

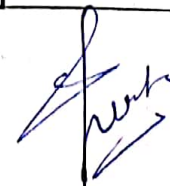
MUNICIPAL CORPORATION BHILAI

NIT

NAME OF WORK - सेक्टर 5 भिलाई नगर स्थित सड़क 12-13 के मध्य सार्वजनिक सामुदायिक भवन निर्माण कार्य।

As per C.G PWD BUILDING SOR /Elec.sor 2020

Sno	Particulars	Qty	Unit
1	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. 1.1.1 In all types of soils.column septic tank below gb .	14.96	CUM
2	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).	5.51	CUM
3	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. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).,footing,column,plinth	5.44	CUM
4	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: lintel beam,slab beam,chajja,column	3.35	CUM
5	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 in foundation and plinth all complete: Thermo-Mechanically treated bars FE 415	702.64	kg
6	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.	24.66	kg
7	Columns, Pillars, Piers and likes- rectangular or square in shape	21	sqm
8	Beams, lintels, cantilevers & walls	16.8	sqm
9	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ) chajja	2.52	sqm
10	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	26.57	sqm
11	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.	0.21	CUM
12	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)	3.96	CUM
13	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	15.06	CUM
14	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	27	sqm




15	Providing and making 12 mm thick cement plaster of mix: In Cement mortar 1:6 (1 cement : 6 fine sand)	147	sqm
16	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)	159.6	sqm
17	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with: On 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)	79.80	sqm
18	Supply and fixing of precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required	33.66	sqm
19	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete. Size 600x600mm	30.24	sqm
20	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed	50	kg
21	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).	50	kg
22	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1 On new work (two or more coats)	336.6	sqm
23	Painting on new work (two or more coats) to give an even shade with: Satin synthetic enamel paint		
24	door	4.20	sqm
		7.20	sqm
25	Structural steel work in single section including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.	60.00	kg

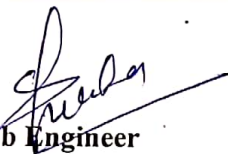


26	Providing and fixing plain sheets ceiling with nails to the frame work for panels excluding frame work. 4 mm thick A.C. plain sheets	30.24	sqm
27	Providing and fixing at all height false ceiling consisting of frame work "W" / "U" / "L" sections made of G.I. sheet with zinc coating of grade 120 consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.55mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed including providing and fixing 12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part-I all complete as per drawing and specification and direction of the Engineer in Charge but excluding the	30.24	sqm
28	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 6 mm thickness	5.40	sqm
29	Extra for providing and fixing tinted glass panes in aluminium door, window, ventilator shutters and partitions instead of float glass. 6 mm thickness	5.40	sqm
30	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 upto 200x300mm	12.60	sqm
31	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.	190.00	kg
32	Providing and fixing "NETLON insect screens" with 25mm wide Hook and loop tape all around to wooden/ aluminium/ steel windows, ventilators and the like complete.	2.16	sqm

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33	Providing and fixing Gypsum board wall paneling consisting of frame work "W" / "U" / "L" sections made of G.I. sheet with zinc coating of grade 120 consisting of G.I. section, 'W' profile (0.55mm thick) having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.5 mm placed at 610mm center to center in perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm fixed on the floor and the ceiling with the nylon sleeves with fully threaded self-tapping drive all screws, and 12.5mm Gypsum board conforming to IS: 2095 - 1996: Part - I, fixed to 'W' profile with 25 mm countersunk ribbed head screws at 200mm center to center, joints of the boards are finished with specially formulated jointing compound and 48mm wide fibre tape to provide seamless finish all complete as per the drawing & directions of Engineer-in-charge	73.50	sqm
34	Providing and applying plaster of paris putty over plastered wall surface including scaffolding complete More than 2 mm thickness to make surface even and smooth in true plumb and line and level.	174.00	sqm
35	Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.	333.6	sqm


Asstt. Engineer
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Sub Engineer
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