



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

सीएसयू एवं एफपी, जगदीशपुर, जिला- अमेठी (उ०प्र०)


**TENDER FOR MODIFICATION OF RCC FOUNDATION WORKS
AT
FABRICATION PLANT AT JAGDISHPUR**

Tender Enquiry No: BHE/FP/CVL/15-16/20

SECTION IV

BILL OF QUANTITIES AND PRICE SCHEDULE

**BHARAT HEAVY ELECTRICALS LIMITED
(A GOVERNMENT OF INDIA UNDERTAKING)
CSU & FP
Industrial Area
Jagdishpur (UP) 227817**

भारत हेवी इलेक्ट्रिकल्स लिमिटेड			SECTION-IV
(भारत सरकार का उपक्रम),			
सीएसयू एवं एफपी, जगदीशपुर, जिला- अमेठी (30प्र0)-227817			
BILL OF QUANTITIES & PRICE SCHEDULE FOR MODIFICATION OF RCC FOUNDATION WORKS			

S.No.	DESCRIPTION OF WORK	UNIT	QTY.	Quoted Rates (INR)		Amount (INR)
				In Figures	In Words	
1	Cutting/Demolishing of RCC wall with diamond wall saw system. (Depth/ Height of RCC wall will be 1.5 Meter). Rates shall include cutting of concealed RCC reinforcement bars, Tools & Plants, Labour, Machinery, garbage /debris disposal within a lead of 500 meters and cleaning of site as per direction of engineer-in-charge of BHEL.	Sqm	9.97			
2	Cutting/Demolishing of RCC floor with diamond wall saw system. (Depth/ Height/ thickness of RCC floor will be 300mm). Rates shall include cutting of concealed RCC reinforcement bars, Tools & Plants, Labour, Machinery, garbage /debris disposal within a lead of 500 meters and cleaning of site as per direction of engineer-in-charge of BHEL.	Sqm	34.62			
3	Drilling and cleaning holes, supplying and injecting ETA approved chemical (HILTI/CICO/BASF make or equivalent) with the help of dispenser (Hilti HDM500 or equivalent) using hollow drill bit (Dust free drilling) into a hole of dia and depth as per manufacturer/ structural consultant's specification and fixing rebars of the required diameter subsequently. The chemical should have successful usage in wet/water saturated concrete. The chemical should have approved against creep & corrosion. Fixing methodology to be followed as per manufacturers guidelines. Manufacturer to submit re-bar depth calculation based on design loads & other parameters as provided by consultant and in accordance with EOTA-TR-023/029 "guidelines for post installed rebar connections" for approval. Drilling and fixing 16 mm rebar upto foundation depth of 1.5 meter. (1RMT=24 nos. of 16mm rebar in tripple layer i.e. 8 rebars/ layer/meter). Payment shall be made based on width of foundation extended in RM. (Steel shall be paid in seperate item No-8 of this BOQ)	RMT	15.00			
4	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m. (All kinds of soil).	Cum	51.93			
5	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete	Cum	8.66			
6	Cement Concrete of mix 1:3:6 (1 Cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)	Cum	5.19			
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level- mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	65.26			

S.No.	DESCRIPTION OF WORK	UNIT	QTY.	Quoted Rates (INR)		Amount (INR)
				In Figures	In Words	
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. TMT Bars	Kg	5220.96			
9	Covering of Open Trenches, Pits, Drains etc with Chequered Plates of appropriate sizes including cutting, of plate, making holes, providing hookd of MS round bar of 16-20mm dia, placing on open surfaces etc. all complete. Rate shall include labour, T&Ps all complete. (Chequered Plates shall be issued by BHEL as free issue material).	Kg	1000.00			
10	CEMENT PLASTER (IN COARSE SAND): 1:6 (1 cement: 6 coarse sand)	Sqm	100.00			
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	5.00			
12	Supply of Cement Polymer Grout Compound of CICO/Conbextra-GP2 make	Kg	382.00			
13	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete.	Sqm	82.08			
14	Skylight (polycarbonate sheets) : Providing and fixing of 2 mm thick clear embossed polycarbonate sheet (sabic india make) (polycarbonate profile to match with standing seam profile with side laps to be clamped with bare galvalume sheets of 0.55mm (tct) , which can be further seamed with metal roof sheets. Product required is clear embossed with both sides UV stabilizer, having at least 60-80 % transparency, conforming to the relevant IS Code including cutting to shape and size as required including necessary sealants (silicon sealants / butyl sealants for transverse laps). Including all materials, tools & tackles, labour etc. required for completing the work in all respect as per direction of engineer in-charge.	Sqm	52.50			
15	Steel work including providing, cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using Rails for movement of SR Bogie. Rates shall include the supply of rails, cutting, fixing, anchoring, levelling, alignment, grouting all complete. (Grouting compound shall be paid separately in item No: 12 of this BOQ).	Kg	1872.00			
Total Estimated Amount (Excluding Service Tax)=						
(Signature & Seal of Bidder)						