

SCHEDULE OF QUANTITY (CIVIL)

Name of work:- Construction of Office Building & Residential Complex for Subsidiary Intelligence Bureau (SIB) at Mahasamund (C.G.).

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
1	EARTH WORK						2
1.1	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.						2.6
1.1.1	All kinds of soil	cum	1080.00	177.50	174.30	188244.00	2.6.1
1.2	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.						2.7
1.2.1	Ordinary rock	cum	175.00	498.90	489.90	85733.00	2.7.1
1.3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.						2.8
1.3.1	All kinds of soil.	cum	335.00	260.30	255.60	85626.00	2.8.1
1.4	Excavating trenches by mechanical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m:						2.10
1.4.1	All kinds of soil						2.10.1
1.4.1.1	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	80.00	352.15	345.80	27664.00	2.10.1.2
1.5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	cum	1260.00	196.00	192.45	242487.00	2.25
1.6	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	50.00	2123.75	2085.50	104275.00	2.27
Sub-Total - 1 :						734029.00	
2	CEMENT CONCRETE (CAST IN SITU)						4
2.1	Providing and laying in position excluding cement concrete of level: specified grade the cost of centering and shuttering - All work up to plinth						4.1
2.1.1	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	255.00	6518.60	6401.25	1632319.00	4.1.10
2.1.2	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : Brick aggregate 40 mm and 50 mm nominal size).	cum	30.00	5623.75	5522.50	165675.00	4.1.10/ MDSR

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2.3	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:						4.2
2.3.1	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	5.00	9895.20	9717.10	48586.00	4.2.3
2.4	Centering and shuttering including strutting, propping etc. and removal of form work for:						4.3
2.4.1	Foundations, footings, bases for columns	sqm	225.00	392.15	385.10	86648.00	4.3.1
2.5	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5 mm nominal size derived from natural sources)	sqm	70.00	410.85	403.45	28242.00	4.10
2.6	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	sqm	68.00	749.30	735.80	50034.00	4.17
Sub-Total - 2 :						2011504.00	
3	REINFORCED CEMENT CONCRETE						5
3.1	Centering and shuttering including strutting, propping etc. and removal of form for						5.9
3.1.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	258.00	392.15	385.10	99356.00	5.9.1
3.1.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	sqm	578.00	842.50	827.35	478208.00	5.9.2
3.1.3	Suspended floors, roofs, landings, balconies and access platform	sqm	1116.00	927.25	910.55	1016174.00	5.9.3
3.1.4	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	1378.00	736.40	723.15	996501.00	5.9.5
3.1.5	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	1070.00	961.30	944.00	1010080.00	5.9.6
3.1.6	Stairs, (excluding landings) except spiral-staircases	sqm	26.00	764.95	751.20	19531.00	5.9.7
3.1.7	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	sqm	84.00	392.15	385.10	32348.00	5.9.15
3.1.8	Edges of slabs and breaks in floors and walls						5.9.16
3.1.8.1	Under 20 cm wide	metre	74.00	208.55	204.80	15155.00	5.9.16.1
3.1.9	Weather shed, Chajjas, corbels etc., including edges	sqm	44.00	951.10	934.00	41096.00	5.9.19
3.2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						5.22
3.2.1	Thermo-Mechanically Treated bars {Low Alloy Steel (Bar Set-I)} of grade Fe-500D or more. Conforming to IS-1786 and additional requirement.	kg	29400.00	107.85	105.90	3113460.00	5.22.6
3.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.						5.22A
3.3.1	Thermo-Mechanically Treated bars {Low Alloy Steel (Bar Set-I)} of grade Fe-500D or more. Conforming to IS-1786 and additional requirement.	kg	36500.00	107.85	105.90	3865350.00	5.22A.6

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3.4	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	104.00	78.40	77.00	8008.00	5.30
3.5	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.						5.33
3.5.1	All works upto plinth level						5.33.1
3.5.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	269.00	9504.75	9333.65	2510752.00	5.33.1.1
3.5.2	All works above plinth level upto floor V level						5.33.2
3.5.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	340.00	9860.40	9682.90	3292186.00	5.33.2.1
	Sub-Total - 3 :					16498205.00	
4	MASONRY WORK						6
4.1	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	metre	75.00	60.85	59.75	4481.00	6.44
	Sub-Total - 4 :					4481.00	
5	CLADDING WORK						8
5.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.						8.2
5.1.1	Granite stone slab of colour black, Cherry/Ruby red						8.2.2
5.1.1.1	Area of slab upto 0.50 sqnn	sqm	80.00	5413.50	5316.05	425284.00	8.2.2.1
5.1.1.2	Area of slab over 0.50 sqm	sqm	65.00	5136.30	5043.85	327850.00	8.2.2.2
5.2	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	10.00	978.70	961.10	9611.00	8.5

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5.3	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps 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 pigment of matching shade complete.	sqm	240.00	1267.95	1245.15	298836.00	8.31
	Sub-Total - 5 :					1061581.00	
6	WOOD AND P. V. C. WORK						9
6.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).						9.1
6.1.1	Second class teak wood	cum	2.50	142949.70	140376.60	350942.00	9.1.1
6.2	Extra for providing frosted glass panes 4 mm thick (weight not less than 10 kg per sqm) instead of ordinary float glass panes 4 mm thick (weight not less than 10 kg per sqm) in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	sqm	8.00	176.40	173.20	1386.00	9.12
6.3	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:						9.21
6.3.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	80.00	2392.65	2349.60	187968.00	9.21.1
6.4	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :						9.27
6.4.1	30 mm thick shutters						9.27.2
6.4.1.1	With ISI marked stainless steel butt hinges of required size						9.27.2.2
6.4.1.1.1	Kiln seasoned and chemically treated hollock wood	sqm	18.00	3447.80	3385.75	60944.00	9.27.2.2.2
6.5	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.						9.48
6.5.1	Fixed to steel windows by welding	kg	1410.00	219.10	215.15	303362.00	9.48.1
6.6	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	10.00	1124.85	1104.60	11046.00	9.83
6.7	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :						9.96
6.7.1	250x16 mm	Each	15.00	260.60	255.90	3839.00	9.96.2
6.8	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :						9.97

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6.8.1	250x10 mm	Each	15.00	115.15	113.10	1697.00	9.97.2
6.9	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :						9.100
6.9.1	125 mm	Each	25.00	66.25	65.05	1626.00	9.100.1
6.10.	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with awall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge. "	metre	56.00	492.70	483.85	27096.00	9.119
6.11	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.						9.120
6.11.1	30 mm thick plain PVC door shutters	sqm	20.00	3182.95	3125.65	62513.00	9.120.1
6.12	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.						9.127
6.12.1	1.5 mm thick	sqm	160.00	1045.95	1027.10	164336.00	9.127.1

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6.13	Providing and fixing factory made uPVC glazed/wire mesh windows/doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and inline sash adaptor ((where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge.						9.147
	Wire mesh/Glazing of plain/toughened/laminated/double glass unit with/without high performance coatings as per design requirements and conforming to IS:3548 & IS:16231 shall be paid separately. Note - Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for : (i) Sites with basic wind speed > 45 m/sec as per IS 875 - Part 3 (ii) Sites with structure height more than 20m for all wind speeds.						
6.13.1	Three track three panels sliding window made with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.						9.147A5
6.13.1.1	Using R2 series with frame (70mm & above) x (40mm & above) & Sash (25mm & above) x (50mm & above) with zinc alloy (zamak) powder coated touch locks with hook. (Height upto 1.2 meter)	sqm	60.00	8748.35	8590.90	515454.00	9.147.45.1
6.13.2	Fixed window / ventilator without mullion/transom.						9.147.C1
6.13.1	Using R1 series with frame (33mm & above) x (35mm & above). (Height upto 0.90 meter)	sqm	35.00	8247.25	8098.80	283458.00	9.147.C1.1
6.14	Providing and fixing cuboard shutter with 19 mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2 mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer-in-charge. (Payment of providing and fixing auto closing hinges shall be paid separately)	sqm	5.00	2829.25	2778.30	13892.00	9.168
6.15	Providing and fixing 19 mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes, shelves, racks, almirah, cupboard and drawer etc. including necessary nails, screws etc. complete as per direction of Engineer-in-charge.	sqm	15.00	2593.15	2546.45	38197.00	9.169

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6.16	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge.						9.170
6.16.1	200 mm	each	40.00	186.65	183.30	7332.00	9.170.1
6.17	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge.	each	25.00	272.00	267.10	6678.00	9.171
	Sub-Total - 6 :					2041766.00	
7	STEEL WORK						10
7.1	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	1000.00	133.70	131.30	131300.00	10.2
7.2	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.						10.5
7.2.1	Using M.S. angels 40x40x6 mm for diagonal braces	sqm	3.00	5804.35	5699.85	17100.00	10.5.1
7.3	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.						10.13
7.3.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	kg	26.00	141.70	139.15	3618.00	10.13.1
7.4	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:						10.14
7.4.1	Profile C						10.14.2
7.4.1.1	Fixing with adjustable lugs with split end tail to each jamb	metre	796.00	611.75	600.75	478197.00	10.14.2.1
7.5.1	Profile E						10.14.3
7.5.1.1	Fixing with adjustable lugs with split end tail to each jamb	metre	160.00	640.20	628.70	100592.00	10.14.3.1
7.6	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.						10.25
7.6.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	kg	1000.00	172.60	169.50	169500.00	10.25.2

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7.7	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, bufig, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	832.00	772.40	758.50	631072.00	10.28
Sub-Total - 7 :						1531379.00	
8	FLOORING						11
8.1	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	210.00	978.45	960.85	201779.00	11.4
8.2	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :						11.26
8.2.1	25 mm thick	sqm	14.00	1948.25	1913.20	26785.00	11.26.1
8.3	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm	2.50	2354.70	2312.30	5781.00	11.27
8.4	Providing and laying Ceramic glazed floor tiles of size 300x300 mm(thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @3.3kg/sqm including pointing the joints with white cement and matching pigments etc., complete.	sqm	100.00	1315.30	1291.60	129160.00	11.38
8.5	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.						11.41A
8.5.1	Double charge vitrified tile polished finish of size						11.41A.1
8.5.1.1	Size of Tile 600x600 mm	sqm	300.00	1453.65	1427.50	428250.00	11.41A.1.1
8.6.1	Glazed Vitrified tiles Matt/Antiskid finish of size						11.41A.3
8.6.1.1	Size of Tile 600 x 600 mm	sqm	20.00	1464.85	1438.50	28770.00	11.41A.3.1

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8.7	Providing and laying Double charge vitrified tile polished finish in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.						11.46 MDSR
8.7.1	Size of Tile 600 x 600 mm	sqm	35.00	1523.20	1495.80	52353.00	11.46.2 MDSR
8.8	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :						11.55
8.8.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm	20.00	3186.70	3129.35	62587.00	11.55.1
8.9	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.						11.56
8.9.1	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	sqm	225.00	4481.30	4400.65	990146.00	11.56.1
	Sub-Total - 8 :					1925611.00	
9	ROOFING						12
9.1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :						12.21
9.1.1	In 75x75 mm deep chase	metre	70.00	305.15	299.65	20976.00	12.21.1
9.2	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	each	10.00	298.25	292.90	2929.00	12.22
9.3	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.						12.41
9.3.1	110 mm diameter	metre	120.00	377.40	370.60	44472.00	12.41.2
9.4	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.						12.42
9.4.1	Bend 87.5°						12.42.5

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
9.4.1.1	110 mm bend	each	10.00	150.35	147.65	1477.00	12.42.5.2
9.4.2	Shoe (Plain)						12.42.6
9.4.2.1	110 mm Shoe	each	10.00	131.85	129.50	1295.00	12.42.6.2
9.5	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.						12.43
9.5.1	110 mm	each	60.00	371.30	364.60	21876.00	12.43.2
9.6	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	each	10.00	54.70	53.70	537.00	12.44
9.7	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound,						12.45
	jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :						
9.7.1	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	12.00	1529.10	1501.60	18019.00	12.45.3

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
9.8	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.						12.52
9.8.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	sqm	100.00	1902.95	1868.70	186870.00	12.52.1
	Sub-Total - 9 :					298451.00	
10	FINISHING						13
10.1	12 mm cement plaster of mix:						13.1
10.1.1	1:6(1 cement: 6 fine sand)	sqm	1330.00	333.35	327.35	435376.00	13.1.2
10.2	15 mm cement plaster on the rough side of single or half brick wall of mix:						13.2
10.2.1	1:6 (1 cement: 6 fine sand)	sqm	1570.00	383.00	376.10	590477.00	13.2.2
10.3	6 mm cement plaster of mix:						13.16
10.3.1	1:3 (1 cement :3 fine sand)	sqm	1060.00	300.45	295.05	312753.00	13.16.1
10.4	Finishing walls with Acrylic Smooth exterior paint of required shade :						13.46
10.4.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 kg/10 sqm)	sqm	750.00	160.60	157.70	118275.00	13.46.1
10.5	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :						13.61
10.5.1	Two or more coats on new work	sqm	200.00	155.90	153.10	30620.00	13.61.1
10.6	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	2080.00	156.05	153.25	318760.00	13.80
10.7	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.						13.82

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
10.7.1	Two coats	sqm	2080.00	137.45	135.00	280800.00	13.82.2
10.8	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.						13.85
10.8.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	3210.00	73.95	72.60	233046.00	13.85.3
	Sub-Total - 10 :					2320107.00	
11	ROAD WORK						16
11.1	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	metre	180.00	375.80	369.05	66429.00	16.53
11.2	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	sqm	100.00	972.00	954.50	95450.00	16.68
11.3	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer- in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	10.00	10117.60	9935.50	99355.00	16.69
11.4	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush, making provision for contraction/ expansion joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants/ pre-moulded joint filler etc. complete as per specifications and directions of Engineer-in charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	cum	165.00	9823.80	9646.95	1591747.00	16.75/ MDSR
	Sub-Total - 11 :					1852981.00	
12	SANITARY INSTALLATIONS						17

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
12.1	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :						17.4
12.1.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	each	2.00	6258.75	6146.10	12292.00	17.4.1
12.2	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:						17.7
12.2.1	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	each	15.00	2226.35	2186.30	32795.00	17.7.2
12.3	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :						17.10
12.3.1	Kitchen sink without drain board						17.10.2
12.3.1.1	470x420 mm bowl depth 178 mm.	each	4.00	3407.20	3345.85	13383.00	17.10.2.3
12.4	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.						17.28
12.4.1	Flexible pipe						17.28.2
12.4.1.1	32 mm dia	each	19.00	119.55	117.40	2231.00	17.28.2.1
12.5	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	15.00	1607.95	1579.00	23685.00	17.31
12.6	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	each	15.00	1083.50	1064.00	15960.00	17.33
12.7	Providing and fixing toilet paper holder :						17.34
12.7.1	C.P. brass	each	15.00	803.70	789.25	11839.00	17.34.1
12.8	Providing and fixing soil, waste and vent pipes :						17.35
12.8.1	100 mm dia						17.35.1
12.8.1.1	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	metre	53.00	1169.30	1148.25	60857.00	17.35.1.3
12.8.2	75 mm diameter :						17.35.2
12.8.2.1	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	metre	53.00	964.25	946.90	50186.00	17.35.2.3
12.9	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :						17.37
12.9.1	For 100 mm dia pipe	each	35.00	362.85	356.30	12471.00	17.37.1
12.9.2	For 75 mm dia pipe	each	35.00	360.00	353.50	12373.00	17.37.2
12.10	Providing and fixing plain bend of required degree.						17.39
12.10.1	100 mm dia						17.39.1

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
12.10.1.1	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	20.00	368.00	361.40	7228.00	17.39.1.3
12.10.2	75 mm dia						17.39.2
12.10.2.1	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	20.00	252.50	247.95	4959.00	17.39.2.3
12.11	Providing and fixing single equal plain invert branch of required degree :						17.50
12.11.1	100x100x100 mm						17.50.1
12.11.1.1	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	15.00	645.45	633.85	9508.00	17.50.1.3
12.11.2	75x75x75 mm						17.50.2
12.11.2.1	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	15.00	401.90	394.65	5920.00	17.50.2.3
12.12	Providing and fixing terminal guard :						17.56
12.12.1.1	100 mm						17.56.1
12.12.1.1.1	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	4.00	427.80	420.10	1680.00	17.56.1.3
12.2.2	75 mm						17.56.2
12.12.2.1	Sand cast iron S&S as per IS - 3989	each	4.00	404.75	397.45	1590.00	17.56.2.2
12.13	Providing and fixing shielded coupling for Hubless centrifugally cast iron pipe						17.57A
12.13.1	100 mm dia						17.57A.1
12.13.1.1	SS 304 grade coupling with EPDM rubber gasket	each	30.00	432.05	424.25	12728.00	17.57A.1.1
12.13.2	75 mm dia						17.57A.2
12.13.2.1	SS 304 grade coupling with EPDM rubber gasket	each	30.00	389.05	382.05	11462.00	17.57A.2.1
12.14	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :						17.60
12.14.1	100 mm inlet and 75 mm outlet						17.60.2
12.14.1.1	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	20.00	591.40	580.75	11615.00	17.60.2.3
12.15	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :						17.65
12.15.1	100 mm diameter pipe	metre	55.00	82.80	81.30	4472.00	17.65.1
12.15.2	75 mm diameter pipe	metre	55.00	62.95	61.80	3399.00	17.65.2
12.16	Providing and fixing PTMT Bottle Trap for Wash basin and sink.						17.70
12.16.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms.	each	20.00	367.10	360.50	7210.00	17.70.1
12.17	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	each	20.00	168.35	165.30	3306.00	17.71
12.18	Providing and fixing white vitreous China extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous China cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	each	11.00	14999.15	14729.15	162021.00	17.78

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
	Sub-Total - 12 :					495170.00	
13	WATER SUPPLY						18
13.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall						18.7
13.1.1	25 mm nominal dia Pipes	metre	60.00	401.55	394.30	23658.00	18.7.3
13.1.2	32 mm nominal dia Pipes	metre	20.00	518.75	509.40	10188.00	18.7.4
13.1.3	50 mm nominal dia Pipes	metre	50.00	934.15	917.35	45868.00	18.7.6
13.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and 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. Concealed work, including cutting chases and making good the walls etc.						18.8
13.2.1	15 mm nominal dia Pipes	metre	20.00	497.80	488.85	9777.00	18.8.1
13.2.2	20 mm nominal dia Pipes	metre	40.00	537.60	527.90	21116.00	18.8.2
13.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work						18.9
13.3.1	40 mm nominal dia Pipes	metre	20.00	563.05	552.90	11058.00	18.9.5
13.4	Providing and fixing uplasticised PVC connection pipe with brass unions :						18.21
13.4.1	45 cm length						18.21.2
13.4.1.1	15 mm nominal bore	each	68.00	97.75	96.00	6528.00	18.21.2.1
13.5	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 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.	per litre	20000.00	11.00	10.80	216000.00	18.48
13.6	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :						18.49
13.6.1	15 mm nominal bore	each	5.00	506.80	497.70	2489.00	18.49.1
13.7	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.						18.52
13.7.1	15 mm nominal bore	each	5.00	670.45	658.40	3292.00	18.52.1
13.8	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931						18.53
13.8.1	15 mm nominal bore	each	68.00	574.30	563.95	38349.00	18.53.1
	Sub-Total - 13 :					388323.00	
14	DRAINAGE						19
14.1	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:						19.4
14.1.1	100x100 mm size P type						19.4.1
14.1.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6.00	2707.65	2658.90	15953.00	19.4.1.1

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
14.2	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :						19.6
14.2.1	250 mm dia. R.C.C. pipe	metre	50.00	899.80	883.60	44180.00	19.6.3
14.3	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :						19.7
14.3.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :						19.7.1
14.3.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	10.00	12770.55	12540.70	125407.00	19.7.1.1
14.4	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.						19.32
14.4.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1.00	26861.90	26378.40	26378.00	19.32.1
Sub-Total - 14 :						211918.00	
15	ALUMINIUM WORK						21
15.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :						21.1
15.1.1	For fixed portion						21.1.1
15.1.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	50.00	530.90	521.35	26068.00	21.1.1.2
15.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)						21.1.2
15.1.2.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	50.00	634.45	623.05	31153.00	21.1.2.2
15.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):						21.3
15.2.1	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	sqm	94.00	1505.25	1478.15	138946.00	21.3.2

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
15.3	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.						21.8
15.3.1	Upto 5 mm depth and 5 mm width	metre	260.00	96.75	95.00	24700.00	21.8.1
	Sub-Total - 15 :					220867.00	
16	WATER PROOFING						22
16.1	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : (i) 1st layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) including applying of twice (at base and top of mortar) cement slurry @ 2.2kg/m2 (each time) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. (iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cu dm/sqm thoroughly embedded in the 2nd layer.						22.1
16.1.1	Using rough kota stone.	sqm	48.00	1515.60	1488.30	71438.00	22.1.1
16.2	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :						22.2
16.2.1	Using rough Kota stone	sqm	56.00	2024.70	1988.25	111342.00	22.2.1
16.3	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	sqm	100.00	617.05	605.95	60595.00	22.5

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
16.4	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.						22.7
	(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and as directed and specified by the Engineer-in-Charge":						
16.4.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	sqm	520.00	1684.60	1654.30	860236.00	22.7.1
16.5	Providing & Applying high quality acrylic modified resin based texture of Dholpur/Red sand stone Pattern with anti algae and UV resistance properties to be applied as intermediate finish in desired pattern @ 43.04 kgs/10 sqm to form film of 1- 1.5 mm thickness after scrapping and properly cleaning the surface to remove loose particles from the plaster surface, followed by top coating with Premium Acrylic Smooth exterior paint with Silicone additives of required shade by two or more coats @ 1.43 litres/10 sqm, complete as the direction of Engineer -in-Charge.	sqm	810.00	597.00	586.25	474863.00	22.24A
	Sub-Total - 16 :					1578474.00	
17	RAIN WATER HARVESTING & TUBEWELLS						23
17.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.						23.1
17.1.1	All types of soil						23.1.1
17.1.1.1	300 mm dia	metre	90.00	707.75	695.00	62550.00	23.1.1.1

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
17.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.						23.2
17.2.1	All types of soil						23.2.1
17.2.1.1	300 mm dia	metre	60.00	825.70	810.85	48651.00	23.2.1.1
17.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.						23.3
17.3.1	150 mm nominal size dia	metre	120.00	793.25	778.95	93474.00	23.3.2
17.4	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	each	175.00	1399.95	1374.75	240581.00	23.9
17.5	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of useable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, including disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	hour	10.00	1085.05	1065.50	10655.00	23.12
17.6	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:						23.13
17.6.1	150 mm dia	each	1.00	246.45	242.00	242.00	23.13.2
17.7	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.						23.14
17.7.1	150 mm clamp	each	1.00	2019.05	1982.70	1983.00	23.14.2
17.8	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).						23.15
17.8.1	150 mm dia	each	1.00	322.00	316.20	316.00	23.15.2
	Sub-Total - 17 :					458452.00	
18	NEW TECHNOLOGIES						26

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
18.1	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid board one side white color and other side of board laminated with PVC foil of minimum 14 micron thickness of approved design pasted with hot melt adhesive for cup boards, work stations and bathroom/kitchen cabinet etc. of required sizes comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel piano hinges/soft close clip on concealed hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel piano hinges/soft close clip on concealed hinges and necessary S.S screws shall be paid separately)	sqm	20.00	2992.90	2939.05	58781.00	26.89
	Sub-Total - 18 :					58781.00	
19	NON SCHEDULE ITEMS						N.S.
19.1	Providing and fixing oval shape wash basin (Under counter) of Jaquar article No CNS-WH T-705 or equivalent of size 605x430X200 mm with C.P. brass swan neck pillar cock of Jaquar article No CQT-CH R-23347 or equivalent including waste coupling of Jaquar article No ALD-CH R-705 or equivalent etc. all complete as per direction of Engineer-in-Charge.	each	3.00	-	5893.20	17680.00	N.S.-1
19.2	Providing and fixing C.P. brass swan neck pillar cock of Jaquar article No CQT-CH R-23347 or equivalent for Kitchen sink including waste coupling of Jaquar article No ALD-CH R-705 or equivalent etc. all complete as per direction of Engineer-in-Charge.	each	4.00	-	2901.70	11607.00	N.S.-2
19.3	Providing & fixing C.P. Brass two way bib cock with flange Jaguar Article No ALI-CHR-85041 or equivalent and Hand Shower (Health Faucet) with 8mm Dia, 1 Meter Long Flexible Tube & Wall Hook Jaguar Article No ALI-CHR-573 or equivalent etc. Complete as per direction of Engineer-in-charge.	each	12.00	-	3652.50	43830.00	N.S.-3
19.4	Providing and fixing machine cut and machine polished cuddappah stone slab for horizontal shelf, cooking platform, washing platform, window sills and soap racks etc. fixed with cement mortar 1:3 (1 cement : 3 coarse sand) including cost of making grooves/recesses in the walls & making good the same after fixing the slab and edge moulding to exposed edges all complete.						N.S.-4
19.4.1	40 mm thick machine polished on exposed side.	sqm	22.00	-	867.00	19074.00	
19.5	Supply & filling with moorum (excluding rock) in trenches, plinth side of foundation etc. in layers not exceeding 20 cm in depth consolidating each deposited layer by ramming & watering for all lead etc. all complete as specified and as directed by the Engineer-in-Charge.	cum	580.00	-	633.80	367604.00	N.S.-5
19.6	Brick work with non modular flyash bricks of class designation 7.5 in foundation and plinth in:						N.S.-6
19.6.1	Cement Mortar 1:6(1 cement :6 coarse sand).	cum	66.00	-	5890.75	388790.00	
19.7	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 7.5 average compressive strength in super structure above plinth level up to floor V level in :						N.S.-7

Item No	Description	Unit	Quantity	Rate	Rate i/c 0.973x1.03x0.98) = 0.982	Amount	DSR -23 No.
19.7.1	Cement Mortar 1:6(1 cement :6 coarse sand).	cum	390.00	-	7741.75	3019283.00	
19.8	Half brick masonry with non modular fly ash bricks of class designation 7.5, conforming to IS :12894, in super structure above plinth and upto floor V level.						N.S.-8
19.8.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	390.00	-	974.80	380172.00	
19.9	Providing and fixing stainless steel hanging floor door stopper, ISI marked of required colour and shade, with necessary screws etc. complete:						N.S.-9
19.9.1	Twin rubber stopper	each	36.00	-	120.40	4334.00	
19.10.	Providing and fixing CP brass shower rose of Jaquar Article No OHS-CH R-1989 or equivalent and shower arm casted 160MM long light bodyround shape for wall mounted shower with flanged of Jaquar Article No SHA-CH R-477 or equivalent etc. all complete as per direction of Engineer-in-Charge.	each	4.00	-	2713.55	10854.00	N.S.-10
19.11	Providing and fixing CP Brass wall mixer of Jaquar Article No CQT-CH R-23273 UPR or equivalent etc all Complete as per direction of Engineer-in-Charge.	each	4.00	-	6000.85	24003.00	N.S.-11
19.12	Providing and fixing stainless steel sliding door bolts, ISI marked of required colour or shade, with nuts and screws etc. complete :						N.S.- 12
19.12.1	200x16 mm	each	70.00	-	238.50	16695.00	
19.13	Providing and fixing stainless steel tower bolts, ISI marked of required colour or shade, with necessary screws etc. complete :						N.S.- 13
19.13.1	200x10 mm	each	36.00	-	152.80	5501.00	
19.14	Providing and fixing stainless steel handles, ISI marked, of required colour or shade, with necessary screws etc. complete :						N.S.- 14
19.14.1	125 mm	each	72.00	-	113.95	8204.00	
19.15	Providing and fixing fly proof stainless steel grade 304 wire gauge, to aluminium windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.	sqm	45.00	-	1037.80	46701.00	N.S.- 15
19.16	Providing and fixing SS grating of approved quality and colour.						N.S.- 16
19.16.1	Cirtcular type 125 mm nominal dia with 25 mm waste hole.	each	28.00	-	69.25	1939.00	
19.17	Add for rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.	Sqm	820.00	-	4.90	4018.00	N.S.- 17
19.18	Credit for taking away Excavated Rock/Boulder from the site including lift & lead.	cum	175.00	-	-307.00	-53725.00	N.S.- 18
	Sub-Total - 19 :					4316564.00	
	Grand-Total :					38008644.00	