MUNICIPAL CORPORATION OF BHILAI

~~DETAILED ESTIMATE~~ N.I.T

कार्य का नाम :– वार्ड क. 41 शंकर नगर, छावनी प्राथमिक/पूर्व माध्यमिक शाला के शौचालय का संधा ण कार्य।

(As Per PWD Building SOR & Elecetric SOR 15.04.2026)

1	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within						
	50 metres lead.	5	2.10	1.20	0.20	2.52	
					G. Total	2.52	Cum
2	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
3	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)						
		2	5.00	0.20	0.20	0.40	
					G. Total	0.40	Cum
4	Providing and constructing brick masonry road gully chamber 50x45x60 cm with well burnt modular clay bricks crushing strength not less than 35kg/cm2 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.						
				2.00		2.00	
					G. Total	2.00	Each
5	Providing and filling in plinth with sand/Crusher dust and hard moorum under floor, including ----- cost of all labour, materials, T & P etc. complete required for the work.						
		1	6.00	3.00	0.40	7.20	
					G.Total	7.20	Cum
6	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)						
		2	6.00		3.20	38.40	
		2	3.50		3.20	22.40	
		3	4.00		3.10	37.20	
		4	1.00		3.10	12.40	
					Total	110.40	sqm
7	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	7.40		3.10	45.88	
		4	1.80		3.10	22.32	
					G.Total	68.20	sqm
8	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)						
		1	6.00		4.00	24.00	
					G.Total	24.00	sqm

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	PARTICULERS OF ITEMS	No	L	B	H/D	Quantity	UOM
	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						
		1	3.00		3.00	9.00	
		1	4.00		2.80	11.20	
					G. Total	20.20	Sqm
10	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						
		1	3.00	3.50		10.50	
					G. Total	10.50	Sqm
11	Providing and laying DOUBLE/MULTI CHARGE (minimum 2.0 mm thick layer) VITRIFIED floor tiles with water absorption less than 0.05% and conforming to IS:15622-2017 of 1st quality of approved make in all colours and shades and size mentioned below (+/- 10mm) laid on 20mm thick cement mortar 1:4 (1cement: 4 coarse sand) including grouting the joints with withe cement and matching pigments etc. complete.						
		1	3.00	2.80		8.40	
					G.Total	8.40	sqm
12	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	1	1.10		2.10	2.31	
	Door	2	0.90		2.10	3.78	
					Total	6.09	Sqm
	@25.00kg/Sqm				G.Total	152.25	Kg
13	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
	@30.00kg/Sqm				G.Total	48.60	Kg
14	Providing and replacing broken vitreous china water closet squatting pan (Indian type) including removing the broken squatting pan and mortar, cutting and making good the walls and floors wherever required; White Long pattern W.C. pan of size 580 mm						
		2				2.00	
					G. Total	2.00	Each

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	PARTICULERS OF ITEMS	No	L	B	H/D	Quantity	UOM
15	Providing and applying Synthatic oil bound washable Distemper having VOC content less than 50gms/ lit. Maximum 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					134.40	
					G.Total	134.40	sqm
16	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 -1 Class D & C (Glossy and Semi Glossy Finish) of required shade (Product such as Asian Apcolite Premium , Dulux Super Cover, Berger Easy Clean , Nippon Breezee 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)						
	As Per Qty. of 6 mm + 12 mm Thick Plaster					134.40	
					G. Total	134.40	Sqm
17	Providing and applying on exterior surface with PREMIUM Exterior emulsion paint of required shade to give protective and water proof finish minimum 3 coats applied @ 1.40 lit / 10Sqm up to final finish as per relevant I.S. Code 15489:2013 Type -2 Class D , C (Glossy /Semi Glossy finish) (Product such as Asian Apex , Dulux Weather Shield Prima E900 , Berger Weathercoat Antidust , Nerolac Everlas Excel , Nippon Sumo Etra, Opus True flex) inclusive of providing abro tape on edges and articleand cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work.(With 3Year Warranty.)						
	As Per Qty. of 15 mm Plaster					68.20	
					G.Total	68.20	sqm
18	Providing and applying satin/ matt finish Enamel paint mimimum 2 coats in all surface applying @ 0.75 lit/ 10 Sqm up to required finish as per relevent I.S. code 2932: 2013 of (Product such as Asian satin Enamel, Dulux Promise Premium Enamel, Nerolac Synthatic Enamel, Opus Prime enamel) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackle and labour etc. complete for the work.						
		3	1.10		2.10	6.93	
		5	0.90		2.10	9.45	
		4	0.45		0.45	0.81	
					G. Total	17.19	Sqm

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	PARTICULERS OF ITEMS	No	L	B	H/D	Quantity	UOM
	providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required						
	White pedestal type			1		1.00	
					G. Total	1.00	Each
20	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required						
	White Size 550x450 mm			2		2.00	
					G. Total	2.00	Each
21	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete:						
	Flat back half stall urinal of size 460x380x250mm			2		2.00	
					G. Total	2.00	Each
22	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete:						
	Flat back half stall urinal of size 460x380x250mm			2		2.00	
					G. Total	2.00	Each
23	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.						
	50 mm thick	1	4.00	4.00		16.00	
					G. Total	16.00	Sqm
24	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.						
		1				1	
					G. Total	1	Each
25	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						
		2	2.00			4.00	
					G.Total	4.00	m
26	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.						
	110 mm dia	2	5.00			10.00	
					G. Total	10.00	M
	150 mm dia	2	5.00			10.00	
					G. Total	10.00	M
	75 mm dia	2	5.00			10.00	
					G. Total	10.00	M

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	PARTICULERS OF ITEMS	No	L	B	H/D	Quantity	UOM
	Towel rail (600mm long x 20mm dia)						
		2	2.00			4	
					G. Total	4	Each
28	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						
						500.00	
		1	500.00			500.00	Ltr
					G. Total	500.00	
29	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)						
						10	
		1	10			10	No
					G. Total	10	
30	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, havingthermal 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 sameincluding testing of joints complete as per direction of Engineer in Charge.						
	15 mm nominal outer dia .Pipes.					10.00	
		2	5.00			10.00	m
					G. Total	10.00	
	25 mm nominal outer dia .Pipes.					10.00	
		2	5.00			10.00	
					G. Total	10.00	m

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