

# TENDER

TENDER NOTIFICATION NO. - **FCX/19201049**

FOR

**Renovation of sewer line 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 of **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**

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**Price Schedule**

Name of work : Renovation of sewer line inside factory area.

**SUMMARY**

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

Amount in words: Rs.

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Total price of the package combining of Annexure-I & Annexure-II 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** of Price Schedule.

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A : Anneuxre - I

Name of work : Renovation of sewer line 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 of			
	1.1.1	a) Lime, Moorum, Building rubbish	10.00	cum	0.1980
	1.1.2	b) Earth	5.00	cum	0.1237
2		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.	0.00	cum	0.0000
3	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 up to 1.5m	5.00	cum	0.1252
4		Excavation trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil.			
	2.10.1.2	Pipes, cables, etc. exceeding 80 mm dia but not exceeding 300 mm dia.	101.86	metre	5.0420
5		Extra rate for quantities of work, executed:			
	2.24.2	In or under foul position, including pumping out water as required.(25% of item no.4 above)	65.00	metre depth	0.8044
6		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:( <b>Excluding the cost of cement</b> ) ( <b>Cement free issue by the Deptt.</b> )			
	4.1.8	a) 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size ).	5.57	cum	4.2103
	4.1.3	b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ).	8.00	cum	6.1609

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Name of work : Renovation of sewer line inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
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. <b>(Excluding the cost of cement) (Cement free issue by the Deptt.)</b>			
	5.1.2	1 : 1.5 : 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	7.00	cum	5.6413
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>			
		Thermo-Mechanically Treated bars.(TMT bars)	1000.00	kg.	2.2119
9		Centering and shuttering including strutting, propping, etc. and removal of form for:			
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	25.00	sqm	1.1619
10	5.12	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size). <b>(Excluding the cost of cement) (Cement free issue by the Deptt.)</b>	2.00	cum	1.9578
11		Coursed rubble masonry (second sort) with hard stone in foundation & plinth with :-( <b>Excluding the cost of cement) (Cement free issue by the Deptt.)</b>			
	7.7.1	Cement mortar 1:6 ( 1 cement : 6 coarse sand).	5.00	cum	4.1167
12		12 mm cement plaster of mix: <b>(Excluding the cost of cement) (Cement free issue by the Deptt.)</b>			
	13.4.2	1 : 6 (1 cement : 6 coarse sand) .	40.00	sqm	1.1861
13		15 mm cement plaster on rough side of single or half brick wall of mix. <b>(Excluding the cost of cement) (Cement free issue by the Deptt.)</b>			
	13.5.2	1 : 6 (1 cement : 6 coarse sand) .	40.00	sqm	1.3672
14		20 mm cement plaster of mix: <b>(Excluding the cost of cement) (Cement free issue by the Deptt.)</b>			

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Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
	13.6.2	1 : 6 (1 cement : 6 coarse sand).	20.00	sqm	0.8100
15	13.18	Neat cement punning.( <b>Excluding the cost of cement</b> )( <b>Cement free issue by the Deptt.</b> )	40.00	sqm	0.2193
16	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50metres lead as per direction of Engineer - in- charge.	5.24	cum	1.5333
17		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.	4.00	cum	0.6774
18	15.25	Dismantling stone slab flooring laid in cement mortar including stacking serviceable material and disposal of unserviceable material within 50 metres lead.	10.00	sqm	0.2203
19		Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within50metres lead as per direction of Engineer-in-charge :			
	1543.1	Water bound macadam road	0.00	Sqm	0.0000
	15.43.2	Bituminous road	0.00	Sqm	0.0000
20		Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :( <b>Cement shall be issued free of cost from BHEL</b> )			
	19.1.2	a) 150 mm diameter.	155.00	metre	8.9233
	19.1.3	b) 200 mm diameter.	98.90	metre	8.2833
21		Providing and laying cement concrete 1 : 5 : 10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design:( <b>Excluding the cost of cement</b> )( <b>Cement free issue by the Deptt.</b> )			
	19.3.2	a)150 mm diameter S.W. Pipe	155.00	metre	13.3364
	19.3.3	b)200 mm diameter S.W. pipe	145.90	metre	14.7579

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## Price Schedule A : Anneuxre - I

Name of work : Renovation of sewer line inside factory area.

Sr. No.	Based on DSR' 2012	Item Description	Qty.	Unit	% Weightage of item amount against total amount
22		Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps:			
	19.5.1	a) 100 mm diameter	20.00	metre	0.1459
	19.5.2	b) 150 mm diameter	20.00	metre	0.1611
23		Making connection of drain or sewer line with existing man-hole including breaking into and making good the walls, floors with cement concrete 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1 : 3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete:( <b>Excluding the cost of cement</b> )(Cement free issue by the Deptt.)			
	19.21.1	For pipes 100 to 250 mm diameter.	15.00	each	1.0845
		Total:			84.4601

## FACTORY CIVIL CONSTRUCTION &amp; MAINTENANCE DIVISION

## Price Schedule A : Anneuxre - II

Name of work : Renovation of sewer line inside factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	Brick work with Ghol bricks of class designation 50 and above in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand) :(Excluding the cost of cement)	9.60	cum	15.5399
	Total :			15.5399
	Total = Annexure-I + Annexure-II			100.0000

**FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**

**Price Schedule B**

Name of work : Renovation of sewer line inside factory area.

The following material free issue from BHEL stores.

- 1 Cement
- 2 Reinforcement Steel

Note: If the contractor fails to return to the department unconsumed portion of total quantities of respective free issue material after completion of work or as and when instructed by Engineer-in-charge, recovery at twice the respective material cost of the item as procured by BHEL shall be made from the contractor's bill(s).

**Price Schedule C**

Name of work : Renovation of sewer line inside factory area.

- 1 Hire charges.
  - i) Drill machine @ 252.00/- per day
- 2 Drill machine rod /jack hammer rod Rs. 100.00 per rod
- 3 Electricity charges at Rs.66/- per M.T. of fabrication of structural steel

} (Subject to availability)