

# TENDER

**TENDER NOTIFICATION NO. - FCX/20211020**

FOR

**Foundation & other allied civil works for Bio-Gas Plant  
inside factory area.**

**PRICE BID**



**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**BHARAT HEAVY ELECTRICALS LIMITED**

**(A Government of India Undertaking)  
BHOPAL – 462 022 (M.P)**

## PREAMBLE OF PRICE BID

**1.0** This Price Bid consists of Three Schedule:

### **1.1 Schedule A**

Schedule A consists of Two Annexure:

Total price of the package combining **Annexure I & Annexure II** to be quoted by the bidders which shall form the basis for comparison for deciding lowest bid. For further processing and award, total quoted amount by the L1 (lowest) bidder for the package shall be used for deriving individual item rate by BHEL based on % (percentage) weightage specified at Annexure I & Annexure II of Price Schedule.

### **1.2 Schedule B**

It consists of details of free issue materials by BHEL.

### **1.3 Schedule C**

It consists of details of tools & tackles provided by BHEL either on higher basis or on free of cost basis which are mentioned in price bid.

**2.0** The work to be carried out under the contract shall, except as otherwise provided in tender conditions, include all labour, materials, tools, plant, equipment, and transport which may be required in preparation of and for full & entire execution and completion of the Works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include waste on materials, carriage and cartage, carrying in return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles as laid down in Technical Specification & elsewhere in Tender Specification.

**3.0** The price bid should not contain any condition. Conditional price Bids shall be summarily rejected.

**4.0** The bidder should not leave any column blank in Price Schedules.

**5.0** Price Quoted shall include all taxes, & duties except **GST**.

**6.0** Unless otherwise specified in the items involving cement, reinforcement steel or structural steel, these items shall be issued free of cost by BHEL.

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION****TENDER NOTIFICATION NO. - FCX/20211020****Price Schedule**

Name of work : Foundation & other allied civil works for Bio-Gas Plant inside factory area.

**SUMMARY**

	Details ANNEXURE	Total Amount (Rs.)
	Total price of the package combining of Annexure-I, Annexure-II & Annexure-III	

Amount in words: Rs.

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Total price of the package combining of Annexure-I , Annexure-II & Annexure-III to be quoted by the bidders which shall form the basis of comparison for deciding lowest bid.

For further processing & award total quoted Amount for the package by the L1 (lowest) bidder shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at Annexure-I , Annexure-II & Annexure-III of Price Schedule.

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A - Annexure: I

Name of work : Foundation &amp; other allied civil works for Bio-Gas Plant inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1		Carriage of material up to 1 km lead by Mechanical transport including, loading, unloading & stacking -1 Km lead			
	1.1.1	a) Lime,Moorum, building rubbish	10.00	cum	0.31
	1.1.2	b) Earth	150.00	cum	5.8705
2		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m; disposed earth to be levelled and neatly dressed.			
	2.6.1	All kinds of soil.	150.00	cum	9.1731
3		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 up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.			
	2.8.1	All kinds of soil.	20.00	cum	1.2368
4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations, etc. in layers not exceeding 20 cm in depth : consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5m	20.00	cum	0.7924
	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	400.00	100sqm	0.9115

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A - Annexure: I

Name of work : Foundation &amp; other allied civil works for Bio-Gas Plant inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
5	**	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:(Cement free issue by the Deptt.)			
a)	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ).	4.00	cum	4.8723
b)	4.1.6	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size ).	10.00	cum	11.98
6	**	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work upto plinth level.(Cement free issue by the Deptt.)			
	5.1.2	a) 1 : 1.5 : 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	30.00	cum	38.24
7		Centering and shuttering including strutting, propping, etc. and removal of form for:			
	5.9.1	a) Foundations, footings, bases of columns, etc. for mass concrete.	30.00	sqm	2.1552
8	Ana. 5.22A.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. <b>(Reinforcement bars will be supplied free of cost from BHEL store).</b>			
		b) Thermo-Mechanically Treated bars.(TMT bars)	1700.00	kg.	5.9476
9	10.2 Ana	Structural steel work welded /riveted/ bolted in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (Structural steel & primer will be issued free of cost from BHEL store)	600.00	kg	3.7019
10	**	12 mm cement plaster of mix:(Cement free issue by the Deptt.)			
	13.4.2	a) 1 : 6 (1 cement : 6 coarse sand) .	15.00	sqm	0.7035

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A - Annexure: I

Name of work : Foundation &amp; other allied civil works for Bio-Gas Plant inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
11		Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.			
	15.2.2	a) 1:4:8 or leaner mix.	2.00	cum	0.3911
12	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	2.00	cum	0.9255
13		Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.			
	15.7.4	In cement mortar.	2.00	cum	0.5358
14		Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge:			
	15.9.2	In cement mortar	2.00	cum	0.6392
15		Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:			
	15.17.2	Channels, angles, tees and flats	1000.00	kg	0.3073
16	15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	1000.00	kg	0.7328
17		Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:			

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A - Annexure: I

Name of work : Foundation &amp; other allied civil works for Bio-Gas Plant inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
	15.43.1	Water bound macadam road	20.00	sqm	0.5834
		Total : Annexure I			90.0106

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

**Price Schedule A - Annexure: II**

Name of work : Foundation &amp; other allied civil works for Bio-Gas Plant inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	Laying / pouring of grouting material as per manufacturer's specification in foundation and plinth. ( <b>Grouting materials will be free of cost from BHEL stores</b> )	1.00	cum	0.5986
2	Supplying and filling in plinth with stone dust under floors, including watering, ramming, consolidating and dressing complete.	30.00	cum	9.3908
	Total : Annexure II			9.9894
	Total : Annexure I + Annexure II			100.0000

**Note.1 . Making of pocket for bolting of machines to foundation shall be under the contractor's scope. Materials(wood/pipe) for making of pocket shall be provided/arranged by BHEL**



FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

**Price Schedule B**

Name of work : Foundation & other allied civil works for Bio-Gas Plant inside factory area.

The following material free issue from BHEL stores.

- 1 Cement
- 2 Reinforcement steel
- 3 Red Oxide primer
- 4 Structural steel
- 5 Grouting material

**Price Schedule C**

Name of work : Foundation & other allied civil works for Bio-Gas Plant inside factory area.

- 1 Hire charges.
    - i) Drill machine @ 252.00/- per day
    - ii) Jack Hammer @108.00/- per day
  - 2 Drill machine/jack hammer rod Rs. 100.00 per rod
  - 3 Electricity charges at Rs.66.00/- per M.T. of fabrication of structural steel
- } (Subject to availability)

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

Scope of work

Name of work : Foundation & other allied civil works for Bio-Gas Plant inside factory area.

The scope of work shall broadly comprise of the following:-

- 1 Foundation and other allied civil works like Pedestal and flooring etc. shall be executed as and when required.
2. The drawing for the above foundation shall be issued as per the requirement.

The above work is indicative in nature and not exhaustive. Any other allied civil works & structural works which shall be required for completion of this work shall be covered under scope of work and as per the instructions of the Engineer- In-charge.