

TENDER

(NIT NO. TA/TCL/**06**/20-21)

FOR

**Repair & replacement of plumbing
and sanitary fittings in residential/
non-residential buildings 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 DSR-2012 & Rate Analysis.

Bidders are requested to quote their rates 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: Repair & replacement of plumbing and sanitary fittings in residential/non-residential buildings in BHEL Township, Bhopal.						
S.No	It. Code	Description of items	Qty.	Unit	Rate	Amount
1		Carriage of materials by mechanical transport including loading, unloading, stacking etc. complete upto 1 km.				
	1.1.1	Lime, moorum, bldg. rubbish	15.00	cum	66.23	993.45
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	15.00	Cum	129.35	1,940.25
3		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).	2.00	cum	2,576.38	5,152.76
b)	4.1.10 RA	1 : 5 : 10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	4.00	cum	2,525.19	10,100.76
4		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)	2.00	cum	2,754.46	5,508.92
5	11.3.1 RA	Cement concrete flooring 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate). Finished with a floating coat of neat cement including cement slurry but excluding the cost of nosing of steps, etc. complete:				
		40mm thick with 20mm nominal size stone aggregate.	50.00	sqm	178.15	8,907.50
6		Providing and fixing on wall face unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.				
		(i) Single socketed pipes				
a)	12.41.1 RA	75 mm dia.	50.00	Mtr	112.50	5,625.00
b)	12.41.2 RA	110 mm dia.	50.00	Mtr	183.33	9,166.50

7		Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion:				
a)		Single tee with door.				
(i)	12.42.3.1 RA	75x75x75 mm	20.00	Each	178.88	3,577.60
(ii)	12.42.3.2 RA	110x110x110 mm.	20.00	Each	259.29	5,185.80
b)		Bend 87.5 degree				
(i)	12.42.5.1 RA	75 mm bend	20.00	Each	88.06	1,761.20
(ii)	12.42.5.2 RA	110 mm bend	20.00	Each	130.25	2,605.00
c)		Shoe (Plain).				
(i)	12.42.6.1 RA	75 mm Shoe.	20.00	Each	134.85	2,697.00
(ii)	12.42.6.2 RA	110 mm Shoe.	20.00	Each	233.05	4,661.00
8		Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1 : 4 (1 cement : 4 coarse sand) and making good the wall etc. complete:				
a)	12.43.1 RA	75 mm.	20.00	Each	120.40	2,408.00
b)	12.43.2 RA	110 mm.	20.00	Each	135.15	2,703.00
9		12 mm cement plaster of mix:				
	13.4.2 RA	1 : 6 (1 cement : 6 coarse sand).	50.00	sqm	99.21	4,960.50
10		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).	25.00	sqm	114.32	2,858.00
11		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).	2.00	cum	671.05	1,342.10
b)	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix).	4.00	cum	413.65	1,654.60
12	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

13	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.	5.00	cum	566.60	2,833.00
14	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.	2.00	cum	676.05	1,352.10
15		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern,including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:				
	17.1.1 RA	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	10.00	each	2,521.13	25,211.30
16		Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required				
	17.2.2 RA	W.C. pan with ISI marked black solid plastic seat and lid	10.00	each	2,506.89	25,068.90
17		Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				
	17.7.4 RA	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	20.00	No.	1,316.53	26,330.60
18	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
		Kitchen sink with fittings without drain board				
	17.10.2.3 RA	470x420 mm bowl depth 178 mm	7.00	No.	2,514.15	17,599.05

19		Providing and fixing white vitreous china water closet squatting pan (Indian type) :				
	17.13.2 RA	Orissa pattern W.C. pan of size 580x440 mm	100.00	each	1,038.59	1,03,859.00
20		Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
	17.18.1 RA	10 litre capacity - White	10.00	each	675.92	6,759.20
21	17.28.2.1 RA	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
		Flexible pipe 32 mm dia	100.00	each	60.66	6,066.00
22		Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. : Internal work - Exposed on wall.				
a)	18.10.1 RA	15 mm dia. nominal bore	20.00	Mtr	144.99	2,899.80
b)	18.10.2 RA	20 mm dia. nominal bore	20.00	Mtr	168.19	3,363.80
23		Providing and fixing G.I. Pipes complete with G.I. fittings and clamps i/c making good the walls etc. concealed pipe including painting with anticorrosive bitumastic paint, cutting chases and making good the wall				
a)	18.11.1 RA	15 mm dia nominal bore	10.00	Mtr	207.82	2,078.20
b)	18.11.2 RA	20 mm dia nominal bore	10.00	Mtr	226.64	2,266.40
24		Providing and fixing uplasticised PVC connection pipe with brass unions :				
		45 cm length				
	18.21.2.1 RA	15 mm nominal bore	25.00	No.	55.84	1,396.00
25		Providing and fixing PTMT bib cock of approved quality and colour.				
	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	10.00	No.	112.29	1,122.90
26		Providing and fixing PTMT stop cock of approved quality and colour.				
	18.55.1 RA	15 mm nominal bore, 86mm long. Weighing not less than 88 gms.	10.00	No.	112.29	1,122.90
27		Providing and fixing PTMT grating of approved quality and colour.				
a)		Circular type.				
(i)	18.58.1.1 RA	100 mm nominal dia.	50.00	No.	37.67	1,883.50
(ii)	18.58.1.2 RA	125 mm nominal dia with 25 mm waste hole.	50.00	No.	43.59	2,179.50
b)	18.58.2.1 RA	Rectangular type with openable circular lid.				
		150 mm nominal size square 100 mm diameter of the inner hinged round grating.	50.00	No.	106.51	5,325.50

28	18.63 RA	Providing and fixing PTMT angle stop cock 15 mm nominal bore. Weighing not less than 85 gms.	10.00	No.	141.77	1,417.70
29		Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and				
	18.74.2 RA	15 mm nominal bore with 45 cm length.	50.00	No.	60.75	3,037.50
30		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	25.00	Mtr	133.59	3,339.75
b)	19.1.2 RA	150 mm diameter	25.00	Mtr	192.60	4,815.00
31		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)	19.2.1 RA	100 mm diameter S.W. pipe	25.00	Mtr	373.73	9,343.25
b)	19.2.2 RA	150 mm diameter S.W. pipe	25.00	Mtr	457.06	11,426.50
32		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:				
a)	19.5.1	100 mm diameter	25.00	Meter	24.40	610.00
b)	19.5.2	150 mm diameter	25.00	Meter	26.95	673.75
33		Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2				
a)	19.21.1 RA	For pipes 100 to 250 mm diameter	10.00	No.	241.83	2,418.30
34	6.2.2 RA	Brick work with Ghole 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).	2.00	Cum	4,989.06	9,978.12
35	6.4.2 RA	Brick work with Ghole 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) .	1.00	Cum	5,791.75	5,791.75

36	6.13.2 RA	Half brick masonry with Ghole 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) .	10.00	Sqm	675.71	6,757.10
					Total Rs.	3,83,114.26
		Percentage quoted by the Contractor	%	Above	Below	At Par
		Percentage quoted by the Contractor in words				
		Signature of Contractor				

<u>SCHEDULE - "B"</u>					
Name of work: Repair & replacement of plumbing and sanitary fittings in residential/non-residential buildings in BHEL Township, Bhopal.					
1	Cement	}	Issued free of cost at Gadia Store/ sub-division		
<p>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).</p>					
<u>SCHEDULE - "C"</u>					
NIL.....				
	Signature of Contractor				