

Name of Work- Proposed Construction of Building for Canara Bank's Rural self-employment Training Institute (RSETI) at Etah- UP							
FINANCIAL BID [SCHEDULE A- SCHEDULE OF QUANTITIES AND RATES]							
SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
<b>A</b>		<b>BUILDING CIVIL WORKS</b>					
		<b>SH- 1 Earthwork</b>					
1	2.6	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 disposal of excavated earth,lead upto 50 m and lift upto 1.5 m,disposed earth to be levelled and neatly dressed.					
	2.6.1	All kinds of Soil	cum	1550.00			
2	2.8	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,lift upto 1.5 m,including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m					
	2.8.1	All kinds of Soil	cum	100.00			
3	2.25	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 50m and lift up to 1.5m	cum	1650.00			
4	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation/banking excavated or stacked materials					
	2.26.1	All kinds of soil 1.5 m to 3.00 m	cum	600.00			
5	2.27	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete	cum	84.75			
6	2.34	Supplying chemical emulsion in sealed containers including delivery as specified.					
	2.34.1	chlorpyriphos/Lindane emulsifiable concentrate of 20%	Litre	375.00			
7		Diluting and injecting chemical emulsion for post constructional antitermite treatment(excluding the cost of chemical emulsion)					
		Treatment of soil under floors using chemical emulsion @ 1 litre per hole,300 mm apart including drilling 12 mm dia. Holes and plugging with cement mortar 1:2 ( 1 cement :2 coarse sand ) to match the existing floor					

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		with chlorpyriphos/Lindane emulsifiable concentrate 20% with 1% concentration	sqm	625.00			
8		Treatment of masonry using chemical emulsion @ 1 litre per hole,300 mm interval including drilling holes at 45 degree and plugging with cement mortar 1:2 ( 1 cement :2 coarse sand ) to the full depth of hole					
		with chlorpyriphos/Lindane emulsifiable concentrate 20% with 1% concentration	metre	125.00			
9		Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.					
		With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration.	metre	132.00			
10		Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same	metre	50.00			
		<b>SH -2 CONCRETE WORK</b>					
11	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:					
	4.1.8	1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)	cum	45.00			
12	4.2	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, under floors, sunken floors etc.upto floor five level,excluding the cost of centering, shuttering and finishing :					
	4.2.3	1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size )	cum	60.00			
13	4.3	Centering and shuttering including strutting,propping etc. and removal of form for					
	4.3.1	Foundations, footings, bases of columns etc. for mass concrete	sqm	160.00			
14	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal soize )	sqm	50.00			
15	4.13	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil	sqm	50.00			

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16	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75 mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	Sqm	100.00			
		<b>SH-3 REINFORCED CEMENT CONCRETE WORK</b>					
17	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:					
	5.9.1	Foundations, footings, bases of columns etc. for mass concrete	sqm	175.00			
18	5.9.2	Walls ( any Thickness ) including attached pilasters, buttresses,plinth beams and string courses	sqm	155.00			
19	5.9.3	Suspended floors, roofs, landings balconies and access platform	sqm	1100.00			
20	5.9.4	Shelves	sqm	35.00			
21	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers cantilevers,	sqm	650.00			
22	5.9.6	Columns, pillars, piers, abutments, posts and struts	sqm	625.00			
23	5.9.7	Stair( except landing) except spiral staircases	sqm	40.00			
24	5.9.13	Vertical & horizontal fins individually or forming box louvers band,fasias and eaves boards	sqm	5.00			
25	5.9.19	Weather shade, Chajjas, corbels etc., including edges	sqm	10.00			
26	5.22	Reinforcement for RCC work including straightening, cutting, bending, plancing in position and binding all complete. Upto Plinth Level					
	5.22.6	Thermo-Mechanically Treated Bars--Fe 500	Kg	21250.00			
27	5.22A	Reinforcement for RCC work including straightening, cutting, bending, plancing in position and binding all complete. above Plinth Level					
	5.22A.6	Thermo-Mechanically Treated Bars--Fe 500	Kg	34375.00			
28	5.30	Add or deduct for plaster drip course /groove in plastered surface or moulding to RCC projections	metre	250.00			
29	5.40	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
	5.40.1	All works up to plinth level	Cum	170.00			
30	5.40.2	All works above plinth & up to V level	Cum	275.00			
		<b>SH-4 BRICK WORK</b>					
31	6.1	Brick work with common burnt clay FPS( non modular ) bricks of class designation 7.5 in foundation and plinth in					
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	40.00			
32	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
	6.4.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	230.00			
33	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation & plinth in					
	6.12.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	20.00			
34	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					
	6.13.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	360.00			
35	6.15	Extra for providing and placing in position 2 nos. 6 mm dia M.S. bars at every third course of half brick masonry (with F.P.S bricks)	sqm	380.00			
36	6.44	Brick edging 7 cm. 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	150.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
		<b>SH - 5 MARBLE WORK</b>					
37	8.2	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 coarse 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 glass finish etc. complete at all levels.					
	8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra,black marble					
	8.2.1.2	Area of slab over 0.50 sqm	sqm	66.50			
38	8.2.2	Granite of any colour and shade					
	8.2.2.2	Area of slab over 0.50 sqm	sqm	35.00			
39	8.4	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	metre	200.00			
40	8.10	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of engineer-in - charge and finished smooth					
	8.10.2	Granite stone of approved shade	sqm	0.00			
		<b>SH -6 WOOD WORK</b>					
41	9.1	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).					
	9.1.2	Sal wood	Cum	1.00			
42	9.21	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 :					
	9.21.2	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws, fastners, tower bolts, sliding door bolt, handles, twin rubber stoppers complete as per drawing and direction	Sqm	47.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
43	322	Extra for 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.					
	a)	1 mm thick	Sqm	94.00			
44	9.23	Extra for providing with 2nd class teak wood beading 35x15 mm on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	47.00			
45	9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :					
	9.24.1	Rectangular or square.	Sqm	3.00			
46	9.83	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			
47	208	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, 150x10 mm aluminium tower bolts, 100 mm aluminium handle, hooks and eyes complete					
	b)	Kiln seasoned and chemically treated hollock wood.					
	(ii)	30 mm thick	sqm	2.4			
48	225	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, 150x10 mm aluminium tower bolts, 100 mm aluminium handle, hooks and eyes complete					
	a)	35 mm thick shutters.					
	(ii)	with ISI marked M.S. pressed butt hinges bright finished of required size - Kiln seasoned and chemically treated hollock wood.	sqm	2.4			
		<b>PVC DOORS</b>					
49	9.117	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ 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 frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge					
	9.117.1	Extruded section profile size 48x40 mm	m	165.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
50	9.118	Providing and fixing to existing door frames					
	9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm$ 0.2 mm) with inbuilt edging on both sides. 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 galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm$ 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 ( $\pm$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	Sqm	52.00			
		<b>S.H- 7 STEEL WORK</b>					
51	10.18	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm 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 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	each	60.00			
52	10.25	Steel work welded sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	300.00			
53	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets,Grill, gates and similar works	kg	3600.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
54	10.6	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 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.					
	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover.	Sqm	18.00			
55	10.7	Providing and fixing ball bearing for rolling shutters.	No.	6.00			
56	373	Extra for providing mechanical device chain and crank operation for operating rolling shutters.					
	a)	Exceeding 10.00 sqm and upto 16.80 sqm in the area.	Sqm	15.00			
57	10.5	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.					
	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces	Sqm	4.20			
		<b>SH- 8 FLOORING</b>					
58	11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	83.08			
59	11.13	Providing and fixing glass strips in joints of terrazo/ cement concrete floors					
	11.13.1	40 mm wide and 4 mm thick	metre	110.00			
60	11.23	Marble stone in flooring with 19 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with					
	11.23.2	rajnagar	sqm	12.00			
61	11.23.5	Udaipur Green Marble	sqm	20.00			
62	11.24	Extra for pre finished nosing to treads of steps of marble stone	mtr	66.00			



SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
63	11.25	Extra for marble stone flooring in treads of steps and risers using single length upto 2 mtr	sqm	32.00			
64	11.26	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) :					
	11.26.1	25 mm thick	sqm	16.80			
65	11.27	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	3.00			
66	11.36	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 @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	305.00			
67	11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.	sqm	86.89			
68	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) 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 coarse sand) jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.					
	11.41.2	Size of Tile 600x600 mm	Sqm	617.85			
69	11.46	Providing and laying Vitrified tiles 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 (1cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.					
	11.46.2	Size of Tile 600x600 mm	Sqm	80.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
70	11.6	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.					
	11.6.1	18 mm thick.	Sqm	10.00			
		<b>SH -9 ROOFING</b>					
71	12.21	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 :					
	12.21.1	In 75x75 mm deep chase	metre	190			
72	12.22	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 mX 1 mX 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	11.00			
73	12.41	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.					
	12.41.2	110 mm diameter	metre	80.00			
74	12.42	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.					
	12.42.5	Bend 87.5"					
	12.42.5.2	110 mm bend	each	12.00			
75	12.42.6	Shoe (Plain)					
	12.42.6.2	110 mm shoe	each	12.00			
76	12.44	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	12.00			
		<b>SH-10 FINISHING</b>					
77	13.4	12mm cement plaster of mix					
	13.4.2	1:6 (1 cement : 6 fine sand)	sqm	350.00			
78	13.5	15 mm cement plaster on rough side of single or half brick wall of mix :					
	13.5.2	1:6 (1 cement: 6 coarse sand)	sqm	1525.00			
79	13.16.	6 mm cement plaster of mix :					
	13.16.1	1:3 (1 cement : 3 fine sand)	sqm	1250.00			
80	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade					

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	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm	sqm	1000.00			
81	13.84	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour					
	13.84.2	Two coats	sqm	55.00			
82	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content					
	13.85.2	With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	sqm	20.00			
83	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	3080.00			
84	13.41	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade.					
	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer.	Sqm	1470.00			
85	13.60	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:					
	13.60.1	Two or more coats on new work.	Sqm	1500.00			
86	13.45	Finishing walls with textured exterior paint of required shade :					
	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @2.20kg/10 sqm.	Sqm	250.00			
87	536	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	500.00			
88	13.80	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	6100.00			
89	14.53	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :					
	14.53.1	One or more coats on old work.	Sqm	140.00			
90	13.68	French Spirit polishing					
	13.68.1	two or more coats on new work including a coat of wood filler	sqm	20.00			
91	13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement: 3 coarse sand) finished rough with sponge.	Sqm	1250.00			
		<b>SH -11 ALUMINIUM WORK</b>					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
92	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.					
	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	each	4.00			
93	21.8	Filling the gap in between aluminium frame & adjacent RCC /Brick /stone work by providing weather silicon sealent over backer rod of approved quality as per architectural drawings and directions of Engineer -in-Charge complete					
	21.8.1	upto 5 mm depth and 5 mm width	metre	380.00			
		<b>SH- 12 WATERPROOFING WORKS</b>					
94		All the water proofing works shall be guaranteed for minimumm of 5 years period and to cover the guarantee period 5% of the waterproofing bill amount of these items will be kept as additional security and after the guarnatee period the same will be returned without interest.					
	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of WC,Kitchen and the like consisting of					
		(i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound confirming to iS 2645 in recommended proportions including rounding off junctions of vertical and horizontal surface.					
		(ii) 2nd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand ) mixed with water proofing compound in recommended proportion including rounding off junctions of vertical and horizontal surface.					
		(iii) 3rd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area surface.					
		(iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm	sqm	250.00			
95	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs,balconies,terrace etc. consisting of following operations					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
	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 E-in- Charge over the RCC slab including adjoining walls up to 300 mm height including cleaning the surface before treatment.					
	b)	Laying brick bats with mortar using broken bricks/brick bats 25mm to 100mm 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 E-in- Charge over 20mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and as approved by E-in Charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.					
	c)	After two days of proper curing applying a second coat of cement slurry admixed with water proofing compound conforming to IS : 2645.and approved by E-in-Charge.					
	d)	Finishing the surface with 20mm 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 E-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 of 300 x 300 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.					
	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 cms.	sqm	610.00			
		<b>SH- 13 OTHER ITEMS</b>					
96	NS1	P/L 19 mm thick polished Udaipur Green mable composite flooring with rajnagar white marble ( which shall be paid seoerately ) over 20 mm cement mortar 1:4 ( 1 cement :4 coarse sand ) jointed with white cement slurry mixed with pigment of matching shade including rubbing and polishing complete'	sqm	140			
97	NS2	P/L AAC Block Light Weight aggregate dully rammed in sunken portion of Toilets	cum	22.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
98	NS3	Filling of good earth suitable for plants brought from outside in trenches, plinth, sides of foundations, over areas etc in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering complete as per direction of engineer incharge.	cum	1200			
99	NS4	Extra for providing and fixing spacer and cement based Grout with matching pigment as per drawing and direction. Area of Tile will be measured for payment	sqm	745			
100	NS5	Flag Post as per drawing and direction	no	1.00			
101	NS6	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 , fixed with rawl plugs and screws or with fixing clips, or with expansion hold fastners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt 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 including sliding and openable shutters of doors, windows & ventilators including providing and fixing hinges / pivots, rollers and all fittings, fastners,casement stays wherever required including the cost of PVC / neoprene gasket required and 6 mm thick float glass of approved make and SS mosquito mesh wherever required as per architectural drawings and di direction of Engineer-in-charge					
	a	Polyster Powder coated aluminium ( minimum thickness of polyster powder coating 50 micron) for Two Track Windows	sqm	45.00			
102	b	Polyster Powder coated aluminium ( minimum thickness of polyster powder coating 50 micron) for Three Track Windows	sqm	30.00			
103	c	Polyster Powder coated aluminium ( minimum thickness of polyster powder coating 50 micron) for ventilators	sqm	14.00			
104	d	Polyster Powder coated aluminium ( minimum thickness of polyster powder coating 50 micron) for fixed glazing including door	sqm	15.00			
104A	NS7	Dismantling of Existing concrete plateform including stacking of using of serviceable material for lean concrete and other works where ever required as per direction of engineer in charge	40	cum			
		<b>SUB-TOTAL OF BUILDING CIVIL WORKS- A</b>					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
<b>B</b>		<b>PLUMBING WORKS [INTERNAL + EXTERNAL]</b>					
		<b>SANITARY FIXTURES, SOIL &amp; WASTE, WATER SUPPLY, SEWERAGE AND DRAINAGE OF BUILDING</b>					
		<b>SH- 1 Sanitary Fixtures</b>					
105	1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern Sleek essence dual from Hindware with manually controlled device 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 size 580x440mm with integral type foot rests. Hindware acu pan cat No 20076	Each	14			
106	2	Providing and fixing white vitreous china floor mounted water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern model Sleek essence dual of Hindware, including flush pipe, with manually controlled device conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required Hindware Cat No 20044	Each	3			
107	3	Providing and fixing white vitreous china flat back lipped front urinal basin of 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. Range of two urinal basins Hindware cat no 60002 with C P brass Push Cocks cat no 310003	Set	2			
108	3 a)	Range of three urinal basins Hindware cat no 60002 with C P brass Push Cocks cat no 310003	Set	1			
109	4	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 Hindware Cat No F200003FT 15 mm nominal bore.	Each	14			
110	5	Providing and fixing wash basin fixing with 2 nos rag bolts, 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 White Vitreous China Flat back wash basin Hindware cat no 10010 with single 15 mm C.P. brass pillar tap. cat no F20001FT	Each	4			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
111	6	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings. Hindware Cat No 11027	each	4			
112	7	Providing and fixing Stainless Steel A Isis 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 :					
		Kitchen sink with drain board					
		510x1040 mm bowl depth 250 mm.	Each	2			
113	8	Providing and fixing C P Brass long body cock as per Hindware Cat No F200024FT for Sink	each	2			
114	9	Providing and fixing C P Brass long body cock as per Hindware Cat No F200011FT for Bath room	each	17			
115	10	Providing and fixing C P Brass long body cock as per Hindware Cat No F310002 for trough	each	13			
116	11	Providing and fixing C P Brass three flow over head shower as per Hindware Cat No 160045	each	3			
117	12	Providing and fixing C P Brass wall mixer as per Hindware Cat No 200020	each	3			
118	13	P/F PVC waste Pipe for sink, wash basin and urinals including PVC waste fittings complete					
		Flexible Pipe or normal pipe					
		40 mm dia.	each	12			
119	14	Providing and fixing mirror of superior glass ( of approved make ) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing.					
	a	oval shape 450x350 mm ( outer dimensions )	each	6			
120	b	Rectangular shape 1500x450 mm	each	7			
121	15	Providing & fixing C.P. hand spray with lever control (health faucet) and flexible hose 1 m long connection with C.P. holder for hand spray complete in all respects. Approved make Hindware Cat No--F160013	Each	3			
122	16	Providing & fixing 15mm dia C.P. brass angle valve for health faucet with C.P. brass wall flange with any other items complete including cutting and making good the walls wherever required. Hindware Cat No F200004FT	Each	3			
123	17	Providing & fixing 15mm dia C.P. brass angle valve with C.P. brass wall flange with any other items complete including cutting and making good the walls wherever required.Hindware Cat No F200005FT	Each	68			
124	18	Providing & fixing C.P. 450 mm long copper connecting pipe and brass nuts and washers complete of approved make including cutting and making good the walls wherever required.	Each	68			



SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
125	19	Providing & fixing C.P. brass Towel Ring fixed to wall with plastic rawl plugs and C.P brass screws including cutting and making good the walls wherever required of approved make cat no F880007	Each	12			
126	20	Providing and Fixing C P Brass towel rail of approved make. Hindware Cat No F880006	Each	11			
127	21	Providing & fixing C P Brass soap holder of approved make Hindware cat No F870006	Each	15			
		<b>SH- 2 Soil, Waste &amp; Vent Pipes</b>					
128	1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering for internal piping 1:2:4 ( 1cement : 2 Coarse sand : 4 graded stone aggregate 20 mm nominal size )					
	a	For 110 mm dia.	Metre	76			
129	b	For 90 mm dia.	Metre	64.6			
130	2	Supply, installation, jointing and testing uPVC pipe class B (I.S.13592) (SWR drainage system) including injection moulded fittings with bosses where required e.g, w.c. connectors, door or plain tees / bends, PVC pipe clamps, cowls, etc., wherever required, jointing the pipes and fittings with rubber rings cuttings and making good the walls and floors as required at site for vertical and horizontal soil waste and vent pipes (Vent and antisiphonage pipes may be solvent welded).					
	a	90 mm OD	Metre	57.4			
131	b	110 mm OD	Metre	126.4			
132	3	Supply, installation, jointing and testing uPVC P-Trap of 125x110 mm. including the cost of PVC fabricated inlet fitting (height raiser) of required length with PVC sockets weld to it for making branch connections from wash basin, sink, floor drains etc., as shown on the drawings including making the joint with cement rubber ring or solvent/ weld joints to trap.	Each	38			
133	4	Supply, installation, jointing and testing PVC clean out plug made out of uPVC bend , PVC pipe piece, threaded PVC socket with minimum 100 mm brass threaded cap, suitable insert keys for opening, including making joint to PVC main line as required complete in all respects.					
		110 mm dia	Each	5			
134	5	Providing and fixing heavy type stainless steel jali, stainless steel frame with or without lid for floor drains and floor traps, set in cement mortar including cutting and making good the floor.					
	a	100 mm dia over floor drains	Each	20			
135	b	125 mm dia over floor traps	Each	18			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
136	6	Providing and fixing floor drain made out of 110x90 mm PVC Elbow connected to PVC Pipe complete	Each	20			
		<b>SH- 3 Water Supply System</b>					
137	1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall					
	a	25 mm nominal outer dia .Pipes.	metre	70			
138	b	32 mm nominal outer dia .Pipes.	metre	90			
139	c	40 mm nominal outer dia .Pipes.	metre	54			
140	2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the walls etc.,					
	a	15 mm nominal outer dia .Pipes.	metre	90			
141	b	20 mm nominal outer dia .Pipes.	metre	108			
142	3	Constructing masonry Chamber 30x30x50cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock, with C.I surface box 100mmx100mmx75mm (inside) with hinged cover fixed in cement conc slab 1:2:4mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 ( 1cement :3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design.					
	a	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	5			
143	4	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 pipes but without fittings and the base support for tank	Per Litre	12000			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
144	5	Providing and fixing Gun Metal Ball valve with SS 304 ball, SS stem, renewable PTFE seat, teflon gland packing, stanmdard bore, lever operated, screwed female threads, body and seat test pressure 500 Psig. Complete in all respects.					
	a	20 mm dia. Nominal bore	Each	12			
145	b	25 mm dia. Nominal bore	Each	10			
146	c	32 mm dia. Nominal bore	Each	8			
147	6	Supply Installation and testing cast iron wafer type Butterfly valves Class (PN 16) SS 304 Disc, Nitrile rubber lining (lever operated upto 150 mm and gear operated for 200mm and more) complete with 2 Nos matching flanges rubber insertion, nuts, bolts and washer etc. of following sizes					
	a	50 mm dia. Nominal bore	Each	1			
148	7	Providing and fixing Aquamet-M Multi Jet, inferential type, magnetically coupled, having dry dial, hermetically sealed totaliser, confirming to ISO-4064 Class B 'Water Meter' including necessary test certificate for the meter from Local Authorities (For Municipal Connection & tubewell outlets).					
	a	50 mm dia nominal bore	Each	1			
149	8	Providing & fixing high pressure ball cock with copper float.					
	a	50 mm dia nominal bore	Each	3			
150	9	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 equipment, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90m depth below ground level. All types of Soil					
	a	300mm dia	mtr	90			
151	10	Gravel packing in tubewell construction in accordance with IS: 4097 including providing gravel fine/medium/coarse, in required grading and sizes as per actual requirement, all complete as per direction of Engineer-in-charge.					
			cum	1			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
152	11	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE410 mild steel screwed and socketed/ plain ended, casing pipes of required dia. Conforming to IS : 4270, of reputed & approved makes, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessoires, all complete, for all depths, as per director of Engineer-in-charge.					
	a	200mm nominal size dia having minimum wall thickness 5.40mm	mtr	80			
153	12	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE410 plain slotted(having slot of size 1.6/3.2mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, Conforming to IS : 8110, of reputed & approved makes, having wall thickness not less than 5.40mm including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.					
	a	200 mm nominal size dia	mtr	10			
154	13	Development of Tube well in accordance with IS: 2800 (Part 1) and IS: 11189, to establish maximum rate of usable 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, i/c disinfection of tube well, all complete including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	hour	72			
155	14	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of borewell housing/ casing pipe, removable as per requirement, all complete for bore well of.					
	a	200mm dia	each	1			
156	15	Providing and fixing MS Clamp of required dia to the top of casing/ housing pipe of tube well as per IS: 2800 (part 1) including necessary bolts & nuts of required size complete.					
	a	200mm clamp	each	30			
157	16	Providing and fixing bail plug/ bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS: 2800 (part 1).					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
	a	200mm dia	each	1			
158	17	Supplying, installation, testing & commissioning of three phase submersible motor pump set of KSB/KirloskarTexmo/Crompton Greaves/CRI/V-Guard make suitable for 100 mm bore well and above. 4 HP STAGE 9 to 50 with MCB controlled submersible motor pump set control panel including cabling, wiring and fixing in a suitable position within 50 metres. The rate is inclusive of pump, starter, panel box, cable, wire and other accessories as required for its successful commissioning. The submersible pump is to get approved from competent authority before installation.	each	1			
159	18	Supplying, Installation, testing and commissioning of three phase booster motor pump set of approved make with 3 hp capacity with MCB control including cabling, wiring, panel box complete to lift the water from under ground tank to over head tank with necessary pipings, connections etc all complete as per direction of engineer incharge	each	1			
		<b>SH- 4 External Sewerage</b>					
160	1	Excavating trenches of required width for pipes, cables etc. including excavation for sockets and dressing of sides, ramming of bottoms, depth upto 1.5 M including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cms 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. All kinds of soil.					
	a	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.	Metre	84			
161	2	Providing and laying cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) around S.W./ RCC / PVC pipes including bed concrete as per standard design.					
		150 mm diameter	metre	84			
162	3	Providing and fixing square mouth S.W. gully trap grade 'A' complete with C.I. grating, brick masonry chamber with water tight C.I. cover with frame of 300x300 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.					
	a	150x100 mm size P type with Sewer bricks of class designation 75 ,With sewer brick conforming to IS : 4885	Each	6			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
163	3	Providing and Laying non-pressure NP2 class ( light duty ) RCC 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					
		150 mm dia. RCC pipe	metre	84			
164	4	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement :4 coarse sand ) with RCC top slab with 1:2:4 mix ( 1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size ) foundation concrete 1:4:8 mix ( 1 cement :4 coarse sand :8 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.					
		Inside size 90x80cm.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)					
		With sewer bricks confirming to IS 4885	each	7			
165	5	Extra for depth for manholes					
	a	Size 90x80 cm					
		With sewer bricks confirming to IS 4885	metre	3			
		<b>SH- 5 SEPTIC TANK &amp; SOAK PIT</b>					
166	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 disposal of excavated earth,lead upto 50 m and lift upto 1.5 m,disposed earth to be levelled and neatly dressed.					
	a	All kinds of Soil	cum	138			
167	2	Extra for every additional lift of 1.5 m or part thereof in excavation/banking excavated or stacked materials					
	a	All kinds of soil 1.5 m to 3.00 m	cum	77			
168	3	Providing and laying in position cement concrete of specified grade					
		excluding the cost of centering and shuttering - All work up to plinth level:					
	a	1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)	cum	3.5			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
169	4	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but , excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately)					
	a)	All works up to plinth level.	Cum	30.5			
170	5	Centering and shuttering including strutting, propping etc. and removal of form for:					
	a	All work up to Plinth Level	sqm	164.4			
171	6	Reinforcement for RCC work including straightening, cutting, bending, planing in position and binding all complete. Upto Plinth Level					
	a	Thermo-Mechanically Treated Bars--Fe 500	Kg	3050			
172	7	20mm waterproof cement plaster of mix:					
	a	1:4 (1 cement : 4 coarse sand)	sqm	163			
173	8	6mm cement plaster of mix:					
	a	1:3 (1 cement : 3 fine sand)	sqm	50			
174	9	Providing and fixing soil, waste and vent pipes :					
	a	100 mm dia Sand cast iron S&S pipe as per IS: 1729	metre	6			
175	10	Providing and fixing terminal guard					
	a	1000 mm Sand cast iron S&S pipe as per IS: 1729	each	2			
176	12	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixtur of cement mortar in the proportion of 1:1 ( 1 cement : 1 fine sand ) including testing of joints etc. complete					
	a	150 mm diametre	metre	5			
177	13	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
		minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	14			
178	14	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality					
	a	M.D-20					
		Circular shape 500 mm internal diameter	each	3			
179	15	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 with common burnt clay FPS non modular bricks of class designation 75 standard design.	each	1			
		<b>SUB-TOTAL OF PLUMBING WORKS [INTERNAL + EXTERNAL]- B</b>					
<b>C</b>		<b>BOUNDARY WALL WORKS</b>					
180		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,lift upto 1.5 m,including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m					
		All kinds of Soil	cum	36.86			
181		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 50m and lift up to 1.5m	cum	36.86			
182		Providing and laying in position cement concrete of specified grade					
		excluding the cost of centering and shuttering - All work up to plinth level: 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)	cum	6.21			



SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
183		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 floors etc.upto floor five level,excluding the cost of centering, shuttering and finishing :					
		1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size )	cum	0.00			
184		Centering and shuttering including strutting,propping etc. and removal of form for					
		Retaining walls,return walls,walls ( any thickness ) including attached pilasters,buttresses,plinth and string courses,fillets etc.	sqm	217.38			
185		Centering and shuttering including strutting, propping etc. and removal of form for:					
		Foundations, footings, bases of columns etc. for mass concrete	sqm	40.91			
186		Reinforcement for RCC work including straightening, cutting, bending, plancing in position and binding all complete. Upto Plinth Level					
		Thermo-Mechanically Treated Bars--Fe 500	Kg	4875.00			
187		Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.					
		All works up to plinth level	Cum	38.96			
188		Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
		Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	92.36			
189		12mm cement plaster of mix					
		1:6 (1 cement : 6 fine sand)	sqm	300.00			
190		15 mm cement plaster on rough side of single or half brick wall of mix :					
		1:6 (1 cement: 6 coarse sand)	sqm	35.00			
191		6mm cement plaster of mix:					
		1:3 (1 cement : 3 fine sand)	sqm	67.50			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
192		Removing of Old plaster and providing 15 mm new plastering	sqm	424.80			
		Finishing walls with water proofing cement paint of required shade					
193		New Work ( Two or more coats applied @ 3.84 kg/10 sqm	sqm	1100.00			
194		Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour					
		Two coats	sqm	20.92			
195		Providing and fixing Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia.etc. complete.	kg	448.20			
196		Fencing with angle iron post placed at required distance embedded in cement concrete blocks every 15th posts,last but one end post and corner post shall be strutted on both sides and end posts on one side only and provided with horizontal lines and two diagonal interwoven with horizontal wires,of barbed wire weighing 9.38 kg per 100 m ( minimum ) between the two posts and fixed with G.I staples,turn buckles etc. complete ( cost of posts,struts,earthwork and concrete work to be paid for seperately ).payment to be made pr metre cost of total length of barbed wire used.					
		With G.I. barbed wire	metre	1743.00			
197		Providing and fixing Structural steel gate as per drawing with all hinges, rollers, tee grouting etc complete and as per direction of engineer in charge	Kg	400.00			
198		Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75 mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth	sqm	90.00			
		Plinth Protection	sqm	162.00			
198A		RCC Culvert near main gate as per drawing and direction	LS				
		<b>SUB-TOTAL OF BOUNDARY WALL WORKS- C</b>					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
<b>D</b>		<b>INTERNAL ROAD &amp; PATHWAYS</b>					
199		Preparation and consolidation of sub grade with power road roller of 8to 12 tonne capacity after excavating earth to an average of 22 5 cm depth,dressing to camber and consolidating with road roller including making good the undulations etc. and rerolling the sub grade and disposal of surplus earth lead upto 50 metres.	sqm	875.00			
200		Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	cum	196.875			
201		Supplying and stacking at site					
		90 mm to 45 mm size stone aggregate	cum	90			
202		63mm to 45 mm size stone aggregate	cum	72			
203		53mm to 22.4 mm size stone aggregate	cum	57			
204		Stone screening 13.2 mm nominal size ( Type A)	cum	35			
205		Stone screening 11.2 mm nominal size ( Type B)	cum	25			
206		Moorum	cum	21			
207		Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications including spreading in uniform thickness,hand picking,rolling with 3 wheeled road/ vibratory roller 8-10 tonnes in stages to proper grade and camber,applying and brooming requisite type of screening / binding materiak to fill up interstices of coarse aggregate watering and compacting to the required density.	cum	300			
208		Surface dressing on new surface in two coats with bitumen of grade VG -10 of approved quality using 1.8kg.of bitumen per sqm with 1.5cum of stone chippings 13.2mm nominal size per 100 sqm of road surface for first coat and 1.1kg. of bitumen per sqm. with 1.00 cu. metre of stone chippings 11.2mm nominal size per 100 sqm. of road surface for second coat including consolidation of each coat separately with road roller of 6 to 8 tonne capacity etc. complete.	sqm	0			
209		Providing and applying tack coat using hot straight run bitumen of grade 80/100 including heating the bitumen,spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler,cleaning and preparing the existing road surface as per specifications:					
		On W.B.M @ 0.75 kg /sqm	sqm	0			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
210		2.5 cm. premix carpet surfacing with 2.25 cum and 1.12 cum of stone chipping of 13.2mm and 11.2 mm size respectively per 100 sqm. And 52 kg and 56 kg of hot bitumen per cum of stone chipping of 13.2 mm and 11.2 mm size respectively including a tack coat with hot straight run bitumen including consolidation with road roller of 6 to 9 tonne capacity etc. complete ( tack coat to be paid for seperately )					
		With refinery modified bitumen CRMB 55 confirming to IRC : SP :53-1999.	sqm	0.00			
211		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 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	10			
212		Providing and laying seal coat of premixed fine aggregate ( passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface including rolling and finishing with road roller all complete.	sqm	0.00			
213		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 fine sand etc. all complete as per the direction of Engineer-in-charge. (OPTIONAL)	sqm	625.00			
		<b>Footpath and drains</b>					
214		Providing and laying in position cement concrete of specified grade					
		excluding the cost of centering and shuttering - All work up to plinth level:					
		1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40mm nominal size)	cum	32.96			
215		15 mm waterproof plastering with a floating coat	sqmtr	327.60			
216		Brick work 1:6 (1 cement : 6 coarse Sand)	cum	38.64			
217		Providing and laying of 250 dia RCC pipe below the Road to route any services, cable etc as per direction of engineer incharge	mtr	140.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
218		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.	nos	210.00			
219		Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :					
		With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	nos	10			
220		Providing and fixing Designer concrete external paver Tile with cement coarse sand mortar 1:4 on Footpath as per drawing and direction of engineer in charge	100	sqm			
220A		Providing and Fixing Saucer Drain of 250 mm dia around Plinth Protection with base concrete and jointing with stiff mix of cement mortar of 1:2 (1 cement : 2 fine sand) as per drawing and direction of engineer in charge	132	mtr			
		<b>SUB-TOTAL OF INTERNAL ROAD &amp; PATHWAYS WORKS- D</b>					
<b>E</b>		<b>UNDER GROUND WATER TANK</b>					
221	1	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, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m					
		All kinds of Soil	cum	76.00			
222	2	Extra for additional depth of 1.5 or part thereof	cum	27.00			
223	3	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 50m and lift up to 1.5m	cum	76.00			
224	4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
	a	1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)	cum	2.00			
225	b	1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40mm nominal size)	cum	0.00			
226	5	Centering and shuttering including strutting, propping etc. and removal of form for:					
		All works up to plinth level	sqm	92.92			
227	6	Reinforcement for RCC work including straightening, cutting, bending, plancing in position and binding all complete. Upto Plinth Level					
		Thermo-Mechanically Treated Bars--Fe 500	Kg	1423.00			
228	7	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.					
		All works up to plinth level	Cum	14.23			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
229	8	Brick work with common burnt clay FPS( non modular ) bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.00			
230	9	20 mm waterproof cement plaster of mix 1:3 1:4 (1 cement : 3 coarse sand)	sqm	43.52			
231	10	6mm cement plaster of mix: 1:3 (1 cement : 3 fine sand)	sqm	22.07			
232	11	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	6.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
233	12	Providing and fixing M S cover as per drawing and direction with locking arrangement complete	Kg	25.00			
		<b>SUB-TOTAL OF UNDER GROUND WATER TANK WORKS- E</b>					
<b>F</b>		<b>GUARD ROOM WORKS</b>					
234	1	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,lift upto 1.5 m,including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m					
		All kinds of Soil	cum	13.13			
235	2	Extra for additional depth of 1.5 or part thereof	cum	0.00			
236	3	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 50m and lift up to 1.5m	cum	13.13			
237	4	Providing and laying in position cement concrete of specified grade					
		excluding the cost of centering and shuttering - All work up to plinth level:					
	a	1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)	cum	1.30			
238	b	1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40mm nominal size)	cum	1.00			
239	5	Centering and shuttering including strutting, propping etc. and removal of form for:					
		All works up to plinth level	sqm	15.00			
240	6	Reinforcement for RCC work including straightening, cutting, bending, plancing in position and binding all complete. Upto Plinth Level					
		Thermo-Mechanically Treated Bars -Fe 500	Kg	225.00			



SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
241	7	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.					
		All works up to plinth level	Cum	2.30			
242	8	Brick work with common burnt clay FPS( non modular ) bricks of class designation 7.5 in foundation and plinth in					
		Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	2.50			
243		superstructure	cum	7.50			
244	9	15 mm plaster					
		1:6 (1 cement : 6 coarse sand)	sqm	55.00			
245		12 mm plaster 1:6	sqm	30.00			
246	10	6mm cement plaster of mix:					
		1:3 (1 cement : 3 fine sand)	sqm	27.00			
247	11	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75 mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth	Sqm	13.50			
248	12	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal soize )	sqm	2.50			
249	13	Providing and fixing 18mm thick gang saw cut mirror polished pre moulded and prepolished machine cut for kitchen platforms, venity 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 coarse 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 glass finish etc. complete at all levels.					
		Raj Nagar Plain white marble/ Udaipur green marble/ Zebra,black marble					
		Area of slab over 0.50 sqm	sqm	2.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
250	15	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.	sqm	8.50			
251	16	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 :					
		In 75x75 mm deep chase	metre	15			
252	17	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 mX 1 mX 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	1.00			
253	18	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.					
		110 mm diameter	metre	3.00			
254	19	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.					
	a	Bend 87.5"					
		110 mm bend	each	1.00			
255	b	Shoe (Plain)					
		110 mm shoe	each	1.00			
256	20	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terrace 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 E-in- Charge over the RCC slab including adjoining walls up to 300 mm height including cleaning the surface before treatment.					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
	b)	Laying brick bats with mortar using broken bricks/brick bats 25mm to 100mm 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 E-in- Charge over 20mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and as approved by E-in Charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.					
	c)	After two days of proper curing applying a second coat of cement slurry admixed with water proofing compound conforming to IS : 2645.and approved by E-in-Charge.					
	d)	Finishing the surface with 20mm 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 E-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 of 300 x 300 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.					
		With average thickness of 120 mm and minimum thickness at khurra as 65 cms.	sqm	13.00			
257	21	M S door and window with glazing complete with all fittings as per drawing and direction	sqm	5.00			
258	22	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade.					
		New work (two or more coats) over and including water thinnable priming coat with cement primer.	SQM	57			
		<b>SUB-TOTAL OF GUARD ROOM WORKS- F</b>					
<b>G</b>		<b>RAIN WATER HARVESTING PIT [open pool]</b>					
259	1	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,lift upto 1.5 m,including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
		All kinds of Soil	cum	220.00			
260	2	Extra for additional depth of 1.5 or part thereof	cum	110.00			
261	3	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 50m and lift up to 1.5m	cum	220.00			
262	4	Providing and laying in position cement concrete of specified grade					
		excluding the cost of centering and shuttering - All work up to plinth level:					
	4.1	1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)	cum	8.50			
263	4.2	1:2:4 (1 cement: 2 coarse sand: 4graded stone aggregate 40mm nominal size)	cum	14.00			
264	5	Centering and shuttering including strutting, propping etc. and removal of form for:					
		All works up to plinth level	sqm	160.00			
265	6	Brick work with common burnt clay FPS( non modular ) bricks of class designation 7.5 in foundation and plinth in					
		Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5.00			
266	7	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.					
		All types of soil					
		300 mm dia	metre	60.00			
267	8	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.					
		150 mm nominal size dia.	metre	60.00			
268	9	Supplying, filling, spreading & levelling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	12.00			
269	10	Supplying, filling, spreading & levelling gravels of size range 5 mm to in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge	cum	6.00			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
270	11	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.	cum	6.00			
271	12	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.	each	1.00			
272	13	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I). 150 mm dia.	each	1.00			
273	14	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 fine sand etc. all complete as per the direction of Engineer-in-charge.	sqm	110.00			
274	15	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. 150 mm clamp	each	1			
		<b>SUB-TOTAL OF RAIN WATER HARVESTING PIT WORKS- G</b>					
<b>H</b>		<b>ELECTRICAL WORKS [INTERNAL AND EXTERNAL]</b>					
		<b>SH 1- WIRING POINTS, CIRCUIT WIRING, SUB MAINS, DISTRIBUTION BOARD &amp; MCB's ETC.</b>					
275	1	<b>COPPER WIRING IN PVC CONDUIT</b>					
	1.1	Point wiring in PVC conduit, with modular type switch: Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mmFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5sq.mm. FRPVC insulated copper conductor single core etc as required. (GROUP C) ( Switch board to switch board wiring to be measured on linier basis)	PT	385			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
276	1.11	Wiring for twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRPVC insulated copper conductor single core cable etc as required. note: REFER CLAUSE 3.4.7 of CPWD i) A light point controlled by two number of two way swirtches shall be measured as two points from fitting the switch on either side and classified according to clause 3.4 4 ii) No deduction shall be made for nonprovision of more tha one ceiling rose or connector in such case.	PT	6			
277	1.19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	M	60			
278	1.53	Supplying & drawing of UTP cable 4 pair CAT 6 LAN cable in the existing surface/recessed steel conduit as required including making termnations.					
	1.53.1	1 run cable	M	40			
279	1.53.2	2 run cable	M	12			
280	1.53.3	3 run cable	M	27			
281	1.53.4	4 run cable	M	37			
282	1.2	Supplying & fixing following sizes steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
	1.20.2	25mm	M	111			
283	1.22	Supplying & fixing metal box of following sizes (normal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.					
	1.22.4	150mm X 75mm X 60mm deep	Each	12			
284	1.31	Supplying and fixing suitable GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required. ( for light plugs to be used in non residential buildings.)	PT	76			
285	1.32	S/F power plug point modular type accessories: Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pins 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, paintings etc. as required.	PT	32			
286	1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	79			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
287	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	10			
288	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches/data outlet in recess etc as required. (for telephone outlet)&TV & data					
	1.27.1	1 or 2 modules (75mmx75mm)	Each	58			
289	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
	1.24.7	Tv antenna socket Outlet	Each	6			
290	1.24.6	telephone socket outlet.	Each	9			
291	1.12	Power plug wiring in PVC conduit(2x4 sq.mm); Wiring for power plug with 2x4 sq.mm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit along with 1 NO 4 sq.mm FR PVC insulated copper conductor single core cable for loop earthing as required.	M	330			
292	1.14.2	Circuit / sub-main wiring in PVC conduit: Wiring for circuit/ sub main wiring along with earth wire the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required. (2x2.5 sq.mm + 1x 2.5.5 sq.mm earth wire.)(for circuits and lights socket wiring)	M	1300			
293	1.14.4	Circuit / sub-main wiring in PVC conduit: Wiring for circuit/ sub main wiring along with earth wire the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required. (2x6 sq.mm + 1x 6 sq.mm earth wire) for UPS Incoming and upto UPSDB	M	35			
294	1.14.9	Circuit / sub-main wiring in PVC conduit: Wiring for circuit/ sub main wiring along with earth wire the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required. (4x6 sq.mm + 2x 6 sq.mm earth wire)(for power DB) 4x4 + 2X4 for light DB	M	25			
295	1.21.2	Supplying and fixing of following sizes of PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required. (25mm)	M	100			
	2	<b>SH- 2 MCBs</b>					
296	2.10.1	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' curve, miniature circuit breaker suitable for Inductiv load of following poles in the existing MCB DB complete with connections, testing and commissioning etc.(Single pole)	EACH	94			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
297	2.10.2	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' curve, miniature circuit breaker suitable for Inductiv load of following poles in the existing MCB DB complete with connections, testing and commissioning etc.(single pole and neutral)	EACH	1			
298	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	EACH	5			
299	2.12	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
		40 A	EACH	2			
300	2.13	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	2.13.1	40A	EACH	3			
301	2.132.2	63 A	EACH	1			
302	2.21	Providing and fixing M.V. anger notice plate of 200mm x 150mm, made of mild steel, at least 2 mm think,and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	EACH	1			
	3	<b>SH-3 MCB DISTRIBUTION BOARD</b>					
303	2.3.2	Supplying and fixing following way, single pole and neutral, steel sheet, MCB distribution board, 240V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. ( But without MCB/RCCB/ISOLATOR) (2+8 way)(UPS) PORTACABIN	EACH	3			
304		Supplying and fixing following way, single pole and neutral, steel sheet, MCB distribution board, 240V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. ( But without MCB/RCCB/ISOLATOR) (2+12 way)(DBUPS first floor)	EACH	1			
305	2.4.3	Supplying and fixing following way, horizontal type three pole and neutral, steel sheet, MCB distribution board, 415V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. ( But without MCB/RCCB/ISOLATOR) (PORTACABIN					
		4 WAY ( 4+12) for power DB1	EACH	1			
306		6 WAY (4+18) for power DB2	EACH	1			
307		8 WAY (4+20) for lightDB1 & light DB2	EACH	2			



SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
308	2.15	Suppling abd fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (rccb), having a sensitivity current upto 300 milliampere in the existing MCB DB complete with connections, tsesting and commissioning etc. as required.					
	2.15.3	63 amps	EACH	1			
309	2.15.2	40 amps	EACH	4			
310	2.14.2	Suppling abd fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (rccb), having a sensitivity current upto 300 milliampere in the existing MCB DB complete with connections, tsesting and commissioning etc. as required.(UPSDB)	EACH	2			
	4	<b>SH -4 EARTHING</b>					
311	5.4	Earthing with G.I earth 600 mm x 600 mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. ( but with charcoal or coke and salt) as required	EACH	2			
312	5.11	Providing and fixing 25mm x 5mm G.I. strip in 40mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt spring, washer excavation and re-filling etc. as required.	M	10			
313	5.15	Poviding and fixing 25mm x 5mm G.I. strip on surface or in recess for connections etc. as required.	M	10			
314	5.9	Supplying and laying 25mm x 5mm G.I. strip in at 0.50 meter below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. ( jointing shall be done by overlapping and with 2 sts of G.I. nut bolt & spring washer spaced at 500mm)	M	10			
	6	<b>SH- 5 FIXING OF FAN AND FIXTURES</b>					
315	1.18	Supplying and drawing following pair 0.5 sq. mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.					
	1.18.2	2 pair	M	85			
316	1.35	Erection of incandescent LED fittings: Erection of wall bracket/ ceiling fittings of all sizes and shapes containing upto two GLS lamps per fitting, complete with all accessories including connection etc. as required.	Each	178			
317	1.41	ITC fluorescent fitting directly on surface: Installation, testing and commissioning of pre-wired, fluorescent fitting/ compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection w	EACH	26			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
318	1.44	ITC ceiling fan/bracket fans: Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.	EACH	79			
319	1.49	Numbering of ceiling fan/ exhaust fan/ fluoresent fittings as required.	EACH	105			
320	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.					
	1.50.1	Upto 450 mm sweep	EACH	9			
321	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all size.	EACH	9			
		<b>SH-6 SUPPLY OF FANS AND FIXTURES</b>					
322	NSR	PHILIPS DN170CLED 10S	EACH	30			
323	NSR	HAVELLS LHEAAGP69PL1W015	EACH	33			
324	NSR	BAJAJ BZSSQL 18W	EACH	111			
325	NSR	CEILING FAN (bajaj-EDGE)	EACH	79			
326	NSR	BRACKET FAN (usha maxx)	EACH	19			
327	NSR	EXHAUST FAN (Crompton Briskair)	EACH	9			
328	NSR	BRACKET LIGHT ( Havels-LHEHCXPBIN1W006)	EACH	4			
329	NSR	TUBE LIGHT ( bajaj-BLRB 18W CW)	EACH	11			
330	NSR	BULK HEAD (philips)	EACH	6			
331	NSR	MIRROR LIGHT (havells-LHEXBLP7INW009)	EACH	12			
332	NSR	Supplying and fixing following modular data outlet on the existing modular plate & box including connections but excluding modular plate etc. as required. Data outlet CAT6 rj45 similar to havels make Morano CAT ACMKRWW451	EACH	43			
333	NSR (i)	Supply installation and commissioning of wall / free standing floor mounted dust and veronin proof Compartmentalized Metalized cubical panel made out of CRCA sheet required hardware duly treated for derusting in 7 tank process with dephosphating and with powder coating on both sides of panel in desired shade. The panel having PU/Neoprene rubber gasket of not less than 3mm thickness, separate detachable gland plate MS base chaaneel,hinged door with locking arrangement foe equipment/switch gear thickness of sheet shall not be less than 1.6mm upto 600mm length/width of any compartment and be of 2.0 mm above 600mm load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments haing bolted type doors with / without detachable extension type structure incorporating the following.					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
		in coming :					
		100 Amp.MCCB 4P					
		Voltmeter with S.S					
		SET Ammeter with S.S and CTS					
		Busbar -125 Amp. 4 Stripe of equal size - of required length(sleeved)					
		outgoing :					
		40 DP -2 nos.					
		40 Amps.4PMCB - 5 nos.					
		63Amps. 4P 1no.					
		Spare - 4 nos 40A TPN MCB	EACH	1			
		<b>SH- 7 EXTERNAL ELECTRICAL ESTIMATE</b>					
334	5.1	Earthing with G.I. earth pipe 4.5 metre long, 40mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt ) as required.	EACH	1			
335	5.12	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe fro earth electrode including connection with G.I. thimble excavation and re-dilling as required.	M	5			
336	5.18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	M	5			
337	7.3	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including exavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.					
	7.3.1	upto 35 sq.mm.	M	630			
338	7.3.2	above 35 sq.mm. and upto 95 sq. mm.	M	70			
339	9.1	Supply & making end terminator with brass compressor gland and aluminum lugs for following size of PVC insulated & PVC sheated / XLPE aluminum conductor cable 1.1KV grade as required.					
	9.1.2	(a) 2 x 10 sqmm.	EACH	2			
340	9.1.11	(b) 3.5 x70 sqmm.	EACH	2			
341	9.1.1	( c ) 2 x 6 sqmm.	EACH	4			
342	9.1.32	( d ) 4 x 10 sqmm.	EACH	2			
343		Supply of 4.5 m GI pipe of 40mm & 3.2m thickness complete with base plate 300x300x10mm. Thickness welded to pole M.	EACH	15			

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
344		P & F IP-65 Protected street light luminaries on existing bracket suitable for LED 45W Complete with driver etc. complete as respect Similar to BAJAJ EDGE SERIES BRTFG 45W	EACH	18			
345		Supply and fixing of feeder pillar box made of 2mm CRCA MS sheet of 24MP^1 phase 2 wire double pole l type. Complete in all respect as required. Including 40AMP DPMCB as in comer and MCB as all going, brass stand and nuts copper bus bar for main and interconnection. MS angle frame 50x50x6mm gronted with CC of M-10 grade to achieve the height of 1.5ft above road level surface for following out goings. MCB 16 Amp. 6NOS. - 4 SPARE.	EACH	1			
346		Supply of PVC insulated XLPE cable of 1.1 KV grade with aluminum conductor Armoured of IS of approved make (Sky tone/ National/ Havells) of following size.					
		(a) 2x 4sq.mm. for flood light	M	35			
347		(c) 2x 6 sq.mm.	M	440			
348		(d)2 x 10 sq.mm.	M	70			
349		(e)4x10 sq.mm.	M	80			
350		(f) 3.5 x 70 sq.mm. (main cable)	M	70			
351		wiring upto fixture supplying & drawing following size of PVC insulated PVC sheathed copper conductor two core un arm cable in side pole from junction box to fixtures including making connecting through crimpng including cost of copper length. 2X 4 sqmm	E	220			
352		Supply and fixing of decoration LED post top luminarie complete with Driver etc suitable for fixing on GI pole of 4.5m. Height 40 mm dia 40W. (Similar to BAJAJ BGCL 40W:LED 2 nos. gate light).	EACH	17			
353		Supply and fixing of LED floodlight 30W complete with driver etc. Similar to BJFL 30W LED	EACH	3			
354		Supply and fixing terminal box made out of GI sheet 16 G lockable from and in corparation 6 amps. MCB- 1no. Busbar 50 amps brass nuts bolts as required. Busbar MCB's to be fixed on backdate sheet 6 MM thick carpelte with respect (Surface or recessed).	EACH	33			
355		BRACKET- Supplying and fixing of 32 mm dia x 2.00 metres long G.I. pipe (medium class) bracket for mounting of fluorescent/HPMV/HPSV/LED street light fitting on wall including bending the pipe to the required shape, 2nos. 40mmx3mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as rrequired.	EACH	18			
		<b>SUB-TOTAL OF ELECTRICAL WORKS [INTERNAL +EXTERNAL]- H</b>					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
<b>I</b>		<b>FIRE PROTECTION WORKS</b>					
		<b>SH 1- DOWN COMER System</b>					
356	1	S/L/J/T of following sizes of Heavy class (C class) mild steel pipe, flanges and fitting such as bends, tees, reducers, rubber insertions and galvanized nuts and bolts 'heavy class ' confirming to IS:1239-1974 part -I and amendment I/c fixing the pipe on wall / ceiling with suitable MS strip/clamps/bracket and painting with one coat of primer and two or more coats of synthetic enamel paint etc. complete as required.(Internal works).					
	a)	25mm dia	metre	2			
357	b)	80mm dia	metre	12			
358	c)	100mm dia	metre	3			
359	2	Providing and fixing internal fire hydrant comprising of SS Fire Hydrant Valve 80mm inlet with single headed with single outlet with control and fitted with 63mm dia instantaneous female coupling on the outlet complete with orifice flange as required, blank cap and chain locations as per drawings (inlet flanges to I.S 5290-1977 class C)	each	2			
360	3	Providing and fixing 63mm dia 15m long Reinforced Rubber lined (RRL) woven jacketed hose tested to bursting pressure 32 Kg/sqcm including gunmetal male and female instantaneous type coupling approved by fire authority, machine would with G.I wire complete in all respects. Hose shall conform to I.S 636 Type II and coupling to I.S 903-1985 with ISI certification (Two per hydrant station)	each	4			
361	4	Providing and fixing of size 900mm wide x 1800 height indoor house cabinet shutter suitable for accomodating hydrant made of tebular rectangular pipe having central opening glazed door having necessary locking arrangement painting (one coat primer & two coats of paint) suitable for housing 2no. RRL hose pipe 1no branch pipe first aid hose reel etc. as required					
	a)	Size 1800 x 900 (HxB)	each	2			
362	5	Providing and fixing standard short size SS branch pipe with gunmetal nozzle 16mm dia outlet with standard male instantaneous spring lock type 63mm dia coupling. Branch pipe and nozzle shall confirm to IS : 903-1985.	each	2			
363	6	Providing and fixing standard fireman's axe with heavy insulated rubber handle complete.	each	2			
364	7	Providing and fixing gunmetal collecting head with 63mm dia instantaneous type inlet and 150mm dia flanged outlet with built-in check valve for fire brigade connection to DOWN COMER (I.S 904) including necessary supports complete in all respects as per standard design.					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
	a)	THREE way (DOWN COMER)	each	1			
		<b>SH 2- Hand Appliances</b>					
		Note : All the fire extinguishers shall be ISI marked and filling/validity date shall be painted.					
365	1	Providing and fixing ABC type fire extinguishers consisting of welded M.S cylindrical body, squeeze lever discharge valve fitted with pressure indicating gauge internal discharge tube, 30cms long high pressure discharge hose, discharge nozzle, suspension bracket, conforming to IS: 2878 finished externally with red enamel paint and fixed to wall with brackets complete with internal charge.					
	a)	Capacity 4.5 kg	each	4			
		<b>SH 3- FIRE PUMPS &amp; ANCILLARIES</b>					
366	1	Providing and fixing butterfly valve confirming to type P.N. 1.6 of IS 13095 1991 complete with flanges, bolts, nuts, gasket etc. as per specifications complete in all respect hydraulically tested to 20kg/sqcm.					
		100mm dia	each	1			
367	2	Providing and fixing cast iron double flanged horizontal type with gunmetal seat non-return valve confirming to class - I of IS : 5312 including nuts, bolts, 1.5 mm thick compressed asbestos gasket including painting complete					
		100 mm dia	each	1			
368	3	Providing installation testing and commissioning of brass ball valves of following sizings as required					
		25mm dia( drain)	each	1			
369	4	Providing installation testing and commissioning of air release valve as required					
		80mm	each	1			
370	5	Supply, Erection, Testing and commissioning of Single stage centrifugal end suction back pull type Terrace fire pump located at terrace level with Bronze impeller ss shaft mechanical seal coupled with squirrel cage induction motor for auto manual operation suitable for three phase 415 v 50Hz ac supply TEFC type confirming to IP:55 withflexible coupling and coupling guard with pump common bed plate fabricatrd from mild steel channel, suitablecement concrete foundation duly plastered with anti vibration pads along with suitable rating control panel as per rating of motor including 4pole MCCB automatic star delta starter single phase preventer over load protection relay contactor MCB's inter locking wiring ferruling etc. complete in all respect.					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
		450 LPM 10 M HEAD	No job	1			
371	6	Star Delta starter switch panel at ground floor level for operation of the pump set including connections at main panel on terrace and push button switch at ground floor level with audio visual indication for pump on facility complete as required.	No job	1			
		<b>SH 4- CABLES</b>					
372	1	Providing, laying, testing and commissioning of PVC insulated, copper conductor, 1100 V grade, armoured cable between metering panel at ground floor and pump set electric panel at terrace level and push button switch at ground floor level including PVC pipe, suitable clamps etc. where required and connections at panel and push button switch complete as required.					
		6 Sq.mm x 4 core PVC insulated copper conductor cable armoured + 2nos. 8 SWG GI wire.	metre	20			
373		2.5 Sq.mm x 3 core PVC insulated copper conductor, armoured control cable.	metre	20			
		<b>SUB-TOTAL OF FIRE PROTECTION WORKS- I</b>					

SL. No.	DSR 2016	DESCRIPTION OF ITEM OF WORK	Unit	Qty	RATE IN FIGURES	Rate IN WORDS	Amount in (Rs.)
		<b>SUMMARY OF ALL WORKS</b>					
		Description	Unit				
374	<b>A</b>	<b>Civil works</b>	Rs				
375	<b>B</b>	<b>Plumbing works</b>	Rs				
376	<b>C</b>	<b>Boundary Wall</b>	Rs				
377	<b>D</b>	<b>Internal Road and Pathways</b>	Rs				
378	<b>E</b>	<b>Under Ground Tank</b>	Rs				
379	<b>F</b>	<b>Guard Room</b>	Rs				
380	<b>G</b>	<b>Rain Water Harvesting Pit</b>	Rs				
381	<b>H</b>	<b>Electrical Works</b>	Rs				
382	<b>I</b>	<b>Fire supression works</b>	Rs				
383		<b>GRAND TOTAL OF ALL WORKS</b>	Rs				