

# TENDER

(NIT NO. TA/TCL/**32**/20-21)

**FOR**

**CIVIL WORKS FOR 20 KLD EFFLUENT  
TREATMENT PLANT (ETP) FOR BIO-MEDICAL  
WASTES AT KASTURBA HOSPITAL, 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 single Annexure:

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

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

### **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 : Civil Works for 20 KLD effluent treatment plant (ETP) for bio-medical wastes at Kasturba Hospital, BHEL Township, Bhopal.**

S.No	It. Code	Description of items	Qty.	Unit	Rate	Amount
1	1.1	Carriage of materials by mechanical transport including loading, unloading and stacking.				
a	1.1.1	Lime, moorum, building rubbish (Lead upto 1 km)	5.00	Cum	66.23	331.15
b	1.1.2	Earth (Lead upto 1 km)	100.00	Cum	82.78	8278.00
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	2.6.1	All kind of soil	270.00	Cum	129.35	34924.50
3	2.7	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.				
	2.7.1	Ordinary Rock	5.00	Cum	197.75	988.75
4	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 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 :				
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia	130.00	Metre	165.60	21528.00
5	2.11	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 upto 1.5 metre).				
	2.11 (a)	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia (165.60x1.35=223.56) (135% of item 2.10.1.2)	130.00	Metre	223.56	29062.80
6	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	170.00	Cum	83.80	14246.00

<b>7</b>	2.26	Extra for additional lift of 1.5m or part thereof in excavation/banking excavated or stacked materials.				
<b>a</b>	2.26.1	All Kinds of Soil	75.00	Cum	34.60	2595.00
<b>b</b>	2.26.2	Ordinary or Hard Rock	5.00	Cum	62.00	310.00
<b>8</b>	2.27RA	Suppling and filling in plinth with <b>Stone dust</b> under floors including watering, ramming, consolidating and dressing complete	10.00	Cum	1191.77	11917.70
<b>9</b>	2.28	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.	300.00	100Sqm	935.25	2805.75
<b>10</b>	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
<b>a</b>	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>b</b>	4.1.6 RA	1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).	10.00	Cum	2533.34	25333.40
<b>11</b>	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).	50.00	Sqm	157.83	7891.50
<b>12</b>	5.1	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)	13.00	Cum	2696.15	35049.95
<b>13</b>	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
	5.2.2 RA	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	12.50	Cum	3337.06	41713.25
<b>14</b>	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	3.00	Cum	3556.89	10670.67
<b>15</b>	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
<b>a</b>	5.9.1 RA	Foundations, footings, bases of columns, etc. for mass concrete.	35.00	Sqm	155.49	5442.15
<b>b</b>	5.9.2 RA	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	85.00	Sqm	273.95	23285.75
<b>c</b>	5.9.3 RA	Suspended floors, roofs, landings, balconies and access platform	6.00	Sqm	301.28	1807.68

16	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 20 mm nominal size).	0.50	Cum	3361.12	1680.56
17	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)	2320.00	Kg	7.40	17168.00
18	7.7	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)	30.00	Cum	2754.46	82633.80
19	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 <b>(Free issue Structural Steel)</b>	50.00	Kg	8.04	402.00
20	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.	100.00	Kg	51.92	5192.00
21	12.21.1 RA	Providing gola 75x75 mm in cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10 mm and down gauge) including finishing with cement mortar 1 : 3 (1 cement : 3 fine sand) as per standard design:				
		In 75 x 75 mm deep chase	10.00	Metre	88.20	882.00
22	13.5	15mm cement plaster of mix:				
	13.5.2 RA	1 : 6 (1 cement : 6 coarse sand).	60.00	Sqm	114.32	6859.20
23	13.18 RA	Neat cement punning.	20.00	Sqm	18.34	366.80
24	15.2	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	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	0.50	Cum	413.65	206.83
25	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.	0.50	Cum	978.95	489.48
26	15.7	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	1.00	Cum	566.60	566.60

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SCHEDULE – “B”								
<b>Name of work : Civil Works for 20 KLD effluent treatment plant (ETP) for bio-medical wastes at Kasturba Hospital, BHEL Township, Bhopal.</b>								
Issued free of cost at Gadia Store/ sub-division								
1 Cement								
2 Reinforcement Steel								
3 Structural Steel (Against Item at Sr. No. 19)								
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”								
1. Electricity charges at Rs. 66.00/- per M.T. of fabrication of structural steel								
Signature of Contractor								