

MUNICIPAL CORPORATION OF BHILAI

DETAILED ESTIMATE **N.I.T**

कार्य का नाम :- मार्ग क्र. 46 (वर्ग) आवासीय इलाका विविध समूह (सर्व सामग्रीक / शासकीय प्राथमिक / पूर्ण प्राथमिक शाला के निर्माण का संशोधन कार्य)

(As Per PWD Building SOR & Electrical SOR 15.04.2026)

S.N.	PARTICULARS OF ITEMS	No	L	B	H/D	Quantity	UOM
1	Excavation for all types and sizes of foundations, trenches and drains Extra rate for quantity of work executed in or under water and/or liquid mud including pumping out water. (185+51-236)						
		1	3.00	3.00	1.80	16.20	
					G. Total	16.20	Cum
2	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within						
	50 metres lead.	10	2.10	1.20	0.20	5.04	
					G. Total	5.04	Cum
3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within						
	50 metre lead.	1	3.00	3.00	0.15	1.35	
					G. Total	1.35	Cum
4	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)						
		4	5.00	0.20	0.20	0.80	
					G. Total	0.80	Cum
5	Providing and constructing brick masonry road gully chamber 50x45x60 cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C. horizontal grating with frame complete as per standard design.						
				4.00		4.00	
					G. Total	4.00	Each
6	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. (Note :Excess/ less cement used as per design mix is payable/ recoverable separately), 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).						
		1	3.00	3.00	0.10	0.90	
					G. Total	0.90	Cum
7	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:Thermo-Mechanically treated bars						
	Qty. Of RCC 100.00Kg					90.00	
					G.Total	90.00	Kg

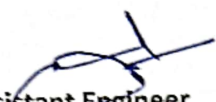
PARTICULARS OF ITEM					Quantity	UOM
No	I	II	III			
	Providing and filling in plinth with sand/crushed brick and hard masonry under floor, including cost of all labour, materials, T & P etc. complete required for the work.					
1	8.00	4.50	0.40		14.40	
				G.Total	14.40	Cum
9	Providing and fixing formwork, including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:					
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)					
	For Septic Tank	1	3.00	3.00	9.00	
				G.Total	9.00	sqm
10	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)					
		2	8.00	3.20	51.20	
		2	4.50	3.20	28.80	
		5	4.10	3.10	63.55	
		8	1.10	3.10	27.28	
	For Septic Tank	2	5.00	1.50	15.00	
	For Septic Tank	4	2.40	1.50	14.40	
				Total (A)	200.23	
	Deduction Door	22	0.90	2.10	41.58	
	Door	2	1.10	2.10	4.62	
	Ventilation	22	0.45	0.45	4.46	
				Total (B)	50.66	
				Total (A-B)	149.58	sqm
11	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)					
		2	7.60	3.10	47.12	
		8	1.10	3.10	27.28	
				G.Total	74.40	sqm
12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)					
		1	8.00	4.50	36.00	
				G.Total	36.00	sqm
13	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. Size 300x300mm					
		4	3.00	4.00	48.00	
				G. Total	48.00	Sqm
14	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall 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 matching pigment complete. Size above 200x300mm					

PARTICULARS OF ITEMS				No	L	B	H/D	Quantity	Unit
				1	6.00		1.00	18.00	
				1	3.00		1.00	21.00	
							G. Total	39.00	Sqm
15	Providing and laying DOUBBLE/SINGLE FLITCH (minimum 20 mm thick layer) VITRIFIED floor tiles with water absorption less than 0.03% and conforming to IS:15622-2017 of 1st quality of approved make in all colours and shades and size mentioned below (4'-10mm) laid on 20mm thick cement mortar 1:4 (Cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.								
				3	4.00	5.00		60.00	
							G. Total	60.00	Sqm
16	Providing and fixing steel door/ window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.								
	Door	2	1.10				2.10	4.62	
	Door	6	0.90				2.10	11.34	
							Total	15.96	Sqm
							G. Total	399.00	Kg
	.@25.00kg/Sqm								
17	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
	Ventilation	8	0.45				0.45	1.62	
							Total	1.62	Sqm
							G. Total	48.60	Kg
	.@30.00kg/Sqm								
18	Providing and applying Synthatic oil bound washable Distemper having VOC content less than 50gms/ lit. Minimum two coats up to final finish to give an even shade applied 1.25 kg / 10Sqm as per relevant I.S. Code 428:2000 (product such as Asian Tractor synthatic distemper, Berger Bison Lite, Dulux Magik, Birla Opus Style super smart) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work.								
	As Per Qty. of 6mm + 12 mm Plaster							185.58	
							G. Total	185.58	Sqm
19	Providing and applying Premium plastic emulsion paint with roller application minimum three coats applied @ 0.75 lit / 10Sqm up to final finish as per relevant I.S. Code 15489:2013 Type -I Class D & C (Glossy and Semi Glossy Finish) of required shade (Product such as Asian Apcolite Premium, Dulux Super Cover, Berger Easy Clean, Nippon Breeze Metex Gold, Opus I-50 / Calista) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work.(with 3 year Warranty)								

PARTICULARS OF ITEMS					Quantity	UNIT
No	I.	II	III			
	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete:				3.00	
	1 lat back half stall urinal of size 460x380x250mm			G. Total	3.00	Each
26	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete:				2.00	
	1 lat back half stall urinal of size 460x380x250mm			G. Total	2.00	Each
27	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.				40.00	
	50 mm thick			G. Total	40.00	Sqm
28	Providing and 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.				2	
				G. Total	2	Each
29	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 150mm thick as per standard design:100 mm diameter S.W. pipe				6.00	
				G. Total	6.00	m
30	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.				10.00	
	110 mm dia			G. Total	10.00	M
	150 mm dia			G. Total	10.00	M
	75 mm dia			G. Total	10.00	M
31	Towel rail (600mm long x 20mm dia)				4	
				G. Total	4	Each
32	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.					
	15 mm nominal outer dia .Pipes.				20.00	
				G. Total	20.00	m
	25 mm nominal outer dia .Pipes.				20.00	
				G. Total	20.00	m

PARTICULARS OF ITEMS					Quantity	UOM
No	I.	II	III	IV		
	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.					
					1500.00	
2	750.00				1500.00	Ltr
				G. Total		
34	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)					
					20	
1	20				20	No
				G. Total		


Executive Engineer
Municipal Corporation
Bhilai


Assistant Engineer
Municipal Corporation
Bhilai


Sub Engineer
Municipal Corporation
Bhilai