

# TENDER

(NIT NO. TA/TCL/**34**/21-22)

**FOR**

**MISCELLANEOUS CIVIL WORKS FOR WATER  
SUPPLY 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 GST Compliant DSR-2012 & Rate Analysis.

**Bidders are requested to quote their rate 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 : Miscellaneous civil works for water supply 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 Surface Excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm. on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed:				
	2.1.1	All kinds of soil.	500.00	100 sqm	3786.95	18934.75
3		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	150.00	Cum	129.35	19402.50
4		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				
	2.8.1	All kinds of soil.	50.00	Cum	130.80	6540.00
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	100.00	Cum	83.80	8380.00
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	2.32	Clearing grass and removal of the rubbish upto a distance of 50 m outside the peripheri of the area cleared.	500.00	100 sqm	247.00	1235.00

8		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).	50.00	cum	2576.38	128819.00
b)	4.1.10 RA	1 : 5 : 10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	50.00	cum	2525.19	126259.50
9		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).	100.00	cum	2754.46	275446.00
10		Coursed rubble masonry (second sort) in foundation & plinth with deptt. Stone with				
	7.7.1 RA*	Cement mortar 1:6 ( 1 cement : 6 coarse sand). - (excluding the cost of stone)	20.00	cum	1847.95	36959.00
11		Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.				
	7.8.2 RA	Masonry work (second sort) in cement mortar 1:6 ( 1 cement : 6 coarse sand).	150.00	cum	3303.35	495502.50
12	11.29.1 RA	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)	50.00	sqm	258.67	12933.50
13	12.8 RA	Providing asbestos/non-asbestos high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (as per IS : 14871 ) roofing up to any pitch and fixing with Polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. Plain and bitumen washers or with self drilling fastner and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required (excluding the cost of Non-Asbestos fibre cement corrugated sheet)	300.00	sqm	52.32	15696.00
14		12 mm cement plaster of mix:				
	13.4.2 RA	1 : 6 (1 cement : 6 coarse sand).	50.00	sqm	99.21	4960.50
15		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).	100.00	sqm	114.32	11432.00
16		20 mm cement plaster of mix:				
	13.6.2 RA	1 : 6 (1 cement : 6 coarse sand).	200.00	sqm	135.50	27100.00
17		6 mm cement plaster of mix:				
	13.16.1 RA	1 : 3 (1 cement : 3 coarse sand).	100.00	sqm	79.42	7942.00

18	13.28.3 RA	12 mm thick plain cement mortar bands in cement mortar 1 : 4 (1 cement : 4 fine sand):				
		Raised band	50.00	cm per mtr	2.54	127.00
19	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
20		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
21		Demolishing cement concrete manually/by mechanical means including disposal of material within 50 metres lead as per direction of Engineer Incharge.:				
a)	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix).	5.00	cum	671.05	3355.25
b)	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix).	5.00	cum	413.65	2068.25
22	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.	50.00	cum	566.60	28330.00
23	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.	50.00	cum	676.05	33802.50
24	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.	500.00	kg	1.55	775.00
25	15.19	Dismantling steel work manually/by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer Incharge.	500.00	kg	1.05	525.00
26	15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	50.00	sqm	73.70	3685.00
27	15.28.2	Dismantling roofing including ridges, hips valleys and gutters, etc., and stacking the material within 50 metres lead of:				
		Asbestos sheet	50.00	sqm	21.60	1080.00

28	6.2.2 RA	Brick work with Ghol bricks having compressive strength not less than 50 Kg/cm <sup>2</sup> in foundation and plinth in : Cement mortar 1:6 (1 cement : 6 coarse sand).	30.00	Cum	4946.64	148399.20
29	6.3.2 RA	Brick work with Ghol bricks having compressive strength not less than 50 Kg/cm <sup>2</sup> in super structure above plinth level upto floor V level in all shapes and sizes in cement mortar 1:6 (1cement:6 Coarse sand) .	25.00	Cum	5495.88	137397.00
30	6.13.2 RA	Half brick masonry with Ghol bricks having compressive strength not less than 50 Kg/cm <sup>2</sup> in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	10.00	Sqm	670.79	6707.90
31	Non-DSR (12.50 RA)	Providing and fixing of precast galvalume steel sheet having maximum of pitch of 200 to 210 mm c/c and minimum 30mm crest depth in length as per site requirement. The supplied material is to be manufactured out of 0.50mm TCT (total coated thickness) and 550MPA tensile strength, with zinc aluminium alloy of AZ150 (As per IS 15961:2012). The sheet shall have a hot dip metallic zinc aluminium alloy coating of zinc (43.4%), silicon (1.6%) and aluminium (55%) with total coating mass of 150 gms/sqm (total both surfaces). The sheet shall be fixed using self drilling/self tapping screws with EPDM seal fixed to the existing M.S. purlins/ runners/ rafters/ trusses complete including cutting to size & shape wherever required as per drawing and as directed by engineer-in-charge.	250.00	Sqm	594.24	148560.00
32	15.41	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead	250.00	Sqm	15.85	3962.50
33	Non-DSR (12.51.2 RA)	Providing and fixing of precast galvalume steel sheet roofing accessories as per site requirement. The supplied material is to be manufactured out of 0.50mm TCT (total coated thickness) and 550MPA tensile strength, with zinc aluminium alloy of AZ150 (As per IS - 15961:2012). The sheet shall have a hot dip metallic zinc aluminium alloy coating of zinc (43.4%), silicon (1.6%) and aluminium (55%) with total coating mass of 150 gms/sqm (total both surfaces). : Flashing / Aprons (upto 600mm).	30.00	Mtr	602.50	18075.00

[illegible]

**ANNEXURE-II****SCOPE OF WORK**

**Name of work : Miscellaneous civil works for water supply in BHEL Township,**

Scope of work shall, broadly, be inclusive of but not limited to the following activities :-

<b>S. No.</b>	<b>Description of Activities</b>
<b>1</b>	WS store PCC work including earth work, PCC 1.5:10 & PCC 1:2:4
<b>2</b>	Dismantling of Non asbestos fibre cement corrugated sheet and fixing of pre-coated galvanized iron profile sheet as per schedule in WS store and Water Supply office Piplani.
<b>3</b>	Repairing and construction of water supply CI sluice valve chambers as per actual requirement or direction of Engineer-in-charge.
<b>4</b>	Repairing of approaches of Sumps & Overhead Tank.
<b>5</b>	Construction/Modification of existing recharge pond weir in Township as and where required as per direction of Engineer-in-charge.
<b>6</b>	Plaster and pointing of water supply chamber as per schedule.
<b>7</b>	Other miscellaneous work as describe in schedule or as per direction of Engineer-in-charge.
<b>8</b>	Size of chambers is 1.5 mtr. X 1.5 mtr. Or as per existing chambers.
<b>9</b>	Scope of work may be change as per actual requirement of site with direction of Engineer-in-charge.
<b>10</b>	Whenever required, civil/repair works on Water Treatment Plant (WTP), Jail Hill, Bhopal will be executed by the department.

**Note:**

- (i) The above scope of work may undergo some minor changes based on final requirement of BHEL.
- (ii) The work may be required to be carried out in different locations scattered all over BHEL Township at Bhopal.

Signature of Contractor



SCHEDULE – “B”								
Name of work : Miscellaneous civil works for water supply in BHEL Township, Bhopal.								
Issued free of cost at Gadia Store/ sub-division								
1	Cement							
2	Hard Stone against Item No. 10 of Annexure-I							
3	Rad sand stone against Item No. 12 of Annexure-I							
4	Asbestos/non-asbestos sheet against Item No. 13 of Annexure-I							
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								