

# TENDER

(NIT NO. TA/TCL/**07**/20-21)

**FOR**

**REPAIR AND MAINTENANCE OF SEWER  
LINES IN BHEL TOWNSHIP BHOPAL.**

## PRICE BID

**SECTION - VI**



**TOWNSHIP CIVIL MAINTENANCE  
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 Schedules:

### **1.1 Schedule A**

Schedule A consists of two Annexures:

1) Annexure-I includes items based on DSR-2012 & Rate analysis.

**Bidders are requested to quote their rates in Percentage above/below/at Par for Annexure-I.**

2) Annexure-II – Scope of work

### **1.2 Schedule B**

Schedule B gives the details of free issue materials given by BHEL.

### **1.3 Schedule C**

Schedule C gives the details of Tools & Tackles provided by BHEL on Chargeable Basis.

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 or reinforcement steel, these items shall be issued free of cost by BHEL.**

**TOWNSHIP CIVIL MAINT. & CONST. DIVISION****SCHEDULE 'A'****Annexure: I****Name of work : Repair and maintenance of sewer lines in BHEL Township Bhopal.**

S.No	It. Code	Description of items	Qty.	Unit	Rate	Amount
1		Carriage of material by mechanical transport including loading, unloading, stacking etc. complete upto 1 km.				
	1.1.2	Earth	10.00	cum	82.78	827.80
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 upto 50 m and lift upto 1.5 m; disposed earth to be levelled and neatly dressed.				
	2.6.1	All kinds of soil	10.00	Cum	129.35	1293.50
3		Excavating 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, inlayers 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				
a	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	50.00	Metre	165.60	8280.00
b	2.10.1.3	Pipes, cables etc. exceeding 300 mm dia. but not exceeding 600 mm dia	50.00	Metre	258.55	12927.50
4		Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth up to 1.5 metre).				
a	2.11	Pipes, cable etc.exceeding 80 mm dia But not exceeding 300 mm dia ( 165.60 X1.35 = 223.56) 135% of item 2.10.1.2)	20.00	Metre	223.56	4471.20
b	2.11	Pipes, cable etc.exceeding 80 mm dia But not exceeding 600 mm dia ( 258.55 X1.35 = 349.04) 135% of item 2.10.1.3)	20.00	Metre	349.04	6980.80
5	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	50.00	Cum	83.80	4190.00
6		Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m:				
	2.28.1	All kinds of soil.	100.00	100 Sqm	935.25	935.25

7		Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level:				
a)	4.1.4 RA	1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	2.00	cum	2471.58	4943.16
b)	4.1.6 RA	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).	1.00	cum	2533.34	2533.34
8	4.11 RA	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	10.00	Sqm	157.83	1578.30
9		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 :				
	5.1.2 RA	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.00	cum	2696.15	5392.30
10	5.2.2 RA	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 - cement : 2- coarse sand :4 - graded stone aggregate 20 mm nominal size).	1.00	cum	3337.06	3337.06
11		Centring and shuttering including strutting, propping, etc. and removal of form for:				
a	5.9.1 RA	Foundations, footings, bases of columns, etc. for mass concrete.	10.00	sqm	155.49	1554.90
b	5.9.3 RA	Suspended floors, roofs, landings, balconies and access platform.	5.00	sqm	301.28	1506.40
c	5.9.6 RA	Columns, pillars, piers, abutments, posts and struts.	5.00	sqm	349.52	1747.60
12	RA 5.22.6/ 5.22.6A	Steel Reinforcement for RCC work i/c straightening, cutting, bending, placing in position and binding all complete upto/above plinth level :TMT bars (excluding cost of steel bars)	100.00	kg	7.40	740.00
13		Coursed rubble masonry (second sort) with hard stone in foundation & plinth with :-				
	7.7.1 RA	Cement mortar 1:6 (1 cement : 6 coarse sand).	10.00	cum	2754.46	27544.60
14		Coursed rubble masonry (second sort) with hard stone in foundation & plinth with (excluding the cost of stone) :-				
	7.7.1 RA2	Cement mortar 1:6 (1 cement : 6 coarse sand).	5.00	cum	1847.95	9239.75
15	10.1 (RA)	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete (excluding the cost of steel and primer).	100.00	Kg	8.04	804.00

16		12 mm cement plaster of mix:				
	13.4.2 RA	1 : 6 (1 cement : 6 coarse sand).	25.00	sqm	99.21	2480.25
17		15 mm cement plaster on the rough side of single or half brick wall of mix:				
	13.5.2 RA	1 : 6 (1 cement : 6 coarse sand).	50.00	sqm	114.32	5716.00
18	13.18 RA	Neat cement punning.	50.00	sqm	18.34	917.00
19		Demolishing cement concrete manually/by mechanical means including disposal of material within 50 metres lead as per direction of Engineer Incharge.:				
	15.2.2	Nominal concrete 1:4:8 or richer mix (i/c equivalent design mix).	2.00	cum	413.65	827.30
20	15.3	Demolishing RCC work manually/by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer Incharge.	2.00	cum	978.95	1957.90
21	15.7.4	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 Incharge.				
		In cement mortar.	2.00	cum	566.60	1133.20
22	15.9.2	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:				
		In cement mortar.	10.00	cum	676.05	6760.50
23	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 m lead.	50.00	Sqm	15.00	750.00
24		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 :				
a)	19.1.1 RA	100 mm diameter	50.00	Meter	133.59	6679.50
b)	19.1.2 RA	150 mm diameter	50.00	Meter	192.60	9630.00
c)	19.1.3 RA	200 mm diameter	20.00	Meter	280.17	5603.40
d)	19.1.4 RA	250 mm diameter	20.00	Meter	381.87	7637.40
e)	19.1.5 RA	300 mm diameter	50.00	Meter	381.87	19093.50
25		Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:				
a)	19.2.2 RA	150 mm diameter S.W. pipe	25.00	Meter	457.06	11426.50
b)	19.2.3 RA	200 mm diameter S.W. pipe	10.00	Meter	532.82	5328.20
c)	19.2.4 RA	250 mm diameter S.W. pipe	10.00	Meter	616.15	6161.50
26		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 :				
a)	19.3.1 RA	100 mm diameter S.W. pipe	50.00	Meter	177.62	8881.00
b)	19.3.2 RA	150 mm diameter S.W. pipe	50.00	Meter	287.87	14393.50
c)	19.3.3 RA	200 mm diameter S.W. pipe	20.00	Meter	338.38	6767.60
d)	19.3.4 RA	250 mm diameter S.W. pipe	20.00	Meter	393.93	7878.60
e)	19.3.5 RA	300 mm diameter S.W. pipe	50.00	Meter	393.93	19696.50

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	<b>ANNEXURE-II</b>
<b>SCOPE OF WORK</b>	
<b>Name of work : Repair and maintenance of sewer lines in BHEL Township Bhopal.</b>	
Scope of work is inclusive of but not limited to the following activities in scattered areas of N'hoods in the existing network of sewer lines:-	
<b>S. No.</b>	<b>Description of Activities</b>
<b>1</b>	Earth work in excavation and backfilling.
<b>2</b>	Dismantling of old Stone Ware glazed pipes.
<b>3</b>	Dismantling of old Brick Work & Coarse Rubble Masonry in manhole chambers.
<b>4</b>	Dismantling of old PCC or RCC work.
<b>5</b>	PCC work of 1:2:4 and 1:3:6.
<b>6</b>	Brick work & Coarse Rubble Masonry work.
<b>7</b>	Laying of RCC & Stone Ware glazed pipes.
<b>8</b>	Erection of Manhole chambers.
<b>9</b>	The work is to be done under foul condition for which necessary arrangements like cleaning of manholes, sewage, scum, removal of silt, removal of flowing sewage through manual/mechanical means, blocking and diversion of running sewer line to be done by the agency at its own cost. No extra payment shall be admissible for these supporting enabling works over & above the awarded rate.
The above scope may undergo some minor changes based on final requirement. of BHEL.	
Signature of Contractor	

SCHEDULE – “B”								
<b>Name of work : Repair and maintenance of sewer lines in BHEL Township Bhopal.</b>								
Issued free of cost at Gadia Store/ sub-division								
1. Cement								
2. TMT bar / Reinforcement steel								
3. Structural steel								
4. Primer								
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-incharge, recovery at twice the respective material cost of the item as procured/decided by BHEL shall be made from the contractor's bill(s).								
SCHEDULE – “C”								
-----NIL-----								
Signature of Contractor								