

**MUNICIPAL CORPORATION OF BHILAI
NIT**

वार्ड क्र. 40 मंगल बाजार में स्थित सुलभ शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01.01.2015 & Electric SOR 01.06.2020)


| S.N. | PARTICULERS OF ITEMS | Quantity | UOM |
|------|--|----------|------|
| 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. | 1.20 | Cum |
| 2 | Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : | | |
| | 100 mm diameter | 20.00 | Mtr. |
| | 150 mm diameter | 15.00 | Mtr. |
| 3 | Providing and constructing brick masonry road gully chamber 50x45x60cm 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 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design. | 3 | No. |
| 4 | 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 | 48.00 | Sqm |
| 5 | 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 | 5.00 | m |
| 6 | Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer. | | |
| | In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works. | 126.00 | Kg |
| 7 | 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. | 252.000 | Kg |
| 8 | 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 | 8.00 | M |
| | 150 mm dia | 8.00 | M |
| 9 | Neat Cement punning. | 5.00 | Sqm |
| 10 | Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand) | 5.50 | 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) | 28.00 | Sqm |
| 12 | Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand) | 28.50 | Sqm |
| 13 | 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). | 0.81 | Cum |

| S.N. | PARTICULARS OF ITEMS | Quantity | Unit |
|------|---|----------|------|
| 14 | Providing and fixing 30mm thick fibreglass reinforced plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856 : 2000, complete. | 3.60 | Cum |
| 15 | 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) | 0.80 | Cum |
| 16 | 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) + Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth: | 0.40 | Cum |
| 17 | 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). + Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement. | 0.54 | Cum |
| 18 | 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). | 0.60 | Cum |
| 19 | 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. | 0.66 | Cum |
| 20 | 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 | 79.80 | Kg |
| 21 | 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). | 1.20 | Cum |
| 22 | Providing and laying vitrified floor tiles with soluble salt printing, of size 600x600mm with water absorption less than 0.5% and conforming to IS : 15622 of approved make, 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. | 6.00 | Sqm |
| 23 | 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 | 3.60 | Sqm |
| 24 | Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm | 20.79 | Sqm |
| 25 | Distempering with acrylic washable distemper to give an even shade. On oldwork (two or more coats) | 194.80 | Sqm |
| 26 | Painting exterior surface with PREMIUM 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 old work (One or more coats applied @ 0.83 ltr/ 10 sqm) | 112.00 | Sqm |
| 27 | Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White | 8 | Each |
| 28 | Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint | 50.40 | Sqm |
| 29 | Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia | 12 | Each |

| PARTICULARS OF ITEMS | | Quantity | UOM |
|----------------------|--|----------|------|
| 30 | Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required : White Orissa pattern W.C. pan of size 580x440 mm | 6 | Each |
| 31 | 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 | 2 | Each |
| 32 | Providing and fixing vitreous china wash basin with C.I. brackets, 32mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : White Size 550x450 mm | 2 | Each |
| 33 | Towel rail (600mm long x 20mm dia) | 2 | Each |
| 34 | Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment | 3.00 | Sqm |
| 35 | 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, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm Pigment Coloured (rubber mould) precast interlock concrete blocks | 32.00 | Sqm |
| 36 | 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. | 15.00 | Mtr. |
| | 25 mm nominal outer dia .Pipes. | 15.00 | Mtr. |
| 37 | Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. | 1000.00 | Ltr |
| 38 | Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete: | | |
| | 25 mm dia. nominal bore | 15.00 | Mtr. |
| | 15 mm dia. nominal bore | 15.00 | Mtr. |
| 39 | Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete: 25 mm dia. nominal bore | 10.00 | Mt |
| 40 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): 25 mm nominal bore | 2 | No |
| 41 | Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (350 grams) | 12 | No |
| 42 | Add for Electrification Work | 10423.00 | LS |


Executive Engineer
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Assistant Engineer
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Sub Engineer
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