

# **TENDER SPECIFICATION**

**No. PW/NGP/PUR/UKAI-CVL1/446**

FOR

**CIVIL WORKS FOR ID FAN FOUNDATION-2 NOS, ESP COLUMN – 6 NOS,  
DUCT SUPPORT FOUNDATION – 28 NOS , AND STRENGTHENING OF  
6 NOS ESP COLUMN FOUNDATIONS ETC**

AT

**GSECL, UKAI, SONGARH, UNIT-1 (120MW)  
DIST- SURAT, GUJRAT**

## **PART I I – PRICE BID**

**( VOLUME- III )**

## **RATE SCHEDULE**

BOOK NO.



**BHARAT HEAVY ELECTRICALS LIMITED**

*(A GOVERNMENT OF INDIA UNDERTAKING)*

POWER SECTOR - WESTERN REGION

SHREEMOHINI COMPLEX

345-KINGSWAY, NAGPUR - 440 001

# **BHARAT HEAVY ELECTRICALS LIMITED**

(A GOVERNMENT OF INDIA UNDERTAKING)

POWER SECTOR - WESTERN REGION

345, KINGS WAY - NAGPUR 440 001

## **TENDER SPECIFICATION NO. : BHE/PW/PUR/UKAI-CVL1/446**

### **NAME OF THE WORK :**

CIVIL WORKS FOR ID FAN FOUNDATION-2 NOS, ESP COLUMN – 6 NOS, DUCT SUPPORT FOUNDATION – 28 NOS , AND STRENGTHENING OF 6 NOS ESP COLUMN FOUNDATIONS FOR 120 MW UNIT # 1 **GSECL, UKAI, SONGARH, UNIT-1 (120MW)GSECL, DIST- SURAT, GUJRAT**

EARNEST MONEY DEPOSIT: Please see Section-15 of Special Conditions of Contract.

LAST DATE AND TIME FOR

RECEIPT OF OFFERS:

Please visit web page [www.bhel.com](http://www.bhel.com) -> “Tender Notification” and “View Corrigendum”

THESE TENDER DOCUMENTS CONTAINING PART-I TECHNICAL BID VOL –I & II AND PART- II (VOL-III ) PRICE BID, ARE ISSUED TO:

M/s. ....

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### **PLEASE NOTE:**

- 1) **THESE TENDER DOCUMENTS ARE NOT TRANSFERABLE.**
- 2) **TENDERER SHALL NOTE THAT THEIR OFFER WILL BE CONSIDERED SUBJECT TO THE APPROVAL OF BHEL'S CUSTOMER M/s GESCL.**

For Bharat Heavy Electricals Limited

SR MANAGER (PURCHASE)

PLACE: NAGPUR

DATE:

**Bharat Heavy Electricals Limited**  
**Power Sector Western Region: Nagpur**

**TENDER SPECIFICATION NO. NO: BHE/PW/PUR/UKAI-CVL1/446**

**PART- II, PRICE BID (RATE SCHEDULE): VOLUME-III**

<b>Bill Of Quantity for Civil works of ID Fan Foundation-02 nos., ESP Foundation-12 nos. and Duct foundations-28 nos. for UKAI R &amp; M works.</b>					
<b>Item No.</b>	<b>Description of Items</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate in RS</b>	<b>Amount ( Quantity X Rate)</b>
<b>1.0</b>	<b>EXCAVATION</b>				
1.1	Earthwork in <b>excavation</b> in all kinds of ordinary and hard soil (including slushy soil) up to a depth of 2.0 m below ground level and stacking within a lead of 100 m, with necessary shoring, strutting, trimming and dressing of sides etc., including bailing / pumping out of surface water/rain water/sub soil water, cutting minor vegetation, if any, complete .				
a)	All kinds of soil (Ordinary and hard soil)	3000	CU. M.		
b)	Same as item 1.1 above, but for soft rock upto 2.0m below GL requiring chieseling	100	CU. M.		
1.2	Same as Item no-1.1 above but from 2.0 m - 4.0 m depth				
a)	All kinds of soil (Ordinary and hard soil) from 2.0m to 4.0m below GL	1000	CU. M.		
b)	Same as item 1.1 above, but for soft rock from 2.0m to 4.0m below GL requiring chieseling	400	CU. M.		
c)	Same as item no:-1.1 above, but for hard rock / sheet rock requiring blasting upto 2.0m to 4.0m below GL	100	CU. M.		
<b>2.0</b>	<b>BACKFILLING &amp; DISPOSAL</b>				
2.1	Earthwork in <b>backfilling</b> & compacting in layers not exceeding 200 mm around foundations, trenches , below grade slabs and all other locations , as per specs, drawings and as directed by the Engineer.				
a)	With earth obtained from stacks within a lead of 100m	3000	CU. M.		

Item No.	Description of Items	Quantity	Unit	Rate in RS	Amount ( Quantity X Rate)
2.2	Removal of surplus earth & debris beyond battery limit upto 2 Km lead including transportatin, loading and unloading , dumping, stacking, levelling and dressing etc.complete as per specifications and drawings.	2000	CU. M.		
<b>3.0</b>	<b>CONCRETE</b>				
3.1	Supplying, laying in position, compacting and curing as per specification <b>plain cement concrete 1:4:8 using ordinary portland cement</b> of the following mix with 20mm down size aggregates below GL and upto 1.0M above GL , including consolidation of subgrade wherever required.	40	CU. M.		
3.2	Supplying, laying in position, curing as per specifications <b>controlled concrete using ordinary portland cement</b> of the following grades(graded coarse aggregates of 20mm down 12mm down shall be used wherever applicable)				
a)	for all depths below GL and above GL				
	ii) Grade M-25 in foundations, slabs, columns, floors, beams.etc.with min. cement content of 375 kg/m <sup>3</sup>	500	CU. M.		
<b>4</b>	<b>REINFORCEMENT,</b>				
4.1	Supplying,bending, binding, transporting and placing in position HYSD reinforcement conforming to IS:1786. of all diameters and at all elevations using approved quality binding wires as per specifications and drawings including welding of reinforcement to the existing rods as per drawings.	25	M.T.		
<b>5</b>	<b>FORM WORK</b>				
5.1	Supplying, installing, dismantling and removing the following classes 'of <b>formwork</b> as per drawings and specifications at all levels using steel / plywood wood shuttering.	1400	SQ.M.		
5.2	Providing <b>pockets</b> in concrete of sectional area less than 0.1 sq.m in plan by fixing and removing formwork for anchor bolts , pipe sleeves etc. as per drgs including. all materials ,labour etc. complete as per drawings and specifications.				
a)	Up to 300 mm deep	5	Nos.		
b)	301mm to 600mm deep	20	Nos.		
c)	601mm to 1000mm deep	4	Nos.		

Item No.	Description of Items	Quantity	Unit	Rate in RS	Amount ( Quantity X Rate)
	d) 1001 mm to 1500 mm deep	5	Nos.		
6	Taking delivery of foundation <b>hardware supplied by BHEL</b> and transporting to site, fixing in position foundation hardware such as anchor bolts, nuts, washers, anchor assembly etc. as per drawing including fixing to proper level and alignment using contractor's own templates, protecting till handover of the foundation, all complete as per drawings and specifications.	5	M.T.		
7	Supplying & applying suitable Bonding agent by M/s FOSROC or equivalent to be applied on old concrete surfaces as per drawing & as per manufacturer specification.	50	SQ.M.		
8	<b>DISMANTLING OF STRUCTURE</b>				
8.1	Dismantling and removal before modification of the following items in the existing structures with all labour, tools, transport etc. all complete including delivering as directed by Engineer.				
	a) Concrete (plain)	10	CU.M.		
	b) Concrete (rein forced)	250	CU.M.		
	c) Brickwork	25	CU.M.		
	d) Doors, windows, ventilators	10	SQ.M.		
	e) 50 Tk.premix carpet	200	SQ.M.		
	f) Structural steel	2	M.T.		
	g) WBM/soling for roads or paving	200	SQ.M		
				<b>TOTAL</b>	
	REBATE OFFERED ON TOTAL COST				
	NET PRICE QUOTED ( IE TOTAL- REBATE )				
	NET AMOUNT IN WORDS ( RS..... )				