

TENDER

(NIT NO. TA/TCL/**21**/22-23)

FOR

**MISCELLANEOUS CIVIL ENGINEERING
WORKS 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 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 :- Miscellaneous civil engineering works 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				
(a)		upto 1 km.				
(i)	1.1.1	Lime, moorum, bldg. rubbish	5.00	cum	66.23	331.15
(ii)	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		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 lead of 50 m.				
	2.8.1	All kinds of soil.	10.00	Cum	130.80	1308.00
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	83.80	1676.00
5		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	100sqm	935.25	935.25
6		Excavating holes more than 0.10 cum & upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc., disposing of surplus excavated soil; as directed within a lead of 50 m and lift upto 1.5 m:				
	2.30.1	All kinds of soil	100.00	each	41.60	4160.00

7		Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level:				
a)	4.1.3 RA	1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	5.00	cum	2576.38	12881.90
b)	4.1.10 RA	1 : 5 : 10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	15.00	cum	2525.19	37877.85
8		Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets,				
	4.2.3 RA	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	2.00	cum	3334.74	6669.48
9	4.17 RA	Making plinth protection 50 mm thick of cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of stone aggregate 40 mm nominal size well rammed & consolidated and grouted with fine sand including finishing the top smooth.	50.00	sqm	263.83	13191.50
10		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
11	5.3 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	3556.89	3556.89
12		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.	20.00	sqm	155.49	3109.80
(b)	5.9.3 RA	Suspended floors, roofs, landings, balconies and access platform.	10.00	sqm	301.28	3012.80
(c)	5.9.5 RA	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	10.00	sqm	251.23	2512.30
(d)	5.9.6 RA	Columns, pillars, piers, abutments, posts and struts.	10.00	sqm	349.52	3495.20
13	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)	200.00	kg	7.40	1480.00

14		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
15		Coursed rubble masonry (second sort) in foundation & plinth with deptt. Stone with				
	(RA) 7.7.1	Cement mortar 1:6 (1 cement : 6 coarse sand). - (excluding the cost of stone)	10.00	cum	1847.95	18479.50
16	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).	500.00	kg	8.04	4020.00
17	RA 11.29.1	40 mm thick undressed stone flooring over 20 mm (average) thick base of morum mortar including pointing with cementmortar 1 : 2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone with red sand stone. (excluding the cost of red sand stone)	100.00	sqm	258.67	25867.00
18		12 mm cement plaster of mix:				
	13.4.2 RA	1 : 6 (1 cement : 6 coarse sand).	50.00	sqm	99.21	4960.50
19		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
20	13.18 RA	Neat cement punning.	50.00	sqm	18.34	917.00
21	13.33.2 RA	Pointing on stone work with cement mortar 1 : 3 (1 cement : 3 fine sand):				
		Raised and cut pointing.	20.00	sqm	190.45	3809.00
22		Colour washing such as green, blue or buff to give an even shade :				
	13.39.1 RA	New work (two or more coats) with a base coat of white washing with lime	100.00	sqm	16.08	1608.00
23		Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sqm and under including cutting the patch in proper shape raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 meters lead				
	14.1.1 RA	With cement mortar 1 : 4 (1 cement : 4 fine sand).	50.00	sqm	145.34	7267.00
24		Finishing walls with acrylic smooth exterior paint of required shade: (Excluding cost of exterior paint)				
	14.66.1 RA	Old work (Two or more coats applied @ 1.67 ltr/10 sqm) on existing cement paint surface.	100.00	sqm	23.10	2310.00

25		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 leaner mix (i/c equivalent design mix).	1.00	cum	413.65	413.65
26	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.	1.00	cum	978.95	978.95
27	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.	1.00	cum	566.60	566.60
28	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.	1.00	cum	676.05	676.05
29	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
30	15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	5.00	cum	101.75	508.75
31		Stacking of the material including supply at site as per instruction of Engineer-in-charge :-				
	16.3.6 RA	Stone Aggregate : 12.5 mm nominal size	5.00	cum	1279.85	6399.25
	16.3.7 RA	Stone Aggregate : 6 mm nominal size	5.00	cum	1318.56	6592.80
	16.3.8 RA	Coarse sand	10.00	cum	1340.68	13406.80
32		Fencing with R.C.C./Angle iron posts placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire 9.38 kg per 100 metres (min) between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately):-Payment to be made per metre cost of total length of barbed wire used.				
	16.17.1 (RA)	With G.I. Barbed wire. (excluding cost of Barbed wire)	500.00	mtr	2.01	1005.00

33	16.19 (RA)	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia etc. complete.(Excluding cost of angle iron)	100.00	kg	10.29	1029.00
34	6.2.2 RA	Brick work with Ghol bricks having compressive strength not less than 50 Kg/cm ² in foundation and plinth in : Cement mortar 1:6 (1 cement : 6 coarse sand).	4.00	Cum	6063.80	24255.20
35	6.3.2 RA	Brick work with Ghol bricks having compressive strength not less than 50 Kg/cm ² in super structure above plinth level upto floor V level in all shapes and sizes in cement mortar 1:6 (1cement:6 Coarse sand) .-with modular bricks	1.00	Cum	6613.04	6613.04
36	6.13.2 RA	Half brick masonry with Ghol bricks having compressive strength not less than 50 Kg/cm ² in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand) .	20.00	Sqm	800.40	16008.00
					Total Rs.:	2,85,413.41
		Percentage quoted by the Contractor	%	Above	Below	At Par
		Percentage quoted by the Contractor in words				
Signature of Contractor						

SCHEDULE – “B”							
Name of work :- Miscellaneous civil engineering works in BHEL Township, Bhopal.							
Issued free of cost at Gadia Store/ sub-division							
1	Cement						
2	Reinforcement Steel						
3	Stone for CR Masonary (Against Item at Sr. No. 15)						
4	Structural Steel (Against Items at Sr. Nos. 16)						
5	Red Sand Stone (Against Item at Sr. No. 17)						
6	Barbed Wire (Against Item at Sr. No. 32)						
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							