

TENDER SPECIFICATION

Sl No	Tender Specification Number	Project
1	BHE/PW/PUR/DHJOP-FENCING/1586	OPAL Dahej Site

Job: Providing fencing at Naphtha/HSD tank & FOPH area for safety & statutory clearance at 2X30MW STG + 4GTG WITH HRSG + 2 UB AT **OPAL, DAHEJ-BHARUCH, GUJARAT**

PRICE BID SPECIFICATION- VOLUME- II



Bharat Heavy Electricals Limited
(A Government of India Undertaking)
Power Sector - Western Region
345-Kingsway, Nagpur-440001

Date
Seal and Signature
Place

T E N D E R S P E C I F I C A T I O N

Sl No	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/DHJOP-FENCING/1586	OPAL Dahej Site

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EARNEST MONEY DEPOSIT: Refer Notice Inviting Tender

LAST DATE FOR Refer Notice Inviting Tender
TENDER SUBMISSION

THESE TENDER SPECIFICATION DOCUMENTS CONTAINING VOLUME-I AND VOLUME- II ARE ISSUED TO:

M/s.

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PLEASE NOTE:

THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

For Bharat Heavy Electricals Limited

ADD. GENERAL MANAGER (Purchase)

Place: Nagpur

Date:

Date

Seal and Signature

Place

Name of the Work: Providing fencing at Naphtha/HSD tank & FOPH area for safety & statutory clearance at 2X30MW STG + 4GTG WITH HRSG + 2 UB AT OPAL, DAHEJ- BHARUCH, GUJARAT

Item No	Description of Item	Unit	Quantity	Unit Rates (Rs) In Figures	Unit Rate in Words (Rs)	Amount (in Rs)
100	EARTH WORK					
101	Earth work in excavation in all types of soil including ash which can be excavated by any means including setting out, leveling, dewatering (but excluding special type of dewatering viz. well point method), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead up to 500 m, spreading/leveling of disposed materials etc all complete for following depths below ground level..					
a	Depth from ground level but not exceeding 2 m	Cum	374.165			
102	Back filling up to any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 200 mm thickness using/with selected materials directly from excavation and compacted as specified including watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following for Each layer compacted so as to achieve at least 90% maximum dry density as per IS-2720 (Part-VII)	Cum	327.877			
200	CONCRETE WORKS					
201	Plain Cement Concrete of grade M20 under foundations/substructure, floors, paving, plinth protection, pipe encasing etc complete with 20 mm nominal size graded aggregate at any depth below finished floor level	Cum	46.289			
202	Providing & Fixing Barbed wire Fencing with RCC M-30 Precast post (0.2x0.2x2.6)m 3.0 mtr C/C with concrete block of 750X750X500, including the cost of required no of providing and fixing turn buckles and straining bolts with flat & hukes for barbed wire fencing as per M/s EIL Standard no. 7-65-402-R3(But excluding the Cost of earth works in excavation, concrete works in foundation which will be paid separately) as per M/s EIL Standard no. 7-65-0402 Rev 3. Reinforcement cost is also included in the item.	Cum	15.678			

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Item No	Description of Item	Unit	Quantity	Unit Rates (Rs) In Figures	Unit Rate in Words (Rs)	Amount (in Rs)
203	Providing and laying Design Mix cement concrete (M-30) conforming to IS:456 & IS 10262-2009 for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in foundation/substructure, under floor etc at any level below finished floor level, any shape, position or thickness etc completed including use of plasticizer/super plasticizer conforming to IS:9103(latest) to achieve required slumps in concrete all complete as per customer specification :clause no.8.3 of Doc. no. 6987-00-16-48-DB01 of Section-C3.6 & drawing.					
	M-30	Cum	5.844			
300	FORMWORK					
301	Fairface plywood / Steel with filmface/laminated formwork below or above finished ground floor level for foundations, columns, beams etc. for all heights where ever specifically mentioned in the drawing.	SQM	330.725			
400	REINFORCEMENT					
402	Taking delivery of steel from BHEL stores/store yard, loading, transporting and unloading at site, straightening, cutting, bending, placing in position at any level, binding in position of steel reinforcements of TMT steel of grade Fe-500 confirming to IS:1786 including cost of binding wire, labour, scaffolding, transportation to & from stores etc Reinforcement shall be provided by M/S BHEL Free of cost.	MT	3.000			

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Item No	Description of Item	Unit	Quantity	Unit Rates (Rs) In Figures	Unit Rate in Words (Rs)	Amount (in Rs)
2000	FENCING AND GATES					
2001	The Galvanized steel barbed wire A1 to IS-278 shall have line wire of ϕ 2.5 mm point wire ϕ 2.0 mm & minimum weight of complete barbed wire shall be 108 gm/RM with 75 mm distance between two barbs, at the height of 2m from FGL @ 150mm c/c total 13 nos. horizontal,1no vertical,2 nos inclined with all necessary fixture as per drw: 7-65-0402.	RM	6507.000			
2002	Supply, fabrication and installing in position and testing galvanised MS Gates out of channels, joists, angles, flats, plates, pipes, welded steel wire mesh & sheets including stiffeners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, bronze aluminium ball bearing arrangements, castor wheels, paintings etc. all complete as per customer specifications : Clause no. 3.10.1 of Doc. no. 6987-046-16-48-JS01 (Part-B) of section C 4.6 & EIL standard specifications : 7-75-0051, 7-75-0052	MT	0.5			
1800	MISCELLANEOUS WORKS					
1801	Providing and applying 3 coats of water proof cement based paint as per IS:5410 of approved make and color on exterior surface at all heights including material, labour, scaffolding, curing etc including primer coat all complete as per customer specifications : Clause no. 2.0 of section C 3.6 & Clause no. 3.6.7 of Doc. no. 6987-046-16-48JS01 (Part-B) of section C 4.6	SQM	338.400			
Grand Total in Rs (in Figures)						
Grand Total in Rs (in Words)						

Date

Place