

SCHEDULE OF ITEM

**Construction of Compound wall, Cement Concrete road, Trolley Shed 2 Nos., Covered Shed 2 Nos.,
New Office Building, Public toilet, Canteen, Check post, Drilling of Tube well with Pump and
Water line, Piyao 2 Nos. and Main gate 2 Nos. at Sub Mandi Yard Betma of Mandi Samiti
Gautampura Distt. Indore.**

S.N.	SOR Item No.	Description of Item	Quantity	Unit
1	1.1.2	Transportation by mechanical means Excavated material from site	1025.52	Cum.
2	2.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil.	20037.64	Sqm.
3	2.2	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the	18750.00	Sqm.
4	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in over areas foundation trenches or drains (not exceeding 1.5 m in width or 10 including dressing of sides and ramming of bottoms,	3403.21	Cum.
5	2.24.1	Filling available excavated earth (excluding hard rock/Ordinary 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 m and lift upto 1.5 m.	1917.39	Cum.
6	2.27.2	supplying and filling in plinth with soil (other than BC soil) having MDD not less than 1.85 t/m ³ under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding	767.34	Cum.
7	2.27.2	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete. With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to	1081.57	Cum.
8	2.26	Supplying and filling in plinth with crusher stone dust / coarse sand under floors including, watering, ramming and compacting in layers not exceeding 20cm in depth and dressing complete Note: -	410.51	Cum.
9	4.1.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :With 20mm metal nominal size graded stone aggregate. M-25	167.89	Cum.
10	4.1.1.4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :4.1.1 With 20mm nominal size graded stone aggregate. Nominal Mix -1 Cement : 3 sand : 6 graded stone aggregate (M 10)	418.32	Cum.
11	4.1.1.2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :4.1.1 With 20mm metal With 20mm nominal size graded stone aggregate.	18.72	Cum.,
12	4.3.1	Centering and shuttering including strutting, propping etc. and removal of form for: Upto plinth Foundations, footings, bases of columns, etc. for	168.41	Sqm.
13	4.12	Extra for providing and mixing water proofing material as per IS standard in cement concrete work quantity as prescribed by the manufacturer	826.32	Bags

S.N.	SOR Item No.	Description of Item	Quantity	Unit
14	5.1.1	5.1 Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to	947.14	Cum.
15	5.2.1	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement: M-20 M-20 Grade Concrete	174.13	Cum.
16	5.3.1	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in	65.69	Cum.
17	5.9.2	Centering and shuttering including strutting, propping etc. and removal of form for :Walls (any thickness) in cluding attached pilasters butter esses, plinth beams and string courses etc.	909.42	Sqm.
18	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for : (a) 5.9.1 Foundations, footings, bases of columns, etc. for	1767.35	Sqm.
19	5.9.2.1	Centering and shuttering including strutting, propping etc. and removal of form for :5.9.2 Walls (any thickness) in cluding attached pilasters butter esses, plinth beams and string courses etc. Up to plinth level.	1516.88	Sqm.
20	5.9.3	Centering and shuttering in cludingstrutting, propping etc. and removal of formfor:Suspended floors, roofs, landings, balconies and access platform.	1445.93	Sqm.
21	5.9.5	Centering and shuttering in cludingstrutting, propping etc. and removal of formfor:5.9.5 Lintels, Beams and Centilevers Lintels, beams, girders,	222.38	Sqm.
22	5.9.6	Centering and shuttering in cludingstrutting, propping etc. and removal of formfor:Columns, P i l l a r s , Piers, Abutments,Posts and Struts.	937.33	Sqm.
23	5.9.7	Centering and shuttering including strutting, propping etc. and removal of form for 5.9.7 Staircase Stairs, (excluding landings) except spiral-	15.85	Sqm.
24	5.34	Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 (1 cement: 3 sand).	377.08	Sqm.
25	5.9.16	Centering and shuttering including strutting, propping etc. and removal of form for : Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor	147.10	Sqm.
26	5.9.19	Centering and shuttering in cluding strutting, propping etc. and removal of form for : Weather shade, Chajjas, corbels etc., including Edges.	13.31	Sqm.
27	5.16.6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detaling IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . Thermo-Mechanically Treated bars. (TMT/TMX) FE 500 or more	97112.27	Kg.
28	6.5.2	Brick work with well brunt open bhatta, bricks, crushing strength not less than 25kg /cm ² and water absorption not more than 20% in foundation and plinth i/c curing etc complete.Cement Mortar 1:6 (1	7.42	Cum.
29	6.5.1	Brick work with well brunt open bhatta, bricks, crushing strength not less than 25kg /cm ² and water absorption not more than 20% in foundation and plinth i/c curing etc complete. Cement mortar 1:4 (1 cement : 4 sand)	6.05	Cum.

S.N.	SOR Item No.	Description of Item	Quantity	Unit
30	6.6.2	Brick work with well brunt open bhatta, bricks, crushing strength not less than 25kg / cm ² and water absorption not more than 20% in superstructure above plinth level and up to floor two level i/c curing etc	233.40	Cum.
31	6.7.2.1	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in : 75 kg / cm ² Having 75 kg / cm ² compressive strength. CM 1:4 Cement mortar 1:4 (1 cement : 4	91.56	Cum.
32	6.15.2.1	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level. 75 kg/cm ² Having 75 kg/cm ² average compressive strength. CM	554.06	Sqm.
33	9.18.1	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hardwood and well matched teak 3 ply veneering with vertical grains or crossbands and face veneers on both faces of shutter 9.18.1 35 mm butt hinges 35 mm thick including ISI marked Stainless Steel	41.52	Sqm.
34	9.18.2	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutter. 9.18.2 30 mm butt hinges 30 mm thick including ISI marked Stainless	9.45	Sqm.
35	9.21	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door	41.52	Sqm.
36	9.35.1.1	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc.	103.00	Mtr.
37	9.187.3.1	Providing and Fixing, uPVC factory made, white colour casement/ sliding window and door made of extruded profiles. Profiles of frames and sash will be mitred cut and fusion welded at all comers including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing of hardware, EPDM gasket, 1.2 ± 0.2mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mmx100 mm long fasteners, all complete as per direction of Engineer-in-charge. (Glazing, hardware hinges and fitting etc. to be paid separately.) 9.187.3.1 Two Track Sliding Frame (67mm x 52mm)	105.00	Mtr.
38	9.187.3.2	Sliding window Sash (60 mm x 44 mm)	105.00	Mtr.
39	9.187.3.3	Sliding Interlock for Window (one vertical length in each shutter)(45.5 mm	105.00	Mtr.
40	9.19	Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.	120.00	Each
41	9.24	Extra for cutting rebate in flush door shutters (Total area of the shutter to	14.28	Sqm.
42	9.18.2	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutter.	4.00	Sqm.
43	9.19.1	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. 35 mm thick including ISI marked Stainless Steel butt	3.78	Sqm.

S.N.	SOR Item No.	Discription of Item	Quantity	Unit
44	9.43	M.S. Grills and windows 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	695.00	Kg.
45	9.65.1	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete : 300 x 16 mm	53.00	Each
46	9.66.1	Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete : 250 x 10 mm	21.00	Each
47	9.59	Providing and fixing ISI marked 85x42mmoxidised M.S. pull bolt lock conforming toIS: 7534 with necessary screws bolts, nutand washers etc.	17.00	Each
48	9.68.1	Providing and fixing ISI marked stainless steel door latches with screws etc. complete : 300 x 20 x 6 mm	34.00	Each
49	9.69.1	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete : 125 mm	66.00	Each
50	9.76	Providing and fixing Stainless steel hanging type floor door stopper with necessary screws, etc. complete.	60.00	Each
51	9.158	Providing and fixing factory made UPVC door frame made of UPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frame reinforced by galvanized M.S. tube of size 19 X 19mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and directionof Engineer-in-charge:	10.00	Mtr.
52	9.16	Providing and fixing UPVC panelled door shutter UPVC 30 mm thick factory made PVC or UPVC door shutter made of styles and rails of a UPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanisedM.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a UPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting	3.15	Sqm.
53	9.164	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size 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 butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-InCharge. (Note: stainless steel butt hinges	20.16	Sqm.

S.N.	SOR Item No.	Description of Item	Quantity	Unit
54	9.169	Providing and fixing factory made single extruded WPC(Wood Polymer Composite) solid door/window/ceosetory windows and other frames/chowkhat 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) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed S.S. screws having minimum density of 750 kg/m3 and screw withdrawal strength of 2200 N (Face) & 900 N (Edge), minimum compressive strength 58 N/mm2, modulus of elasticity 900 N/ mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof,	62.40	Mtr.
55	9.200	Providing and fixing 30mm thick factory made solid panel prelaminate PVC internal door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 40mm x 20mm for styles top, lock and bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture M.S. frame shall be covered with 5mm thick prelaminate heat moulded PVC 'C' channel of size 30mmx100mm forming stiles and 5mm thick prelaminate 125mm wide PVC sheets for top rail, lock rail and bottom rail on eigher side of panel and 15mm (5mmx3) thick, 20mm wide cross PVC sheet as gap insert for top and bottom rail. paneling of 10mm thick prelaminate PVC sheet to be fitted in the M.S. Frame welded/sealed to the stiles and rails with 30mm wideX5mm thick prelaminate PVC sheet beading on eigher side and additional 30mm wide PVC beading as gap insert below top and bottom rail joined together using solvent cement adhesive. An additional 5mm thick Prelaminate PVC strip of 20mm width is to be stuck on the interior side of the 'C' channel using PVC solvent cement adhesive etc. complete as	14.28	Sqm.
56	10.2	Structural steel work using M.S. flats, angles, channels I-section, H-section etc. riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat	1478.06	Kg.
57	10.6.1	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to I.S. 4454- part-1 and M.S. top cover of required thickness for rolling shutters. 80x1.25mm M.S. laths	4.41	Sqm.
58	10.14.1	Steel work in built up M.S. tubular section (round, square or rectangular hollow tubes etc.) trusses/frame work etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc.	154710.11	Kg.
59	10.18	Providing and fixing mild steel round holding down bolts with nuts and washers plates complete. Holding down bolts 25 mm dia.	2902.90	Kg.
60	10.22.2	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.10.22.2 - In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	1631.70	Kg.

S.N.	SOR Item No.	Discription of Item	Quantity	Unit
61	10.27.1	Providing and fixing glass panes/ steel sheet/ fibre sheet with putty and glazing clips in steel doors, windows, clerestory windows all	30.00	Sqm.
62	10.28.1	Add extra for providing and fixing froasted glass instead of float glass.With 4.0 mm thick glass panes.	7.20	Sqm.
63	10.36	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 3.00m 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 (2.5 mm thick) wire of high tensile strength of 165 kg/ sq mm with tape (0.52 mm thick) and weight 43.478 gm/ metre	735.50	Mtr.
64	10.12.2.1	Providing and fixing pressed steel door frames made of 1.6 mm thick steel profile conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including 2.5mm thick M.S. pressed butt hinges, with mortar guards, lock strike-plate and shock absorbers as specified filling the frame with Cement Concrete 1:3:6 at site before fixing (cost of concrete to be paid separately) fixing with adjustable lugs (200 mm long & 1.0 mm thick) and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in- charge: Profile C of 1.60mm thick single rebate of size	10.40	Mtr.
65	10.12.4.1	Providing and fixing pressed steel door frames conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges, 2.5mm thick with mortar guards, lock strike-plate and shock absorbers as specified filling the frame with Cement Concrete 1:3:6 at site before fixing (cost of concrete to be paid separately) and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:	115.60	Mtr.
66	10.25	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, 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 and 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	108.75	Kg.
67	10.5.1	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x5mm angle iron and 3mm M.S. gusset plates at the junctions and comers, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6mm for diagonal	2.10	Sqm.
68	10.19	Providing and fixing bolts including nuts and washers complete.	1724.80	Kg.
69	10.26.2	Providing and fixing fly proof wire gauze to windows, clerestory windows and doors with M.S. Flat 15x3mm and nuts and bolts complete. Stainless steel (grade 304) wire gauze of 0.5 mm dia. wire and I.4 mm aperture on	27.00	Sqm.

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70	10.17	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3mm dia. round headed screws, one lock at the comers. Clamp shall be made of	12.00	Each
71	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia steel pulleys complete withbolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer. Rate includes	8.40	Sqm.
72	11.22.1	Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc. complete at all levels. Samples approved by Engineer-in- Charge. Raj	26.03	Sqm.
73	11.29.1.1	Granite work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 sand) including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade: (To be secured to the backing by means of cramps, which shall be paid for separately). Area of	105.13	Sqm.
74	11.33.1	Pre polished Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab. Flamed Finish Granite	21.00	Sqm.
75	11.34	Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12mm average thick cement mortar 1:3 (1 cement:3sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.e slabs, including rubbing and polishing complete.	31.65	Sqm.
76	11.38.1	Kota stone slabs 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.11.38.1 10-12 mm thick	31.20	Sqm.
77	11.76.1	Providing and laying vitrified floor tiles (without soluble salt) or printed (with soluble salt) Nano polished (Glossy finish) in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality in flooring laid on 20mm thick cement mortar 1:4 (1cement:4sand) including grouting the joints with white cement and matching pigments etc. complete Plain ivory	105.15	Sqm.
78	11.77.1	Providing and laying vitrified floor tiles (without soluble salt) or printed (with soluble salt) Nano polished (Glossy finish) in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality in skirting dado and wall lining laid on 12mm thick cement mortar 1:4(1cement:4sand) including grouting the joints with white cement and matching pigments etc.	5.95	Sqm.

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79	11.53	Providing and laying Antiskid floor tiles of any sizes, 12 mm thickness with water absorption less than 0.08% and conforming to IS:15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including grouting the joints with white	8.40	Sqm.
80	11.78.1.1	Providing and laying vitrified floor tilesMulti/Double charged (Minimum top layerthickness 2.0mm) Neno Polished self design, indifferent size with water absorption less than 0.05%and conforming to IS:15622 of approved.I.NO 11.53, P. 205Providing and laying vitrified floor tiles in different sizes with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including grouting the joints with white cement and matching pigments etc., complete. make in all colours& shades, quality/ premium quality in flooring laid on 12mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white	315.48	Sqm.
81	11.79.1.1	Providing and laying vitrified floor tilesMulti/Double charged (Minimum top layerthickness 2.0mm) Neno Polished self design, indifferent size with water absorption less than0.05% and conforming to IS:15622 of approvedmake in all colours & shades, 1st quality/ premiumquality in skirting, dado and wall lining laid on12mm thick cement mortar 1:4(1cement :4sand)including grouting the joints with white cement andmatching pigments etc. complete	35.49	Sqm.
82	11.5	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (having thickness 9 to 10mm) 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 Cement Mortar 1:4 (1 Cement : 4 sand) including pointing the joints with white cement and matching pigments	14.30	Sqm.
83	11.82.1	Providing and laying digital print random design(PGVT)/(GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality including grouting the joints with white cement and matching pigments etc.	216.78	Sqm.
84	11.82.1.5	Providing and laying digital print random design (PGVT) / GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality including grouting the joints with white cement and matching pigments etc. complete For floors For floor glossy/ rustic /stain/matt finished laid on 20mm thick cement mortar 1:4 (1	150.70	Sqm.
85	11.83.1.4	Providing and laying digital print random design(PGVT)/(GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality / premium in skirting, riser, dado and wall lining laid our 12mm thick cement mortar 1:4 including grouting the joints with white cement and matching pigments etc. complete 11. 83.1 For skirting, dado and wall lining For skirting, riser, dado and wall lining etc. glossy/ rustic /stain/matt finished in all colours	200.28	Sqm.
86	11.40.2	Providing edge moulding to 18mm thick marble stone counters, Vanities, window sills etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.	105.00	Mtr.

S.N.	SOR Item No.	Description of Item	Quantity	Unit
87	11.50	Providing and laying rectified Glazed Ceramic wall tiles 300x450 mm or more (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, Furne Red Brown, laid on 12 mm thick Cement Mortar 1:3 (1 Cement : 3 sand) including pointing the joints with white cement	128.14	Sqm.
88	12.15	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm as per IS:277 in 240 mpa 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, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters	3870.52	Sqm.
89	12.6.1	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm + 0.05 % total coated thickness, Zinc coating 120gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15- 18 microns using self-drilling/ selftapping	206.00	Mtr.
90	12.6.6	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm + 0.05 % total coated thickness, Zinc coating 120gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15- 18 microns using self-drilling/ selftapping	951.60	Mtr.
91			0.00	
92	13.8.	6 mm cement plaster of mix : Cement Mortar 1:3 (1Cement,3 Sand)	335.84	Sqm.
93			0.00	
94	13.77.1	French spirit polishing : Two or more coats on new works including a coat	40.80	Sqm.
95	13.1.1	12 mm cement plaster of mix : 1:4 (1 cement : 4 sand)	486.38	Sqm.
96	13.1.2	12mm cement plaster of mix : :6 (1 cement : 6 sand)	1544.55	Sqm.
97	13.2.1	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 sand)	1544.55	Sqm.
98	15.2.1	15 mm cement plaster on the rough side of single or half brick wall of mix. 1:4 (1 cement : 4 sand)	495.44	Sqm.
99	13.5.1	15 mm cement plaster on rough side ofsingle or half brick wall finished with afloating coat of neat cement of mix13.5.1 1:3 1:3 (1 cement : 3 sand)	506.31	Sqm.
100	13.8	6 mm cement plaster of mix : 1:3 (1 cement : 3 sand)	110.43	Sqm.
101	13.9	6 mm cement plaster 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	299.92	Sqm.
102	13.10	Neat Cement Punning	1534.20	Sqm.
103	13.4.1	12 mm cement plaster finished with afloating coat of neat cement of mix : (1 cement : 3 sand)	491.55	Sqm.
104	13.67.2	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.	31.40	Sqm.
105	13.67.3	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	1528.87	Sqm.
106	13.41	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, Like birla white /JK white or equivalent, over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position	1979.97	Sqm.

S.N.	SOR Item No.	Discription of Item	Quantity	Unit
107	13.41	Providing and applying white cement based putty of average thickness 1 mm,of approved brand over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in	1080.42	Sqm.
108	13.49	Wall painting by any mechanical or manual means with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre. of approved brand and manufacture, including applying additional coats wherever required to	506.95	Sqm.
109	13.54.3	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :	1333.69	Sqm.
110	13.52	Finishing walls by any mechanical or manual means with Acrylic Smooth exterior paint (Economy Exterior) of required shade including all scaffolding. New work (Two or more coat applied @1.67ltr/10Sqm. over and including one coat undiluted exterior waterproofing coating @ 2.39 litre/10 Sqm. with crack bridging ability of upto 0.5mm on horizontal surfaces with an elongation of 150% and water proofing of upto 3 bars on	4634.29	Sqm.
111	13.65	Painting with synthetic enamel paint of approved and and manufacture of required colour to give an even shade: Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand	4494.38	Sqm.
112	13.64	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :13.68.1Two or more coats on new	46.62	Sqm.
113	16.1.1.2	Boring/drilling bore well of required dia perfectly vertical to receive 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 and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer-in-Charge, upto 90 metre depth	20.00	Mtr.
114	16.1.2.2	Boring/drilling bore well of required dia perfectly vertical to receive 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 and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer-in-Charge, upto 90 metre depth	70.00	Mtr.
115	16.1.4.2	Boring/drilling bore well of required dia perfectly vertical to receive 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 and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer-in-Charge, Beyond 90 metre depth	75.00	Mtr.
116	16.4.2	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed and approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer- in-	4.50	Mtr.
117	16.8.2	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 150 mm dia.	1.00	Each

S.N.	SOR Item No.	Description of Item	Quantity	Unit
118	16.9.2	Providing and fixing M.S. clamp of required dia made of 100 x10mm flat to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts and nuts of required size complete. M.S. clamp	1.00	Each
119	16.12	Providing and placing inposition filters to 40 mm diameter G.I. pipe with brass strainer of approved quality. Filter of 32 mm dia	1.00	Each
120	18.7.6	Supplying and laying of approved make HDPE pipe as per IS:4984 and IS:14333 with latest amendment for installation of submersible pump with necessary connection, socket/couplings, tees, etc. as required (PE-63 & working pressure 6 kgf/sq cm) 50 mm 50 mm Outer Dia.	0.00	
121	17.1.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, UPVC P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : White Vitreous china Orissa pattern W.C. pan of	2.00	Each
122	17.6.1	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm 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 : One urinal basin with 5 litre white P.V.C.	1.00	Each
123	17.11.2	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 : 630x450 mm flat back single pillar cock (china clay) White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P.	1.00	Each
124	17.58.2	Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes for working pressure of 4 kg/sqcm. (minimum wall	160.00	Mtr.
125	17.59.3.2	Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Single tee with door. 110x110x110 mm	60.00	Each
126	17.59.5.2	Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Bend 87.50. 110 mm bend	70.00	Each
127	17.61	Providing and fixing UPVC trap of self cleaning design complete. Including cost of cutting and making good the wall and floors. 100 mm	35.00	Each
128	17.78.1	Providing and fixing C.P. brass grating of approved quality and make conforming to IS: specification. 100 mm dia.	22.00	Each
129	18.6.2.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the	160.00	Mtr.

S.N.	SOR Item No.	Discription of Item	Quantity	Unit
130	18.6.2.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the	163.00	Mtr.
131	18.7.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making	96.00	Mtr.
132	18.7.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making	151.00	Mtr.
133	18.7.6	Supplying and laying of approved make HDPE pipe as per IS:4984 and IS:14333 with latest amendment for installation of submersible pump with necessary connection, socket/couplings, tees, etc. as required (PE-63 & working pressure 6 kgf/sq cm) 50 mm 50 mm Outer Dia.	110.00	Mtr.
134	18.5.7	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes U V stabilized and anti - microbial fusion welded, having thermal stability for hot and cold water supply including all PP - R plain and brass threaded polypropylene random fittings i/c trenching, refilling and testing of joints complete as per direction of Engineer-in-Charge. External work	854.00	Mtr.
135	18.28	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow	12000.00	Ltr.
136	18.29.1	Providing and fixing brass bib cock of approved quality. 15 mm nominal	21.00	Each
137	19.29.1	Constructing brick masonry road gully chamber 110x50x77.5cm with bricks in cement mortar 1:4 (1 cement : 4 sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete	2.00	Each
138	18.30.1	Providing and fixing brass stop cock of approved quality : 15 mm nominal	25.00	Each
139	19.31	Constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20m long complete as per	1.00	Each
140	18.55.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore.	8.00	Each
141	21.4.1	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) :	45.00	Sqm.

S.N.	SOR Item No.	Description of Item	Quantity	Unit
142	21.1.1.2	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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners . For fixed portion. Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868,	296.81	Kg.
143	21.3.1	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) :	27.03	Sqm.
144	21.2	Providing and fixing 50 micron thick Frosted heat /light control film to window/door glazing as marketed under the brand name garware/3M or	45.00	Sqm.
145	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top bottom pivot spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid	9.60	Sqm.
146	22.5	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, comers, junctions of pipes and masonry with polymer	391.00	Sqm.
147	22.6	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying : a) After surface preparation, first layer of slurry of cement @ 0.488 kg/Sqm. mixed with water proofing cement compound @ 0.253 kg/Sqm. b) Laying second 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. c) Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/Sqm. mixed with water proofing cement compound @ 0.670 kg/Sqm. and sand @ 1.289 kg/Sqm.. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be	240.00	Sqm.

S.N.	SOR Item No.	Description of Item	Quantity	Unit
148	22.7.1	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 300mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 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 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	26.26	Sqm.
149	25.1.1	Providing and fixing white vitreous china Anti germ Fluoro-Polymer Coated Water closet squatting pan with 100 mm sand cast Iron P and S- trap, and 7.2 liter Low level, dual flush, PP (Poly Propylene) made open slim wall hung cistern capacity 3 liter/6 liter flushing, with all fittings and fixtures complete including cutting and making	5.00	Each
150	25.2.2	Providing and fixing white vitreous china pedestal type Anti germ Fluoro-Polymer Coated Water Closet with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propylene) made 80 mm thick concealed flushing cistern, flushing capacity 3 litre/6 litre, with all fittings and fixtures complete including cutting and making good the wall and floors wherever required.Anti-germ Fluoro-Polymer Coated Water Closet European type W. C. pan size 360X475X395 mm with solid poly	5.00	Each
151	25.11.1	Providing and fixing white vitreous china flat back Anti germ fluoro-polymer coated urinal (Inbuilt spreaders, bottle trap and ceramic waste coupling) with 15mm brass pressmatic auto closing concealed urinal flush valve with wall flange (decol technology, 400000 operation warranted) i/c cutting and making good the wall and floors wherever required, all fittings and fixtures etc. complete .Size	2.00	Each
152	25.8.1	Providing and fixing white vitreous china type Anti germ fluoro-polymer coated counter top wash basin with 15 mm C. P. wall mounted pressmatic Pillar cock auto closing system with square wall flange and spout complete (decol technology), 32 mm C.P. brass waste coupling length 130mm and 32 mm C.P. brass bottle trap size 200x300mm i/c cutting and making good the wall and floors wherever required all fittings and fixtures etc. complete. Providing and fixing white vitreous china type Anti germ fluoro-polymer coated counter top wash basin Size 570x415x200mm with 15 mm C. P. wall mounted pressmatic Pillar	3.00	Each
153	25.19	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm andmin. body thickness 2mm, nickel plating 0.10micron and chrome plating 0.3 micron, quarterturn)Bib cock. (Premium Range)	36.00	Each
154	27.5	Providing and fixing of name plate for offices name of Stainless steel plate 304 grade of 1.50mm thick, including writing with computerized vinayle sheet letters of required size including fixing at required placed with studs, screws and rawl plugs etc. compete as per direction of engineer incharge.	2.55	Sqm.

S.N.	SOR Item No.	Description of Item	Quantity	Unit
155	27.8	Providing and fixing stainless steel English(Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade-304) Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall, plate and beam surface at any height with necessary nut and bolts/fastener wherever	2200.00	per Letter/ Cm/Mtr.
156	1.1.1 (Elec)	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in surface rigid steel conduit ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit including painting, screwless connector for joints etc. as required	2.00	Each
157	1.1.2 (Elec)	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in surface rigid steel conduit ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit including painting, screwless connector for joints etc. as required	2.00	Each
158	5.12.1 (Elec)	Supply of ISI Marked Direct On-Line Starters conforming to IS : 13947-4 with suitable over load relay range and contactor size, 415 V , 3 -Phase with two earthing terminals 5 HP	1.00	Each
159	9.2.8 (Elec)	Supplying & installation of required capacity of three phase, 50 Hz, 415V, deep well submersible pump steel body, as per IS of approved make, suitable upto 6 " tube well with control panel starter suitable for submersible pump with dry run protection, single phase preventer, connections, including clamp, bore cap etc. as required as per specifications but excluding pipe and connection cable. 5 HP with 8-11	1.00	Each
160	9.3.3 (Elec)	Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make. 6.0 sq.mm	193.00	Mtr.
161	1.6.6 (Elec)	Supply and fixing recessed mounting LED down lighter, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy > 100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79- 08/IS16106 (2012), IEC60598,	28.00	Each
162	1.14.4 (Elec)	Supplying and fixing flood light with high power LED of 3 to 6 Watt each assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy > 120 lm/Watt. luminaire having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF > 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598,	8.00	Each

S.N.	SOR Item No.	Description of Item	Quantity	Unit
163	Road SOR 3.3	Excavation in Soil using Hydraulic Excavator and Tippers with disposal up to 1000 meters. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting suitable earth to the embankment location and disposing off unsuitable earth with all lifts and lead up to 1000m as per relevant clauses	7728.00	Cum
164	Road SOR 1.1.2	Transportation By Mechanical Transport including loading, unloading and stacking. Excavated/compacted ordinary & other soil	6182.40	Cum
165	Road SOR 3.13	Construction of embankment with approved material having CBR>7 obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-1, 300-2 and as per relevant clauses of section-300.	2898.00	Cum
166	Road SOR 4.2	Crusher Run Macadam Sub Base/Base Course Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller as per clause 410 to form a layer of sub-base/Base in accordance to Table No. 400-14, 400-15 and as per clause of section 407 of	1581.12	Cum
167	Road SOR 10.71 (A)	Providing and laying Plain/Reinforced cement concrete as per drawing and technical specifications and as directed by Engineer-in-charge	96.76	CUM
168	Road SOR 10.71 (A)	Providing and laying Plain/Reinforced cement concrete as per drawing and technical specifications and as directed by Engineer-in-charge	185.36	CUM
169	Road SOR	Centering and shuttering including strutting, propping etc. and removal of	494.40	SQM
170	Road SOR 6.1	Dry Lean Cement Concrete Sub- base Construction of dry lean cement concrete Sub- base over a prepared sub-grade or drainage layer with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver finisher with electronic sensor, compacting with 8- 10 tonnes vibratory	966.00	Cum
171	Road SOR 6.4	Cement Concrete Pavement Construction of un-reinforced, dowel jointed, plain cement concrete pavement with M-30 grade concrete over a prepared subbase with cement , coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with electronic sensor slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per IRC-15-2011 and as per relevant clauses of section 602 of specifications complete but excluding cost of steel in dowel bars and tie rods etc. including groove cutting for width of 4 mm- 6mm and 1/3rd depth of PQC within 8-10 hrs of placing/ finishing of PQC including cost of cutting	2415.00	Cum
172	Road SOR 6.8	Providing and fixing Steel in dowel bar and tie rod including cradle, laps etc. complete required as per design. Mild steel confirming to IS: 432:1982 , Tor steel confirming to IS: 1786:2008 Tor Steel	7.234	MT

S.N.	SOR Item No.	Discription of Item	Quantity	Unit
173	Road SOR 9.2	Providing and Laying Reinforced Cement Concrete Pipe NP4/prestrssed concrete pipe on first class bedding in single row. Providing and Laying Reinforced cement concrete pipe NP4/prestrssed concrete pipe for culverts on first class bedding of granular material (cost of bedding included) in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in	311.30	RM
174		For Sanatery and Internal Electrification 2.93% of PAC		