

MUNICIPAL CORPORATION OF BHILAI

DETAILED ESTIMATE N.I.T.

कार्य का नाम — वार्ड 42 गौतम नगर शीतला मंदिर के पास स्थित भवन व व्यायाम शाला
भवन का संधारण कार्य।

(As Per PWD Building & Electrical SOR 15.04.2026)

S.N.	PARTICULERS OF ITEMS	No	L	B	H/D	Quantity	UOM
1	Demolishing cement concrete including disposal of material within 50metre lead.						
	1:3:6 or richer mix	1	5.00	1.00	0.15	0.75	
					G. Total	0.75	Cum
2	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within						
	50 metres lead.	1	6.00	0.20	0.90	1.08	
					G. Total	1.08	Cum
3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within						
	50 metre lead.	1	5.00	3.00	0.15	2.25	
					G. Total	2.25	Cum
4	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.						
		10	1.20	1.20	1.20	17.28	
					G. Total	17.28	Cum
5	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).						
		10	1.20	1.20	0.10	1.44	
		1	10.00	5.00	0.12	6.00	
					Total	7.44	cum
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 stonenaggregate 20mmnominal size).						
		10	1.20	1.20	0.12	1.73	
		10	1.26		0.45	5.67	
		10	0.20	0.30	0.65	0.39	
		2	10.00	0.20	0.30	1.20	
		4	5.00	0.20	0.30	1.20	
		10	0.20	0.30	2.70	1.62	
		2	10.00	0.20	0.20	0.80	
		2	5.00	0.20	0.20	0.40	



S.N.	PARTICULARS OF ITEMS	No	L	B	H/D	Quantity	UOM
		10	0.20	0.30	0.60	0.36	
		2	10.00	0.20	0.30	1.20	
		2	5.00	0.20	0.30	0.60	
		2	5.00	0.30	0.30	0.90	
		1	10.20	5.20	0.12	6.36	
					G. Total	22.43	Cum
7	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:						
		10	0.20	0.30	2.70	1.62	
		2	10.00	0.20	0.20	0.80	
		2	5.00	0.20	0.20	0.40	
		10	0.20	0.30	0.60	0.36	
		2	10.00	0.20	0.30	1.20	
		2	5.00	0.20	0.30	0.60	
		2	5.00	0.30	0.30	0.90	
		1	10.20	5.20	0.12	6.36	
					G. Total	12.24	Cum
8	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending etc. complete as per drawing including cost of binding wire. All complete. Thermo-Mechanically treated bars FE 415.						
						22.43	
	@100kg/cum of rcc qty				G. Total	2243.28	kg
9	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.						
		2	10.00	0.20	0.05	0.20	
		2	5.00	0.20	0.05	0.10	
					G. Total	0.30	cum
10	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation: i) 1st layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. ii) 2nd layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. iii) 3rd layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with coarse sand @ 1.289 kg/sqm and water proofing cement compound @ 0.07 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. iv) 4th and final layer of brick tiling with cement mortar (which will be paid for separately) For the purpose of measurement the entire treated surface will be measured						
		1	10.20	5.20		53.04	
					G. Total	53.04	sqm

S.N.	PARTICULARS OF ITEMS	No	L	B	H/D	Quantity	UOM
11	Providing and fixing form work including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:						
A	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.						
		10	1.00	0.65	0.90	5.85	
		2	2	10.00	0.30	12.00	
		4	2	5.00	0.30	12.00	
					G. Total	29.85	sqm
B	Columns, Pillars, Piers and likes- rectangular or square in shape.						
		10	2.00	0.50	3.30	33.00	
					G. Total	33.00	sqm
C	Beams, lintels, cantilevers & walls						
		2	2	10.00	0.20	8.00	
		2	2	5.00	0.20	4.00	
					G. Total	4.00	sqm
D	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)						
		2	2	10.00	0.20	8.00	
		2	2	5.00	0.20	4.00	
		2	2.00	5.00	0.45	9.00	
		1	10.20	5.20		53.04	
		2	10.20		0.12	2.45	
		2	5.20		0.12	1.25	
					G. Total	77.74	sqm
12	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	9.60	4.60	0.90	39.74	
					G.Total	39.74	Cum
13	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	8.80	0.20	0.90	3.17	
		4	4.30	0.20	0.90	3.10	
		1	1.20	0.90	0.20	0.22	
		1	1.20	0.60	0.20	0.14	
		1	1.20	0.30	0.20	0.07	
		2	8.80	0.20	2.70	9.50	
		2	4.30	0.20	2.70	4.64	
		2	15.00	0.20	0.10	0.60	
					G.Total	21.44	Cum
14	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:						
		2	8.80	0.20	2.70	9.50	
		2	4.30	0.20	2.70	4.64	
		2	15.00	0.20	0.10	0.60	
					G.Total	14.75	Cum

S.N.	PARTICULARS OF ITEMS	No	L	B	H/D	Quantity	UOM
15	Providing and fixing flush door shutters, conforming to IS : 2202 (Part I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.						
	35 mm. thick (single leaf)	1	0.90		2.10	1.89	
					G.Total	1.89	sqm
16	Providing and fixing factory made uPVC white colour sliding glazed window above 1.50 m in height dimension comprising of uPVC multichambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads, uPVC extruded interlocks and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) touch lock with hook (if required for wire mesh panel), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap						
	Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 2.50 sqm upto 4.00 sqm.)						
		2	1.00		1.20	2.40	
					G.Total	2.40	sqm
17	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.						
		1	0.90	2.10	40.00	75.60	
					G.Total	75.60	kg
18	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 prime						
		4	1.00	1.20	30.00	144.00	
					G.Total	144.00	kg

S.N.	PARTICULARS OF ITEMS	No	L	B	H/D	Quantity	UOM
19	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4 mm thickness						
		2	1.00		1.20	2.40	
					G.Total	2.40	sqm
20	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)						
		1	8.80	4.30	0.30	11.35	
					G.Total	11.35	sqm
21	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)						
		2	13.10		3.00	78.60	
					G.Total	78.60	sqm
22	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)						
		1	15.00		3.90	58.50	
					G.Total	58.50	sqm
23	Providing and making 18mm thick cement plaster in two coats with under layer of 12mm thick plaster 1:5 (1 cement : 5 fine sand) and top layer of 6mm thick with cement plaster 1:3 (1 cement : 3 fine sand) finished rough with sponge.						
		1	15.00		3.90	58.50	
					G.Total	58.50	sqm
24	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 mm thick						
		1	10.20	5.20		53.04	
					G.Total	53.04	sqm
25	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above) Granite stone grey/pink						
		2	0.90	0.20		0.36	
					G.Total	0.36	sqm
26	15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m) Granite stone grey/pink						
		1	1.20	1.50		1.80	
					G.Total	1.80	sqm

S.N.	PARTICULARS OF ITEMS	No	L	B	H/D	Quantity	UOM
27	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, tamping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm Pigment Coloured (rubber mould) precast interlock concrete blocks						
		1	10.00	2.00		20.00	
					G.Total	20.00	sqm
28	Providing and fixing rectified glazed ceramic Floor tiles of 1st quality conforming to IS : 15622-2017 of approved make, in all colours, shades over 20mm 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 600x600mm thickness 8 to 9 mm	1	2.00	0.10		0.20	
					G.Total	0.20	sqm
29	Providing and fixing rectified glazed ceramic wall/dado tiles of 1st quality conforming to IS : 15622-2017 of approved make, in all colours, shades 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						
A	Size 300x450mm thickness 7 to 8mm	2	5.00		0.90	9.00	
					G.Total	9.00	sqm
B	Size 450x900mm thickness 7 to 9mm	2	10.00		0.90	18.00	
					G.Total	18.00	sqm
30	White washing/ Colour washing with lime to give an even shade in Three or more Coats for New surface as per relevant IS code 6278:1971 Consumption of lime 3.50kg /10 Sqm with all tools tackles and labour etc. complete for the work.						
		1	8.80	4.60		40.48	
		2	13.10		2.10	55.02	
		2	15.00		3.90	117.00	
					G.Total	212.50	sqm
31	Providing and applying 2mm thick white cement based polymeric Exterior grade Putty with minimum 3 coats applied @ 5.4 kg/ 10Sqm as per relevant IS code 17545:2021 (Product such as Birla wall care, Asian trucare, JK wall putty, Berger Bison wall putty) to make the surface smooth and even with all tools tackles and labour etc. complete for the work.						
		1	8.80	4.60		40.48	
		2	13.10		2.10	55.02	
					G.Total	95.50	sqm

S.N.	PARTICULARS OF ITEMS	No	L	B	H/D	Quantity	UOM
32	Providing and applying Polymaric cement primer on all surface applied @ 0.80 litres/10 sqm as per relevant I.S. code 15489:1974 (product such as Birla white primacoat/activcoat, Asian Trucare , Dulux Interior cement primer, Opus Calista / 110) with all tool tackles and labour etc. complete for the work .						
		1	8.80	4.60		40.48	
		2	13.10		2.10	55.02	
					G.Total	95.50	sqm
33	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.						
		1	8.80	4.60		40.48	
		1	13.10		2.10	27.51	
					G.Total	67.99	sqm
34	Providing and applying Economy Plastic emulsion paint with roller application minimum three coats applied @ 1.25 lit / 10 Sqm 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 Tractor emulsion , Dulux Promise, Nerolac Bueaty Silver, Berger bison/breeze , Opus I30/ Style Paint) 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 complete for the work . (With 2 Year warranty).						
		1	8.80	4.60		40.48	
		1	13.10		2.10	27.51	
					G.Total	67.99	sqm
35	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.)						
		2	15.00		3.90	117.00	
					G.Total	117.00	sqm

Sl. No.	PARTICULARS OF ITEMS	No	L	B	H/D	Quantity	UOM
36	Providing and applying priming coat on steel work with red oxide/ zinc phosphate primer applied @ 0.50 lit /Sqm as per relevant code 3536:1999 (product such as Asian Zinc phosphate , Dulux Steel primer, Burger Red oxide primer) with all tools tackles and labour etc. complete for the work.						
		4	0.50	1.00	1.20	2.40	
					G.Total	2.40	sqm
37	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).						
		1	1.00	1.50	0.15	0.23	
					Total	0.23	cum
38	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete. SS Grade 304						
		2	1.00		0.70	1.40	
						1.40	
					G.Total	14.00	kg
	@10 kg /sqm						

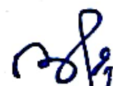
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