

TENDER

(NIT NO. TA/TCL/**50**/19-20)

FOR

**CONSTRUCTION OF TOILET BLOCKS IN 02
CHRISTIAN CEMETERIES LOCATED IN
BAIRAGARH & BHADBHADA AREAS OF
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 : Construction of toilet blocks in 02 Christian Cemeteries located in Bairagarh & Bhadbhada areas of 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.				
a	1.1.1	Lime, moorum, bldg. rubbish	5.00	cum	66.23	331.15
b	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	40.00	cum	129.35	5174.00
3	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	30.00	cum	83.80	2514.00
4	2.27 RA	Supplying and filling in plinth with Stone dust under floors, including watering, ramming, consolidating and dressing complete.	3.00	cum	1191.97	3575.91
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.	60.00	100sqm	935.25	561.15
6		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).	3.75	cum	2576.38	9661.43
b	4.1.6 RA	1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).	2.75	cum	2533.34	6966.69
7		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 :				
	5.1.3 RA	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	2.50	cum	2766.27	6915.68

8	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).	5.50	cum	3556.89	19562.90
9		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.	18.00	sqm	155.49	2798.82
b	5.9.3 RA	Suspended floors, roofs, landings, balconies and access platform.	25.00	sqm	301.28	7532.00
c	5.9.5 RA	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	21.00	sqm	251.23	5275.83
d	5.9.6 RA	Columns, pillars, piers, abutments, posts and struts.	15.00	sqm	349.52	5242.80
10	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)	640.00	kg	7.40	4736.00
11		Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.				
		Granite of any colour and shade				
a	8.2.2.1 RA	Area of slab upto 0.5 Sqm	2.00	sqm	2589.86	5179.72
b	8.2.2.2 RA	Area of slab over 0.5 Sqm	2.00	sqm	2609.09	5218.18
12	9.119 RA	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.	20.00	mtr	345.79	6915.80

13		Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail.				
		paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the "C" Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-Charge, manufacturer's specification & Drawing.				
	9.120.1 RA	30 mm thick plain PVC door shutter	6.30	sqm	2133.99	13444.14
14		Steel work welded in built up sections/framed work including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
	10.25.2 RA	In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works.	200.00	kg	69.38	13876.00
15	11.36 RA	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of Cement Mortar 1:3 (1 Cement :3 Coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.. <u>Note:- Approved make of tile- NITCO:-Magnum series glossy finish tile size 375x250mm, Kajaria:-Plain/printed series glossy finish tile, size-200x300mm, Johnson:- Screen print series glossy finish tile size 200x300mm, Orient Bell Group B-III digital (OD Series)/ Non digital tile size 200x300 mm & Orient Bell Group B-III SD series tile size 300x450 mm size.</u>	60.00	sqm	588.98	35338.80

16	11.37 RA	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours, such as White, Ivory, Grey, Fume, Red Brown, laid on 20mm thick Cement Mortar 1:4 (1 cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.. Note:- Approved make of tile- NITCO:-Crust series matt finish tile size 300x300 mm, Kajaria:-Premium series matt finish tile, size-300x300mm, Johnson:- Classical series matt finish tile size 300x300mm, joint free Lenox series matt finish tile size 300x300mm, Orient Bell Group B-II matt finish & rustic finish tile	25.00	sqm	600.89	15022.25
17		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				
	12.41.2 RA	110 mm dia.	40.00	mtr	183.33	7333.20
18		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:				
		Bend 87.5 degree				
	12.42.5.2 RA	110 mm bend	20.00	each	136.48	2729.60
19		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:				
	12.43.2 RA	110 mm.	20.00	each	135.15	2703.00
20		12 mm cement plaster of mix:				
	13.4.2 RA	1 : 6 (1 cement : 6 coarse sand).	37.00	sqm	99.21	3670.77
21		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).	60.00	sqm	114.32	6859.20
22	13.16.1 RA	6 mm cement plaster of mix:				
		1 : 3 (1 cement : 3 fine sand).	12.00	sqm	79.42	953.04
23	13.18 RA	Neat cement punning.	12.00	sqm	18.34	220.08

24	13.41.1 RA	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade				
		New work (two or more coats) over and including water thinnable priming coat with cement primer.	33.00	sqm	63.79	2105.07
		Make of paint - ' <u>Tractor Acrylic Distemper</u> ' from Asian / ' <u>Duvel Acrylic Distemper</u> ' from AkzoNobel / ' <u>Bison Acrylic Distemper</u> ' from Berger / ' <u>Beauty Premium Acrylic Distemper</u> ' from Nerolac				
		Make of primer - ' <u>Trucare Interior Wall Primer-WT</u> ' from Asian / ' <u>Duvel or ICI Water Based cement Primer</u> ' from AkzoNobel / ' <u>BP Cement Primer(WT)</u> ' from Berger / ' <u>Nerolac Cement Primer Water Thinnable</u> ' from Nerolac				
25	13.47.1 RA	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
		New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	48.00	sqm	70.30	3374.40
		Make of paint - ' <u>Asian / AkzoNobel / Berger /Nerolac.</u>				
		Make of primer - ' <u>Acrylic exterior wall primer</u> ' from Asian / Berger / AkzoNobel / Nerolac.				
26	13.61.1 RA	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
		Two or more coats on new work.	30.00	sqm	50.19	1505.70
		Make of paint - ' <u>Apcolite Premium Gloss Enamel</u> ' from Asian / ' <u>Dulux Gloss Enamel</u> ' from AkzoNobel / ' <u>Luxol High Gloss Enamel</u> ' from Berger / ' <u>Synthetic Enamel Hi-Gloss</u> ' from Nerolac				
27	13.80 RA	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	90.00	sqm	67.68	6091.20
		Make of putty - ' <u>Birla white wall care putty / JK wall putty / Asian wall putty / Sika wall décor putty.</u>				
28	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

29	17.7.4 RA	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 :				
		White Vitreous China Wash basin size 550x400 mm with a single 15 mm C.P. brass pillar tap.	1.00	each	1316.53	1316.53
30		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	2.00	each	1038.59	2077.18
31	17.23.2 RA	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm or 340x410x265mm sizes respectively.	2.00	each	710.61	1421.22
32		Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2.1 RA	Semi rigid pipe : 32 mm dia	2.00	each	60.66	121.32
33		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. :Concealed work etc.				
a	18.8.1 RA	15 mm nominal outer dia .Pipes.	40.00	mtr	198.20	7928.00
b	18.8.3 RA	25 mm nominal outer dia .Pipes.	30.00	mtr	265.31	7959.30
34		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge: External work				
	18.9.3 RA	15 mm nominal outer dia .Pipes.	40.00	mtr	164.28	6571.20
35	18.17.1 RA	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
		25 mm nominal bore	10.00	each	318.57	3185.70
36	18.48 RA	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	2000.00	ltr	5.31	10620.00

37		Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	18.52.1 RA	15 mm nominal bore.	4.00	each	364.18	1456.72
38		Providing and fixing PTMT bib cock of approved quality and colour.	15.00	each	112.29	1684.35
	18.54.1 RA	15mm nominal bore, 86 mm long. Weighing not less than 88 gms.				
39	18.55.1 RA	Providing and fixing PTMT stop cock of approved quality and colour.				
		15 mm nominal bore, 86mm long. Weighing not less than 88 gms.	10.00	each	112.29	1122.90
40		Providing and fixing PTMT, push cock of approved quality and colour.				
	18.57.2 RA	15 mm nominal bore, 80mm long. Weighing not less than 46 gms.	2.00	each	92.61	185.22
41		Providing and fixing PTMT grating of approved quality and colour.				
		Circular type.				
	18.58.1.1 RA	100 mm nominal dia.	10.00	each	37.67	376.70
42		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 :				
	19.1.1 RA	100 mm diameter	20.00	mtr	133.59	2671.80
43	19.2.1 RA	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:				
		100 mm diameter S.W. pipe	20.00	mtr	373.73	7474.60
44		Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
		150 x 100 mm size P type.				
	19.4.2.1 RA	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5.00	each	1002.41	5012.05
45	19.33 RA	Constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	1.00	each	1363.36	1363.36

46	6.4.2 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) .	10.00	cum	5748.71	57487.10
47	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) .	32.00	sqm	670.79	21465.28
			Total Rs.			356850.04
		Percentage quoted by the Contractor	%	Above	Below	At Par
		Percentage quoted by the Contractor in words				
Signature of Contractor						

SCHEDULE – “B”								
Name of work : Construction of toilet blocks in 02 Christian Cemeteries located in Bairagarh & Bhadbhada areas of Bhopal.								
Issued free of cost at Gadia Store/ sub-division								
1 Cement								
2 Reinforcement Steel (against Item at sr. no. 10)								
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								