

TENDER SPECIFICATION

BHE/PW/PUR/UKT-WT/1479

Balance civil work of Overhead Water Tank

AT

GUJARAT STATE ELECTRICITY CORPORATION LIMITED

(1X500MW UKAI, TPS)

(GUJARAT)

VOLUME – II

PRICE BID SPECIFICATION



Bharat Heavy Electricals Limited

(A Government of India Undertaking)

Power Sector - Western Region

345-Kingsway, Nagpur-440001

TENDER SPECIFICATION

BHE/PW/PUR/UKT-WT/1479

**Balance civil work of Overhead Water Tank
AT
GUJARAT STATE ELECTRICITY CORPORATION LIMITED
(1X500MW UKAI, TPS)
(GUJARAT)**

EARNEST MONEY DEPOSIT: Refer Notice Inviting Tender

LAST DATE FOR TENDER SUBMISSION: Refer Notice Inviting Tender

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

M/s.

.....

PLEASE NOTE:
THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

For Bharat Heavy Electricals Limited

AGM (Purchase)
Place: Nagpur
Date:

Bharat Heavy Electricals Limited (PSWR, Nagpur)

Tender Specification no. BHE/PW/PUR/UKT-WT/1479

(Volume- II: Price Bid Specification)

JOB: BALANCE CIVIL WORK OF OVERHEAD WATER TANK						
BOQ Item No.	Item Description	Unit	Qty.	Unit Rates in Figures (In Rs)	Unit Rates in Words (In Rs)	Amount
100	Earth work In excavation, backfilling and disposal including necessary men/women, materials, equipment, loading, transportation, unloading, dewatering etc as per specification, drawing and as directed by engineer- in-charge for the following.					
107	Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness using/with selected materials from compulsorily excavated soil available within a lead upto 500m and compacted as specified including re-excavation of stacked earth, watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.					
a	Each layer compacted so as to achieve at least 95% maximum dry density as per IS-2720 (Part-VII)	CUM	25.00			
109	Extra over ST No. 101, 103, 107 & 108 for carriage of excavated earth/selected materials beyond an initial lead of 500m.					
a	Carriage beyond initial lead of 500m or part thereof but not exceeding 2 km	CUM	25.00			
b	Carriage beyond 2 km or part thereof but not exceeding 3 km	CUM	25.00			
108	Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 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.					
a	Each layer compacted so as to achieve at least 95% maximum dry density as per IS-2720 (Part-VII)	CUM	500			
111	Supplying and filling sand upto any depth under floors, around foundations, plinths etc. in layers not exceeding 250 mm thickness and compacted so as to achieve at least 80% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc all complete.					
		CUM	312.44			

Seal and signature of the bidder

Bharat Heavy Electricals Limited (PSWR, Nagpur)

Tender Specification no. BHE/PW/PUR/UKT-WT/1479

(Volume- II: Price Bid Specification)

1801	Providing and Filling in trenches, plinths, area paving and other underground structures with graded stone aggregate of size range 63 mm to 45 mm in layers not exceeding 230 mm in thickness including breaking of stone boulders to required sizes, filling the interstices with selected sand and compacting to 85 % of original volume of stone stack for all lifts etc. all complete. Payment shall be made for the measurement of the volume of the compacted fill.	CUM	13.88			
110	Buldozing earth for grading of ground including removal of vegetation complete including disposal of debris up to 5kms.	CUM	100.00			
300 FORM WORKS						
300	Providing, fixing and removing formwork at any elevations for all structures, as per specifications and including all labour, material, scaffoldings and centering complete including pockets etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.					
305	Fairface plywood with filmface/laminated formwork above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, domes (dome from El. (+) 27.00 to El. (+) 36.07 m Includes bottom dome, roof dome, circular vertical wall, ring beams, etc), arches, overhead tanks etc. for all heights where ever specifically mentioned in the drawing.	SQM	1023.00			
400	REINFORCEMENT (Reinforcement Steel is in BHEL's Scope of Supply)					
402	Taking delivery from BHEL's store/store yard, loading, transportation and unloading at site, straightening, cutting, bending, placing, in position at any level, binding in position Fe-500 high yield strength steel reinforcements in concrete including cost	MT	25.00			

Bharat Heavy Electricals Limited (PSWR, Nagpur)

Tender Specification no. BHE/PW/PUR/UKT-WT/1479

(Volume- II: Price Bid Specification)

500	WATER PROOFING AS PER SPECIFICATIONS					
501	Providing and mixing approved water proofing compound in concrete or cement mortar for works wherever specified or directed as per specification/ manufacturer's instructions, testing of samples for water proofing etc complete.	KG	200.00			
700	M.S. EMBEDMENTS					
702	Transportation from stores, delivery at work spot, fixing of embedments (in dome from El. (+) 27.00 to El. (+) 36.07 m Includes bottom dome, roof dome, circular vertical wall, ring beams, etc.) , MS inserts, pipes sleeves, rails guide rails, angle pieces, foundation bolts, anchor bolts, rugs of various diameter, plates of diamention as required, including welding, bolting, cutting, drilling, scaffolding, setting etc. all complete.	MT	3.00			
900	DOORS, WINDOWS, VENTILATORS, LOUVERS, ROOF VENTILATORS, ROLLING SHUTTERS, PARTIONS ETC. COMPLETE AT ALL ELEVATION INCLUDING FRAMING, KICK PLATES, STOPPERS AS PER SPECIFICATION AND DRAWINGS (all steel doors, windows and rolling shutters etc. shall be blast cleaned to near white metal surface (Sa 2 1/2), painted with two coat of red oxide zinc primer and finished with two coats of synthetic enamel paint confirming to IS 2074)					
904	Providing and fixing single or double steel door shutters with 45mm thk flush design shutter comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centres including void filled with mineral wool (density as per specification), all fittings, Godrej or equivalent make mortice lock with handle on both sides, shop and final painting etc all complete.	SQM	2.10			

Bharat Heavy Electricals Limited (PSWR, Nagpur)

Tender Specification no. BHE/PW/PUR/UKT-WT/1479

(Volume- II: Price Bid Specification)

908	Providing and fixing steel openable or fixed windows/ventilators with steel sections as per IS:1038, IS:1361 & IS:7452 latest revision. Glazing shall be of 6.0mm thick wired glass panes including all fittings, metal beadings, hold fasts, primer painting	SQM	9.50			
1300	FINISHES, PAINTING TO CONCRETE, PLASTERED SURFACES, SURFACE PREPARATION INCLUDING ALL MATERIALS, LABOUR, SCAFFOLDING ETC. ALL COMPLETE (paints of reputed brand of reputed manufacturer like ici/burger/asian paints or equivalent)					
1310	Providing and applying 3 coats of water proof cement paint of approved make and color on exterior surface at all heights including material, labour, scaffolding, curing etc including primer coat complete as per specification.	SQM	1125.00			
2320	Supply fabrication & delivery at site transportation, loading/unloading of various sizes GI hand railing 32 NB including painting (primer and finish) and fixing as per specification labour and materials complete for medium duty class. Rate shall be inclusive of cost of GI pipes.	MT	1.00			
Total amount in figure						
Total amount in words						