers) x 2 Ends	Mtr		0.80		

	Total Rod Length (incl. Laps, Stirrups & L-bends)	Mtr	360.40	354.20	0.00	
	Rod Weight	kg	142.36	218.54	0.00	360.90
	Binding Wire @ 0.8%	kg	1.14	1.75	0.00	2.89
	<b>Total Steel Weight</b>	<b>kg</b>				<b>363.79</b>
	<b>Steel Volume : Concrete Volume</b>	<b>%</b>				<b>0.96%</b>
	<b>Steel Weight / Concrete Volume</b>	<b>kg/Cum</b>				<b>75.69</b>

### 3. Dimension Details

Description	Unit	Existing Main gate to CR East side gate	East side CR Gate to 33kV Switchyard East Gate
Length of Boundary Wall	Mtr	85	185
Column Gap @ C/C	Mtr	3	3
Expansion Joints @ 21mtrs	Nos.	4	9
Columns considering Expansion Joints	Nos.	32	71
<b>Column (Raft - Coping Beam)</b>			
Width	Mtr	0.25	0.25
Height	Mtr	2.80	2.80
<b>Tie Beam</b>			
Width	Mtr	0.25	0.25
Length (excl. Width of Columns (250mm) and Expansion Joints (25mm))	Mtr	76.90	167.03
Height	Mtr	0.25	0.25
<b>Coping Beam</b>			
Width	Mtr	0.25	0.25
Length (excl. Width of Expansion Joints (25mm))	Mtr	84.90	184.78
Height	Mtr	0.15	0.15
<b>Brick Masonry</b>			
Width	Mtr	0.25	0.25
Length (Same as Tie Beam Length)	Mtr	76.90	167.03
Height	Mtr	1.7	1.7
<b>Plaster &amp; Painting Area</b>			
Width	Mtr	0.25	0.25
Length (excl. Width of Expansion Joints (25mm))	Mtr	84.90	184.78
Height	Mtr	2	2

4. **Supply of Materials**:- All required materials, consumables, nut bolts, paint are to be supplied by the Contractor and must be of approved quality. Different sizes of steel rod to be used must be of TATA/SAIL make. The materials are to be inspected by the representative of OPTCL before utilization of the same. **All other materials which have not been mentioned and are required at site for proper execution of the work shall also be supplied by the contractor.**
5. **Workmanship**:- The work shall be carried out as per standard Civil Engineering procedure & as per the instruction of the site in-charge.
6. **Program and Progress of work**:-The contractor shall submit the detailed program of work to the Consignee three days prior to commencement of the work so as to make adequate supervision by the Engineer in charge.

### **B. SCHEDULE OF QUANTITY**

Sl. No.	Description of Work	Unit	Qty
1	EXCAVATION & BACKFILLING: This includes supply of all materials, labour and T&P	Cum	287.17
1.1	Soft / Loose Soil	Cum	57.52
1.2	Hard / Dense Soil	Cum	229.65
2	FOUNDATION with M-10 Grade Concrete in the ratio 1:3:6 with Cost of Cement and without Steel	Cum	28.75
3	FOUNDATION with M-20 Grade Concrete in the ratio 1:1.5:3 with Cost of Cement and without Steel	Cum	59.03
	Above the Ground Level - $(1.850 \times 0.25 \times 0.25) \times 103 = 11.91$	Cum	11.91
	Below the Ground Level (59.03-11.91)	cum	47.12
4	Disposal of surplus excavated earth (after back filling) up to a distance of 10 mtrs	Cum/ Mtr	75.86 cum for 10 mtrs
5	Cutting, bending, binding, placing in position of steel rods for foundation concreting incl. cost of binding wire with supply of rods of all sizes (TATA, RINL, SAIL etc. make)	MT	4.683688
6	Brick Masonry in ratio 1:4 with supply of first class K.B. Bricks, cement, good quality river sand, labour and T&P (Width x Length x Height)	Cum	103.81
7	Cement Plastering (12mm on external exposed face and 12mm on internal exposed face) with mortar of 1:6 ratio with supply of cement, all fine aggregates (good quality river sand), all labour and T&P	Sqm	1,161.20
8	Painting with two coats of Cement Paint (Weather-proof)	Sqm	1,161.20

9	Supply, fabrication and fixation of Galvanised Y-Posts (50x50x6mm) on Columns incl. cost of consumable, labour, T&P and ancillary items @ Angle Length 1.814mtr x 4.5kg/mtr	MT	0.84
10	Supply and laying of 12 SWG GI Barbed Wires (3" barb spacing) of 3-rows in each limb of Y-Post (Total 6 Nos.) with assumption of 5% wastage and 6.06mtrs length per kg	kg	280.69

**SECTION-IV**  
**[LIST OF ANNEXURES]**

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

<b>Sl. No</b>	<b>Description</b>	<b>Annexure</b>
1	Declaration form	ANNEXURE-I
2	Abstract of terms and conditions to accompany Section-II of Part-I	ANNEXURE-II (To be filled in Commercial & Price Bid Sheet)
3	Bidders Documents and Details	ANNEXURE- III (To be filled in Commercial & Price Bid Sheet)

**ANNEXURE - I**  
**DECLARATION FORM**

To  
The General Manager (Elect)  
EHT (O&M) Circle, OPTCL  
Bhubaneswar.

Sub: - Tender Specification No-\_\_\_\_\_

Sir,

1. Having examined the above specification, scope together with terms & conditions, corrigendum ,if any, referred to there in, I/We the undersigned hereby offer to take up the work including supply of materials , labour charges & T&P etc. 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 complete the work 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. / DD in the manner, acceptable to ODISHA POWER TRANSMISSION CORPORATION LTD., and for the sum as applicable to \*me/us as per clause-13 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, and the EMD deposited by us shall be forfeited by OPTCL.

Signed this                      day of                      2017

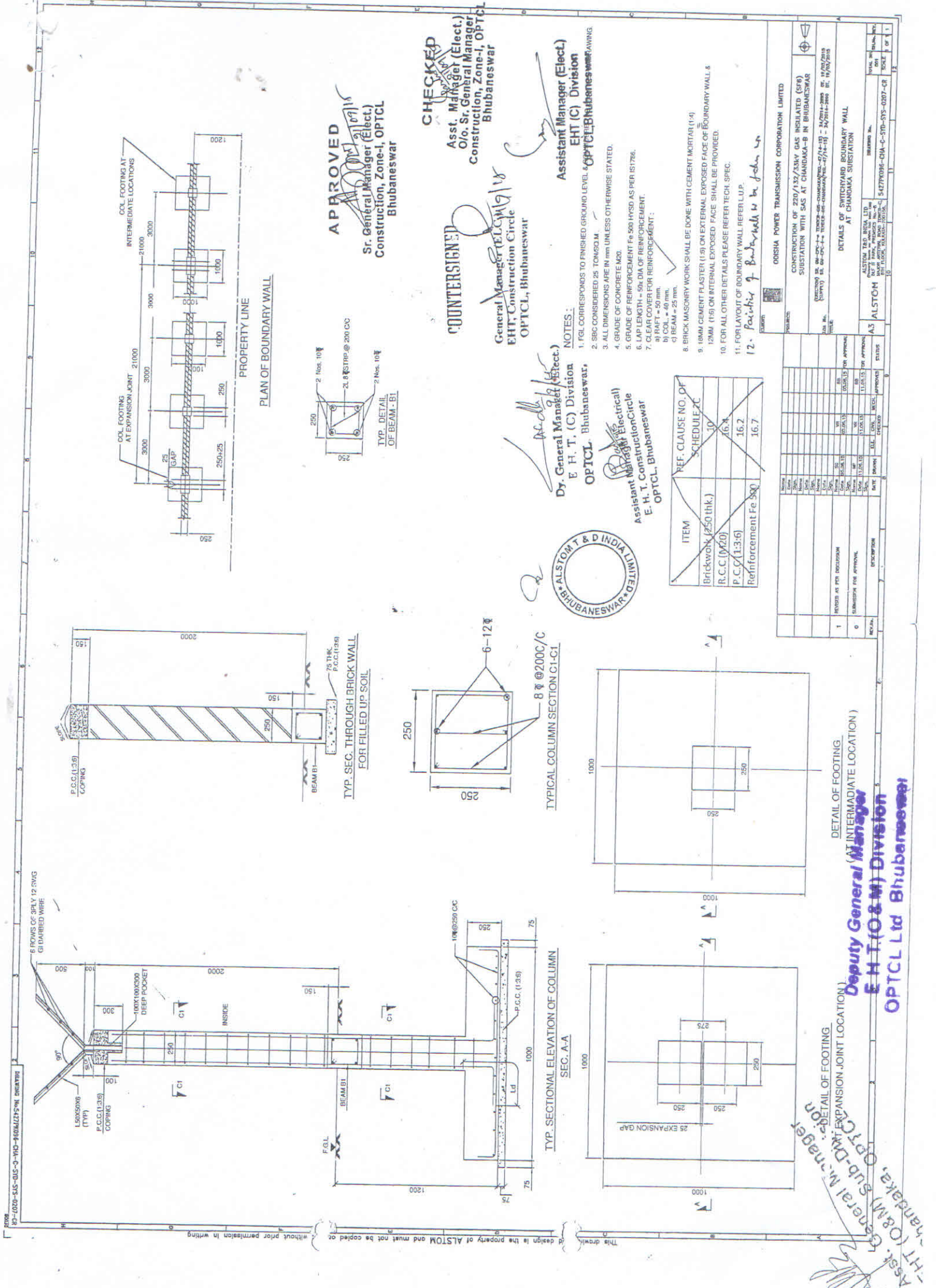
Yours faithfully

Signature of the Tenderer

with seal of the company

**[This form should be dully filled in & signed by the tenderer and uploaded at the time of submission of tender.]**

\* (Strikeout whichever is not applicable).



**APPROVED**  
 Sr. General Manager (Elect.)  
 Construction, Zone-I, OPTCL  
 Bhubaneswar

**CHECKED**  
 Asst. Manager (Elect.)  
 O/o, Sr. General Manager  
 Construction, Zone-I, OPTCL  
 Bhubaneswar

**COUNTERSIGNED**  
 General Manager (Elect.)  
 EHT, Construction Circle  
 OPTCL, Bhubaneswar

**Assistant Manager (Elect.)**  
 EHT (C) Division  
 OPTCL Bhubaneswar

**Dr. General Manager (Arch.)**  
 E. H. T. (C) Division  
 OPTCL, Bhubaneswar

**Assistant Manager (Electrical)**  
 E. H. T. Construction Circle  
 OPTCL, Bhubaneswar



**NOTES:**

1. FGL CORRESPONDS TO FINISHED GROUND LEVEL & OPTCL Bhubaneswar DRAWING.
2. SBC CONSIDERED 25 TON/SD M.
3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
4. GRADE OF CONCRETE M20.
5. GRADE OF REINFORCEMENT Fe 500 HYSD AS PER IS 1786.
6. LAP LENGTH = 50 DIA OF REINFORCEMENT.
7. CLEAR COVER FOR REINFORCEMENT:  
 a) RAFT = 50 mm.  
 b) COL. = 40 mm.  
 c) BEAM = 25 mm.
8. BRICK MASONRY WORK SHALL BE DONE WITH CEMENT MORTAR (1/4).
9. 10MM CEMENT PLASTER (1/9) ON EXTERNAL EXPOSED FACE OF BOUNDARY WALL & 12MM (1/9) ON INTERNAL EXPOSED FACE SHALL BE PROVIDED.
10. FOR ALL OTHER DETAILS PLEASE REFER TECH. SPEC.
11. FOR LAYOUT OF BOUNDARY WALL REFER L.U.P.
12. *Paicher & Baskerville by John W*

ITEM	REF. CLAUSE NO. OF SCHEDULE 'C'
Brickwork (250 thk.)	10
R.C.C. (M20)	16.4
P.C.C. (1:3:6)	16.2
Reinforcement Fe 500	16.7

NO.	REVISION	DATE	BY	CHKD.	APP'D.	STATUS
1	ISSUED AS PER DECISION	11.05.15	...	...	...	...
2	FOR APPROVAL	11.05.15	...	...	...	...

NO.	REVISION	DATE	BY	CHKD.	APP'D.	STATUS
1	ISSUED AS PER DECISION	11.05.15	...	...	...	...
2	FOR APPROVAL	11.05.15	...	...	...	...

DETAIL OF FOOTING  
 AT INTERMEDIATE LOCATION  
 DETAIL OF FOOTING  
 AT EXPANSION JOINT LOCATION  
 TYP. SECTIONAL ELEVATION OF COLUMN  
 SEC. A-A  
 TYP. SECTIONAL ELEVATION OF COLUMN  
 AT EXPANSION JOINT LOCATION  
 TYP. SECTIONAL ELEVATION OF COLUMN  
 AT INTERMEDIATE LOCATION

ALSTOM  
 54277006-CH-C-570-575-0207-CR  
 SCALE: 1/10  
 DATE: 10/02/2015  
 DRAWN BY: ...  
 CHECKED BY: ...  
 APPROVED BY: ...