



ODISHA POWER TRANSMISSION CORPORATION LIMITED

**OFFICE OF THE GENERAL MANAGER
EHT (O&M) CIRCLE, CUTTACK**

TEL NO06712300226 FAX NO. 06712300547

**TENDER SPECIFICATION NO:
GM-EHTM-CTC/E- TENDER/ 22/2013-14**

FOR

**CONSTRUCTION OF RETAINING WALL WITH WIRE MESS FENCING AROUND THE SWITCHYARD OF
GRID SUB STATION KENDRAPADA
UNDER EHT (O&M) CIRCLE, CUTTACK, OPTCL**

SECTION-I-	INSTRUCTION TO BIDDERS
SECTION-II-	GENERAL CONDITIONS OF CONTRACT
SECTION-III-	LIST OF ANNEXURES
SECTION-IV-	PRICE BID & TECHNO COMMERCIAL BID

Request for online tender documents – From dt-	26.2.2014(11.00 Hrs) to dt-12.03.2014(12.30 Hrs)
Last date of submission of online tender –	up to dt-12.03.2014(15.00 Hrs)
Date of opening of Tender -	dt. 14.03.2014(11.00 Hrs)



ODISHA POWER TRANSMISSION CORPORATION LTD.,
OFFICE OF THE GENERALMANAGER (ELECT.)
EHT (O & M) CIRCLE, CUTTACK – 753008, DIST- CUTTACK
ODISHA, INDIA.

e-TENDER NOTICE NO: CTC-22 / 2013-14

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., General Manager, EHT (O&M) Circle, Cuttack invites Tenders from reputed bidders having **civil contractor license** issued by Govt. of Odisha/railways/ Military for the work of "CONSTRUCTION OF RETAINING WALL AND PROVIDING FENCING AROUND THE SWITCH YARD OF GRID SUBSTATION KENDRAPADA. " in single part bidding system. The interested bidders would be required to enroll themselves on the tender portal www.tenderwizard.com/OPTCL. Complete set of bidding documents shall be available at www.tenderwizard.com/OPTCL from 26.02.2014 (11.00 Hrs) up to 12.03.2014 (12.30 Hrs). Interested contractors 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 OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL only.

GENERAL MANAGER (Elect.)

E.H.T. (O&M) Circle, OPTCL, Cuttack



NOTICE INVITING TENDER
ODISHA POWER TRANSMISSION CORPORATION LTD.,
OFFICE OF THE GENERALMANAGER (ELECT.)
EHT (O & M) CIRCLE, CUTTACK – 753008, DIST- CUTTACK
ODISHA, INDIA.

e-TENDER NOTICE NO: CTC-22/2013-14.

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 as per the following details.

Tender Specification No		GM-EHTM-CTC/E-TENDER/ 22/2013-14
Earnest Money Deposit in Rs		31000.00
Cost of Tender Document in Rs		6300.00
Tender processing fees in Rs		3483/-
Last date of submission & Date of opening of Tender		up to dt- 12.03.2014 (15.00 Hrs)
Sl.No.	Description of works	Qty.
	ERECTION PART.	
1	Earth work excavation in hard soil within initial lead and lift as per the direction of the Engineer-in-charge with supply of all T&P and labour.	526.00 CUM
2	Filling in foundation and plinth with sand well watered and rammed with supply of labour and T&P.	142.05 CUM
3	Cement concrete (1:3:6) with 4cm size hard granite crusher broken metal with supply of all materials, labour and T&P.	71.02 CUM
4	Cement concrete (1:1:5:3) with 4cm size hard granite crusher broken metal with supply of all materials, labour and T&P.	63.41 CUM
5	RCC of M-20 grade concrete with supply of all materials, labour and T&P.	135.85 CUM
6	Rigged smooth centering, shuttering with supply of all materials, labour and T&P.	839.80 SQ,Mtr

7	K.B. Brick masonry in cement mortar (1:6) in foundation and plinth with supply of all materials, labour and T&P.	59.03 CUM
8	12mm thick cement plaster in ratio(1:6) with supply of all materials, labour and T&P.	369.6 SQ.Mtr
SUPPLY PART		
1	Supply and Fixing of Fencing Post made of G.I. Angle (65 x 65 x 6mm size) each of length 3.5Mtr with provision for grouting and fixing of barbed wire on the top, in 4 layers.	205 Nos
2	Supply and fixing of chain linked wire mesh fence of height 2Mtr for 408Mtr= 816 sq. Mtr @ 3kg/sq mtr.	2.45 MT
3	Supply and Fixing of barbed wire in 4 layers on the top of fencing post.	359.00 KG
4	Supply and fixing of GI flat (Dimension 50 mm x 6 mm) to the fence post for earthing and strengthening of wire mess. Flat to be provided in two layers i.e. on the top and bottom of Wiremess.	2.1 MT
5	Supply of steel including all cost & carriage, labour charges for cutting, bending, binding and placing in position for RCC.	5.1 MT

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

The bidders who want to submit bid shall have to pay the tender paper cost as mentioned above (non refundable) including VAT @ 5% in the form of Demand draft drawn in favour of EHT (O&M) Circle, OPTCL Cuttack at the office of the undersigned on or before the last date & time of submission of tender.

The bidders shall have to submit non refundable tender processing fee as mentioned above in the form of Demand draft, drawn in favour of K.S.E.D.C.Ltd, Payable at Bangalore. The said demand draft is to be submitted along with the EMD & tender paper cost at the office of the undersigned on or before the last date & time of submission of tender.

The bidders shall scan the Demand Draft/Pay order towards EMD, Tender paper Cost and 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/OPTCL by clicking on hyper link "Register Me".

**GENERAL MANAGER (Elect.)
E.H.T. (O&M) CIRCLE, CUTTACK**

COMMERCIAL SPECIFICATION.

SECTION-I

INSTRUCTIONS 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.

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

2. Contractors / Vendors / Bidders are requested to follow the below steps for **Registration**:
 - a. Click “Register”, fill the online registration form.
 - b. Pay the amount of Rs. **2247/-** through DD in Favour of **KSEDC Ltd.** Payable at Bangalore.
This registration is valid for one year.
 - c. Send the acknowledgment copy for verification.
 - d. As soon as the verification is being done the e-tender user id will be enabled.
3. After viewing Tender Notification, if bidder intends to participate in tender, he has to use his e-tendering User Id and Password which has been received after registration and acquisition of DSCs.
4. If any Bidder wants to participate in the tender he will have to follow the instructions given below:
 - a. Insert the PKI (which consist of your Digital Signature Certificate) in your System.
(Note: Make sure that necessary software of PKI be installed in your system).
 - b. Click / Double Click to open the Microsoft Internet Explorer (This icon will be located on the Desktop of the computer).
 - c. Go to Start > Programs > Internet Explorer.
 - d. Type www.tenderwizard.com/OPTCL in the address bar, to access the Login Screen.
 - e. Enter e-tender User Id and Password, click on “Go”.
 - f. Click on “Click here to login” for selecting the Digital Signature Certificate.
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.

- Click “Un Applied” to view / apply for new tenders.
- Click on Request icon for online request.
- E Enter the required fields including details of D.D for tender Processing fee.

After making the request Bidders will receive the Bid Documents which can be checked and downloaded by following the steps mentioned below:

- CClick to view the tender documents which are received by the user.
- Tender document screen appears.
- Click “Click here to download” to download the documents.

After completing all the formalities Bidders will have to submit the tender and they must take care of following instructions.

- PPrior to submission, verify whether all the required documents have been attached and uploaded to the particular tender or not.
- NNote down / take a print of bid control number once it displayed on the screen

Tender Opening event can be viewed online.

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, Satyamanyu - 09937140591

2. Division of Specification.

SECTION-I-	INSTRUCTION TO BIDDERS
SECTION-II-	GENERAL CONDITIONS OF CONTRACT
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The Tenderers are required to submit the tenders in single parts.

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, 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. Tenders without the required EMD will be rejected out rightly

The earnest money deposit shall be furnished in shape of **Bank Draft**: -

To be drawn in favour of EHT (O&M) Circle, OPTCL, Cuttack, payable at Cuttack, separately for each LOT.

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 tenderer, the EMD will be refunded after finalization of the tender. In the case of successful Tenderer, this will be refunded only after award of contract & on submission of security deposit in the form of BG/DD.
- (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 tenderer 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, 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 Prevailing Govt. Norms.

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, Cuttack, 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:

- [i] Declaration Form as per **Annexure-I** (duly signed) to be uploaded in .pdf format.
- [ii] Earnest Money (scanned copy is to be uploaded)
- [iii] Abstract of Terms & conditions in prescribed proforma as per **Annexure-II**. To be keyed in, in the bid sheets provided.
- [iv] General Terms & Conditions of contract as per Section-II of the Specification.(All the required documents are to be uploaded.)
- [v] Data on past experience if any **as per** the Specification.(Scanned copy to be uploaded)

[vi] Service Tax Registration certificate, Civil License & 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.

11. General: -

- (i) The tenderer must get him registered in tender portal by paying an amount of Rs. 2247/- through DD in Favour of [KSEDC Ltd.](#) Payable at Bangalore. This registration is valid for one year.
- (ii) The tender paper cost (Form fee non refundable) for an amount of Rs 6300/- is to be paid.
- (iii) The tender processing fee for an amount of Rs 3483/-(Nonrefundable) is to be paid.
- (iv) The EMD amount as specified is to be paid .
- (v) 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.
- (vi) Notice inviting tender shall form part of this specification.
- (vii) The EMD, if any, shall be returned to the unsuccessful bidders after finalization of tender.
- (viii) It should be distinctly understood that the price bid shall contain only details/documents relating to price, as mentioned herein above.
- (ix) **The Tenderer must submit the EMD amount, cost of tender document and Tender processing fee in shape of draft in a sealed cover envelope super scribing the 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.**
- (x) The estimated quantity as indicated in section-III of this tender document for reference. 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.
- (xi) The tenderer must observe all the safety rules while working in EHV environment.

SECTION-II

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

1. Scope of the contract:

The scope of contract covers Renovation of retaining wall around the switchyard of grid substation Kendrapada with providing drainage system in 33 KV side of switch yard area and providing wire mess fencing around the switch yard under EHT (O&M) Division, Choudwar as per the technical specification and price schedule at Section-IV including supply of all materials, labour, T&P, transportation & mobilization to site to complete the work in all respect.

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, Cuttack 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 cost is inclusive of all taxes & duties etc. , but excluding Service tax.
- 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.
- 2.13 Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian Contract Act, failing that in the ODISHA General Clauses Act.

3. **Manner of execution:**

Construction of retaining wall around the switch yard of grid substation Kendrapada as per the specification and providing wiremesh fencing including supply of all the materials like GI angle, GI flat, GI hexagonal wire mesh, Barbed wire etc and take up the work as per instruction of Engineer – in – charge.

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 :- Necessary inspection will be done by the consignee/ Supervising officer during execution of work. The fencing materials are to be inspected by the engineer in charge before taking up the work.

4. **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.

5. **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 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.

6. **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 followed all the safety rules and provide all the required protective equipments to his workmen as they are to work in a surroundings of Extra High Voltage System. OPTCL in no way will be responsible for payment of any compensation.

7. **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 .

8. **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.

9. **Guarantee period: -**

The guarantee period for this contract shall be One Year. 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

10. **SERVICE TAX REGISTRATION No., PAN CARD & CIVIL LICENSE:**

Clear attested Xerox copies of PAN No./ Valid VAT registration & clearance certificate/Civil contractor license issued by Govt of Odisha/Railways /Military, service tax registration number (if applicable) 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, VAT registration, VAT clearance certificate, Service Tax registration number 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.

11. 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 / B.G from any nationalized bank (as per the prescribed format) valid 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, Cuttack may forfeit the whole amount of Security deposit. No interest will be paid on the security deposit so deposited by the contractor 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.

12. Terms of Payment.

90% of the Contract Value in respect of the Erection and supply component shall be paid as per the actual work done basing upon the Joint Measurement Certificate. Balance 10% shall be paid after successful completion of the work , subject to approval of the Guarantee Certificate by the Ordering Authority.

The above payments are subject to submission of the Contract Security-cum-Performance Guarantee by the contracted firm as per Clause 2 of Section-II of the tender specification.

Deduction of Income Tax & Work Contract Tax and reimbursement of Service Tax shall be as per the prevailing norms of OPTCL

13. Penalty for Delay in Completion of Contract

Penalty shall be imposed @ ½% (half percent) of contract price for each calendar week of delay of 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, Cuttack /concerned Asst. General Manager, (O&M) Divisions.

14. 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.

15. 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.

16. Correspondences.

- i) 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.
- 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, Cuttack
(Odisha)

Telephone No.06712300226

FAX No. 06712300547

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

- [ii] **Contractor:** Address

Telephone No.

Fax No.

17. **Outright Rejection of Tenders**

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

- [i] 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.
- [ii] The Tender shall not be submitted telegraphically or by FAX.
- [iii] The prescribed EMD 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 180 days 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 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.

TECHNICAL SPECIFICATION

1. **The Scope of work:** - The scope of works covers the following works.

- i. Construction of RCC retaining wall as per the schedule of quantity around the switch yard.
- ii. Supply and fixing of fence post made of 65 x 65 x 6 mm **hot dip G.I.** angle each of length 3.5 mtr long and. The base of angles is to be grouted up to 1 mtr in the concrete base of the retaining wall. The scope of work covers supply of GI barbed wire (*specify size*) and fixing of the same in four layers on top of the fencing post and supply and fixing of welded hexagonal GI wire mesh (8 SWG) of height 2 Mtr. The scope of work also includes supply of 50 x 6 mm G.I. Flat which is to be welded both on top and bottom of the wire fence for strengthening as well as earthing purpose and connection of the same to the earth mat. *All material supply and erection works shall be strictly as per the enclosed drawing .*

All required Materials will be supplied by the Contractor and are to be purchased from reputed manufacturer. The required tools and tackles, skilled man power for execution of the work will be supplied by the contractor. OPTCL shall in no way be responsible for any type of accident/ loss of the contractor and no compensation in this regards shall be borne by the OPTCL. Damage to OPTCL property by the Contractor during execution of work will be recovered from the bill of the contractor.

Prior to bidding the contractor are advised to inspect the locations.

Mobilization charges if any shall be to the contractor's account.

2. **Supply of Materials:-** All required materials are to be supplied by the Contractor as per relevant IS.. Necessary manufacturer test certificate in triplicate for individual items should be furnished to this office for approval by the undersigned. The materials are to be inspected by the representative of OPTCL before utilization of the same.

3. **Workmanship:-** The work shall be carried out as per standard Civil Engineering procedure & as per the instruction of the site in-charge.

4. **Programme and Progress of work:-**The contractor shall submit the detailed programme of work.

5. **Material Specification:** All materials used for the work should confirm to relevant IS specification. Materials should be of best quality & approved by the Engineer-in-charge before use.

A. G.I.Flat (50 x 6 mm)

(iv)Material : Hot dip Galvanized Iron

(v) Size : 50 x 6 mm

(vi)Standard length : 5 to 6 meters

(vii) Physical : Well fabricated, & acceptable of surface finish .

B. Fencing Post made of GI angle

1. Material: Hot dip Galvanized Iron

2. Size : 65 x 65 x 6 mm GI angle

3. Base height: 3.5 mtr

4. Physical: Well fabricated, & acceptable surface finish .

C. Wire Mesh

1. Material: Hot dip Galvanized Iron

2. Standard wire gauge: 8 SWG Hexagonal GI wire.

3. Standard height: 2 meters

4. Size of mesh: 75 mm

5. Physical : Chain linked, Well fabricated, & acceptable surface finish .

D. GI barbed wire

1. Material: Hot dip Galvanized Iron

2. Standard wire gauge: Double ply twisted barbed wire made out of 5 mm dia GI wire

3. Physical: well fabricated & acceptable surface finish.

SCHEDULE OF QUANTITY

	No	L	B	H	Quantity
1	Earth work excavation in hrd/gravelly soil within 50m initial lead and 1.5m initial lift including rough dressing & breaking clods to maximum				
	5 to 7 cm laying in layers not exceeding 0.3m In depth & as per the direction of the Engineer-in-charge(per 100 cum).				

A	For retaining wall	1	494	0.5	1	247 cum
B	For Drain	1	145	1.5	1.2	261 cum
C	For Sump	1	3	3	2	18 Cum
Total=A+B+C						526 Cum
2	Filling in foundation and plinth with sand well watered and rammed					
A	For retaining wall	1	494	0.5	0.3	74.1cum
B	For Drain	1	145	1.5	0.2	43.5cum
C	For Sump	1	3	3	0.2	1.8 Cum
Total=A+B+C						119.4 Cum
3	Cement concrete(1:3:6) with 4cm size hard granite crusher broken metal.					37.05cu m
A	For retaining wall	1	494	0.5	0.15	32.62cu m
B	For Drain	1	145	1.5	0.15	1.35 Cum
C	For Sump	1	3	3	0.15	71.02 Cum
Total=A+B+C						71.02 Cum
4	Cement concrete(1:1.5:3) with 12mm size hard granite crusher broken metal. For retaining wall only					40.76cu m
A	For Retaining wall portion	1	494	0.15	0.3	21.75 Cum
B	For Drain	1	145	1.5	0.1	0.9 Cum
C	For Sump	1	3	3	0.1	63.41cu m
Total=A+B+C						63.41cu m
5	RCC of M-20 grade concrete with 20 mm down graded crusher broken hard granite chips.					135.85cu m
a.	For foundation portion	1	494	0.5	0.55	135.85cu m
Total						135.85cu m
6	Centering & Shuttering For retaining wall only	2	494		0.85	839.8sq m
7	Labour for cutting,Bending,binding wire straightening,tying the grills,placing in position including cost of M.s. Rod & binding wire etc. complete For retaining wall only					
a.	For foundation portion(10mm)	8	494			3952 mtr

b.	For Retaining wall portion(8mm)	4	494			1976 mtr
c.	Stirups for foundation ring (8mm)	2471	1.55			3830 mtr
d.	Stirups for retaining wall(6mm)	2471	0.6			1482.6
Total-a+b+c+d						11240.6 mtr

8 K.B.Brick masonry in cement Mortar (1:6) in Superstructure.

A	For Drain	2	145	0.25	0.75	54.38 Cum
B	For Sump	4	3	0.25	1.55	4.65 Cum
Total=A+B						<u>59.03</u> Cum

9 12 mm thick cement plaster in cement Mortar (1:6)

A	For Drain in external surface of wall.					
a.	Both side of wall inside plaster of drain	2	145		0.75	217.5sq m
b.	Both side external plastering	2	145		0.2	58 sqm
c.	Both side surface plastering of brick wall	2	145	0.25		<u>72.5 Sqm</u>
Total=a+b+c						348 Sqm
B	For Sump					
a	Four side inside wall plastering of sump	4	3		1.55	18.6 sqm 3.0
b	Four side surface plastering of brick wall	4	3	0.25		<u>Sqm</u>
Total=a+b						21.6 Sqm
Total=A+B						369.6 Sqm

SUPPLY PART

Total Length of Fencing = 408 Mtr

(a) Total number of G.I. Angles (65X65X6mm) each of length 3.5Mtr required to be grouted at 2 MTR apart each other = $408/2+1=205$ nos. Total length of angle = $205 \times 3.5 = 717.5$ mtr @ 5.8 kg/mtr = $717.5 \times 5.8 = 4161$ kg.

Add 10 % extra for corner support = $4161 + 416.1 = 4577.1$ kg say 4.58 MT

(b) Total requirement of 50X6mm G.I. Flat for fixing at the top and bottom of the fencing and connecting to earth mat = $408 \times 2 = 816$ Mtr. + 82 Mtr (10% Extra) = 898 Mtr. Add 5 % extra for wastage = $816 + 40.8 = 856.8$ mtr.

Weight of flat @ 2.45 kg/mtr = $856.8 \times 2.45 = 2099.16$ kg or say 2.1 MT

© Requirement of CHAIN LINKED wire mesh fence (8 SWG) of height 2 Mtr for 408 Mtr = $408 \times 2 = 816$ Sq Mtr.

Weight of wire mess @ 3 kg/ sq mtr = $816 \times 3 = 2488$ kg or say 2.45 MT

(d) Fixing of barbed wire 4 layers on top of the fence post i.e. 4 layers for 408 mtr=2X2X408=1632 mtr. + 163 Mtr(10% Extra) = 1795 Mtr @ 5 mtr/kg = 1795 / 5 = 359 kg

SECTION-III
[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	Declaration form	ANNEXURE-I
2	Abstract of terms and conditions to accompany Section-II of Part-I	ANNEXURE-II
3	Composite Bank Guarantee form for security deposit, payment and performance	ANNEXURE-III
4	Bidders information	ANNEXURE-IV

ANNEXURE - I
DECLARATION FORM

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

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 take up the painting 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 have 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. in the manner, acceptable to ODISHA POWER TRANSMISSION CORPORATION LTD., and for the sum as applicable to *me/us as per clause-11 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 _____ 2014

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).

ANNEXURE-II

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

1(a)	Cost of Tender Document: D.D No & Date.	
1(b)	Earnest money furnished. D.D No. & Date.	
1(c)	Tender Processing Fee: D.D No. & Date.	
2	Contractor's work experience including user's certificate furnished	<i>Yes/N</i> <i>o</i>
3	Completion of work :- Whether agreeable to OPTCL's desired completion period as indicated .	<i>Yes/N</i> <i>o</i>
4	Guarantee:- Whether agreeable to OPTCL's terms. [As per clause-9 of Section-II]	Yes/No
5	Whether agreeable to furnish Composite B.G. in case his tender be successful [As per clause-11 of Section-II]	Yes/No
6.	Terms of payment:- Whether agreeable to OPTCL's terms [As per clause-12 of Section-II]	Yes/No.
7.	Nature of price:- FIRM	Yes/No
8.	Penalty:- Whether agreeable to OPTCL's terms (As per clause-13 of Section-II)	Yes/No
9.	Validity: - Whether agreeable to OPTCL's terms [As per clause-14 of Section-II]	Yes/No
10.	Whether declaration form duly filled in furnished.	Yes/No.
11	Whether scanned copy of HT/MV License furnished.	Yes/No.
12	Whether scanned copy of PAN card furnished.	Yes/No.
13	Whether scanned copy of Service Tax Regd. No. furnished.	Yes/No.

ANNEXURE-III

PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT

PAYMENT AND PERFORMANCE

This Guarantee Bond is executed this _____ day
of _____ 2014 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 Contractor"] which shall include its successors & assigns for execution of the work?

AND WHERE AS the bidder has agreed to execute the work for OPTCL in terms of the said agreement AND

WHEREAS the OPTCL has agreed [1] to exempt the bidder from making payment of Security [2] to release 100% payment of the cost as per the said agreement and [3] to exempt from performance guarantee on furnishing by the bidder to 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 bidder from making payment of Security [2] releasing 100% payment to the bidder 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 Bidder [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 bidder'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 not withstanding any dispute or disputes raised by the Contractor [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 Contractor [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 General Manager , E.H.T.(O&M) Circle, OPTCL, Burla, certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor [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 Contractor [s] and we shall not be relieved from our liability by reason of any such variations or extension being granted to the said Contractor [s] or for any forbearance, act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Contractor [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 Contractor [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 invoked at our place of business at Burla (indicate the name of the branch)in the state of ODISHA.

Not with standing anything contained herein.

- 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 Burla a written claim or demand on or before dt.-----.

Dated _____ Day of _____

For _____

[Indicate the name of Bank]

Witness((Signature, names & address)

1.

2.

ANNEXURE-IV
BIDDER'S INFORMATION

SL NO The bidder shall furnish general information in the following format

NAME OF THE BIDDER

- 1 Address:-
- 2 City
- 3 Pin Code
- 4 Contact person's Name :-
- 5 Telephone No. office & Residence:-
- 6 FAX No:-
- 7 EMAIL:-
- 8 HT/MV License
- 9 SERVICE TAX REGISTRATION NO.
- 10 PAN NO.