

Dedicated Freight Corridor Corporation of India Ltd.							
Name of Work - Construction of Running Rooms at JNPT & NEW KHARBAO stations of DFCCIL in the state of Maharashtra							
PART-A- CIVIL							
ABSTRACT SHEET							
SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
				Schedule-A- CPWD DSR Items			
				CPWD DSR-2018			
				SUB HEAD : 1.0 - CARRIAGE OF MATERIALS			
1	011010	1.1.18	1320.00	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge	318.75	CuM	420750.00
				SUB HEAD : 2.0 - EARTH WORK			
2	021010	2.8	2342.00	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.	252.30	CuM	590886.60
		2.8.1		All kinds of soil.			
3	022010	2.9	1938.00	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m 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 soils as directed, within a lead of 50 m.	448.15	CuM	868514.70
		2.9.1		Ordinary rock			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
4	023011	2.10	200.00	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 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :	364.20	metre	72840.00
		2.10.1		Ordinary rock			
		2.10.1.2		Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia			
5	024010	2.25	2916.00	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	219.65	CuM	640499.40
6	025010	2.34	520.00	Supplying chemical emulsion in sealed containers including delivery as specified.	200.85	litre	104442.00
		2.34.1		Chlorpyriphos/ Lindane emulsifiable concentrate of 20%			
7	026011	2.35	232.00	Diluting and injecting chemical emulsion for POST-CONSTRUCTION anti-termite treatment (excluding the cost of chemical emulsion) :	39.45	metre	9152.40
		2.35.2		Chlorpyriphos/ Lindane emulsifiable concentrate of 20%			
		2.35.2.1		With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration			
8	026021	2.35.3	1000.00	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:	227.05	sqm	227050.00
		2.35.3.1		With Chlorpyriphos/Lindane E.C. 20% with 1% concentration			
				SUB HEAD : 3.0 - MORTAR			
				SUB HEAD : 4.0 - CONCRETE WORK			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
				CEMENT CONCRETE (CAST IN SITU)			
9	041010	4.3	356.00	Centering and shuttering including strutting, propping etc. and removal of form work for :	609.30	sqm	216910.80
		4.3.2		Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.			
10	042010	4.4	2.00	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing	7210.55	CuM	14421.10
		4.4.1		1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)			
				DAMP-PROOF COURSE			
11	043010	4.11	122.00	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 20mm nominal size)	418.90	sqm	51105.80
12	044010	4.13	122.00	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with apiece of cloth lightly soaked in kerosene oil.	110.00	sqm	13420.00
13	045011	4.20	272.00	Providing and laying in position ready mixed plain cement concrete, with 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 plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, 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 Engineerin-charge	7900.75	CuM	2149004.00
		4.20.1		All works upto plinth level :			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
		4.20.1.1		M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)			
				SUB HEAD : 5.0 - REINFORCED CEMENT CONCRETE			
				FORM WORK			
14	051010	5.9	441.00	Centering and shuttering including strutting, propping etc. and removal of form for :	284.85	sqm	125618.85
		5.9.1		Foundations, footings, bases of columns, etc. for mass concrete			
15	051020	5.9.2	1970.00	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	609.30	sqm	1200321.00
16	051030	5.9.3	2440.00	Suspended floors, roofs, landings, balconies and access platform	693.05	sqm	1691042.00
17	051040	5.9.5	4390.00	Lintels, beams, plinth beams, girders, bressumers and cantilevers	552.05	sqm	2423499.50
18	051050	5.9.6	1633.00	Columns, Pillars, Piers, Abutments, Posts and Struts	733.70	sqm	1198132.10
19	051060	5.9.7	276.00	Stairs, (excluding landings) except spiral-staircases	622.35	sqm	171768.60
20	051071	5.9.16	154.00	Edges of slabs and breaks in floors and walls	173.25	metre	26680.50
		5.9.16.1		Under 20 cm wide			
21	051080	5.9.19	1182.00	Weather shade, Chajjas, corbels etc., including edges	766.75	sqm	906298.50
22	052010	5.11	3068.00	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).	287.50	sqm	882050.00
		5.11.1		Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)			
23	053010	5.22	65769.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.	83.50	kg	5491711.50
		5.22.6		Thermo-Mechanically Treated bars of grade Fe-500D or more.			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
24	054010	5.22A	170210.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.	83.50	kg	14212535.00
		5.22A.6		Thermo-Mechanically Treated bars of grade Fe-500D or more.			
25	055010	5.30	948.00	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	58.90	metre	55837.20
				DESIGN MIX CONCRETE			
26	056010	5.34	2189.00	Extra for providing richer mixes at all floor levels.	69.75	CuM	152682.75
				Note:- Excess/less cement over the specified cement content used is payable /recoverable separately.			
		5.34.1		Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)			
27	057010	5.37	821.00	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, 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. (Note :- Cement content considered in this item is @ 330 kg/ cum.Excess/less cement used as per design mix is payable/recoverable separately).	8398.65	CuM	6895291.65
		5.37.1		All works upto plinth level			
28	057020	5.37.2	1368.00	All works above plinth level upto floor V level	9802.20	CuM	13409409.60

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
29	058010	5.18	70.00	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.	1474.05	sqm	103183.50
		5.18.1		50 mm thick			
				SUB HEAD : 6.0 - MASONRY WORK			
30	061010	6.38	30.00	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	8227.35	CuM	246820.50
31	062010	6.47	1126.00	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately)	6636.95	CuM	7473205.70
				SUB HEAD : 7.0 - STONE WORK			
				SUB HEAD : 8.0 - CLADDING WORK			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
32	081011	8.2	756.00	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	4007.65	sqm	3029783.40
		8.2.2		Granite of any colour and shade			
		8.2.2.2		Area of slab over 0.50 sqm			
33	082010	8.5	48.00	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete	734.55	each	35258.40
34	083010	8.7	100.00	Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand),including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).	612.60	kg	61260.00
		8.7.2		Stainless steel cramps			
35	084010	8.10	18.00	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.	3216.90	sqm	57904.20
		8.10.2		Granite Stone of approved shade			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
36	085010	8.11	186.00	Providing and fixing machine cut, mirror/eggshell polished , Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge	8823.75	sqm	1641217.50
		8.11.1		18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.			
37	086010	8.31	1130.00	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	1030.30	sqm	1164239.00
				SUB HEAD : 9.0 - WOOD AND P.V.C. WORK			
38	091010	9.1	2.00	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).	130183.05	CuM	260366.10
		9.1.1		Second class teak wood.			
39	092010	9.14	284.00	Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).	126.50	sqm	35926.00

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
40	093010	9.53	708.00	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	179.20	each	126873.60
41	094010	9.63	176.00	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :	74.15	each	13050.40
		9.63.1		250x10 mm			
42	095010	9.64	58.00	Providing and fixing ISI marked 85x42 mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.	104.70	each	6072.60
43	096010	9.65	98.00	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete :	81.75	each	8011.50
		9.65.1		300x20x6 mm			
44	097010	9.66	254.00	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :	34.85	each	8851.90
		9.66.1		125 mm			
45	098010	9.74		Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete:			
		9.74.1	4.00	250 x 10 mm	373.65	each	1494.60
46	099010	9.76	2.00	Providing and fixing bright finished brass door 100mm mortice latch and lock with 6 levers and pair of lever handles of approved quality with necessary screws etc. complete.	712.75	each	1425.50
		9.81		Providing and fixing bright finished brass handles with screws etc. complete:			
47	271010	9.81.1	4.00	125 mm	204.65	each	818.60
48	272010	9.82	236.00	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	106.70	each	25181.20

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
49	273010	9.135	70.00	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.	1001.50	sqm	70105.00
		9.135.2		With 12 mm mild steel U beading			
				SUB HEAD : 10.0 - STEEL WORK			
50	101010	10.2	8162.00	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	101.75	kg	830483.50
51	102010	10.3	10.00	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	8670.50	sqm	86705.00
52	103010	10.17	24.00	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	171.15	each	4107.60
53	104010	10.18	24.00	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	172.25	each	4134.00

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
54	105010	10.28	2898.00	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	575.45	kg	1667654.10
				SUB HEAD : 11.0 - FLOORING			
55	111010	11.23	160.00	Marble stone flooring with 18 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 :	3237.80	sqm	518048.00
		11.23.1		Makrana white second quality			
56	112010	11.24	288.00	Extra for pre finished nosing to treads of steps of marble stone	530.25	metre	152712.00
57	113010	11.25	122.00	Marble stone flooring with 18 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 :	622.75	sqm	75975.50
58	114010	11.26	80.00	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) : 25 mm thick	1531.85	sqm	122548.00

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
59	115010	11.41	2482.00	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 @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	1500.55	sqm	3724365.10
		11.41.2		Size of Tile 600x600 mm			
60	117010	11.46	186.00	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 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.	1545.85	sqm	287528.10
		11.46.2		Size of Tile 600x600 mm			
61	118010	11.51	96.00	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge	5986.20	sqm	574675.20
		11.51.1		18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
62	119010	11.53	132.00	Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in-Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:	3250.35	sqm	429046.20
				SUB HEAD : 12.0 - ROOFING			
63	121010	12.41	240.00	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.	305.05	meter	73212.00
		12.41.2		110 mm diameter			
64	122011	12.42	32.00	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.	117.80	each	3769.60
		12.42.1		Coupler			
		12.42.1.2		110 mm			
65	122021	12.42.2	16.00	Single pushfit Coupler	108.45	each	1735.20
		12.42.2.2		110 mm			
66	122031	12.42.3	16.00	Single tee with door	203.30	each	3252.80
		12.42.3.2		110x110x110 mm			
67	122041	12.42.5	32.00	Bend 87.5°	129.85	each	4155.20
		12.42.5.2		110 mm bend			
68	122051	12.42.6	16.00	Shoe (Plain)	113.80	each	1820.80
		12.42.6.2		110 mm Shoe			
69	123010	12.44	16.00	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	47.25	each	756.00

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
70	124010	12.45	488.00	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre,	1286.20	sqm	627665.60
		12.45.3		12.5 mm thick tapered edge gypsum moisture resistant board			
71	125010	12.47	86.00	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.	1095.20	sqm	94187.20
		12.47.1		2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
72	126010	12.55	624.00	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.	1374.10	sqm	857438.40
				SUB HEAD : 13.0 - FINISHING			
				CEMENT PLASTER (IN FINE SAND)			
73	131010	13.2	1398.00	15 mm cement plaster on the rough side of single or half brick wall of mix :	307.90	sqm	430444.20
		13.2.1		1:4 (1 cement: 4 fine sand)			
				CEMENT PLASTER (IN COARSE SAND)			
74	132010	13.4	12031.00	12 mm cement plaster of mix :	276.15	sqm	3322360.65
		13.4.1		1:4 (1 cement: 4 coarse sand)			
75	133010	13.21	1825.00	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	59.75	per bag of 50kg cement used in the mix	109043.75
				INTERIOR FINISHING			
76	134010	13.43	12409.00	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :	60.00	sqm	744540.00
		13.43.1		Water thinnable cement primer			
				EXTERIOR FINISHING			
77	135010	13.45	6156.00	Finishing walls with textured exterior paint of required shade :	232.00	sqm	1428192.00
		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			
78	136010	13.62	378.00	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :	177.15	sqm	66962.70

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
		13.62.1		Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture			
79	137010	13.83	12220.00	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.	113.90	sqm	1391858.00
		13.83.2		two coats			
80	138010	13.72	6156.00	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in-charge (payment for providing grooves shall be made separately).	896.75	sqm	5520393.00
81	139010	13.78	7974.00	Providing and applying 12 mm thick (average) premixed formulated one coat gypsum lightweight plaster having additives and light weight aggregates as vermiculite/ perlite respectively conforming to IS: 2547 (Part - 1 & II) 1976, applied on hacked / uneven background such as bare brick/ block/ RCC work on walls & ceiling at all floors and locations, finished in smooth line and level etc. complete.	342.85	sqm	2733885.90
82	281010	13.80	7974.00	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.	115.15	sqm	918206.10

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
83	282010	13.106	1264.00	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.	72.45	sqm	91576.80
				SUB HEAD : 14.0 - REPAIRS TO BUILDING			
84	141010	14.23	2000.00	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	169.05	kilo litre	338100.00
				SUB HEAD : 15.0 - DISMANTLING AND DEMOLISHING			
				SUB HEAD : 16.0 - ROAD WORK			
85	161010	16.70	426.00	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge	825.30	sqm	351577.80
		16.70.2		Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade			
				SUB HEAD : 17.0 - SANITARY INSTALLATIONS			
86	171010	17.1	16.00	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:	5421.50	each	86744.00
		17.1.1		White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests			
87	172010	17.2	18.00	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :	5260.95	each	94697.10

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
		17.2.1		W.C. pan with ISI marked white solid plastic seat and lid			
88	173010	17.5	28.00	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :	9360.60	each	262096.80
		17.5.1		Single half stall urinal with 5 litre P.V.C. automatic flushing cistern			
89	174010	17.7	44.00	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:	2196.05	each	96626.20
		17.7.7		White Vitreous China Flat back wash basin size 450x300 mm with single 15mm C.P. brass pillar tap			
90	175011	17.10	4.00	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :	2828.75	each	11315.00
		17.10.2		Kitchen sink without drain board			
		17.10.2.2		610x460 mm bowl depth 200 mm			
91	176010	17.16A	18.00	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	297.55	each	5355.90
92	177010	17.22A	44.00	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	883.05	each	38854.20

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
93	178010	17.22B	22.00	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge. (a) 15 mm nominal dia	6113.60	each	134499.20
94	179011	17.28	48.00	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.	101.10	each	4852.80
		17.28.2		Flexible pipe			
		17.28.2.1		32 mm dia			
95	291010	17.32	20.00	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :	1786.55	each	35731.00
		17.32.4		Rectangular shape 1500x450 mm			
96	292010	17.33	40.00	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	841.80	each	33672.00
				CPWD-2018, Page no:304			
97	293010	17.34	34.00	Providing and fixing toilet paper holder :	583.75	each	19847.50
		17.34.1		C.P. brass			
98	294010	17.71	30.00	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	158.55	each	4756.50
99	295010	17.73	30.00	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.	595.50	each	17865.00
		17.73.2		600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.			
SUB HEAD : 18.0 - WATER SUPPLY							

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
100	181010	18.7	40.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.	241.55	metre	9662.00
				Internal work - Exposed on wall			
		18.7.1		15 mm nominal outer dia Pipes			
101	181020	18.7.2	40.00	20 mm nominal outer dia Pipes	306.95	metre	12278.00
102	181030	18.7.3	64.00	25 mm nominal outer dia Pipes	369.20	metre	23628.80
103	181040	18.7.4	100.00	32 mm nominal outer dia Pipes	480.55	metre	48055.00
104	181050	18.7.5	64.00	40 mm nominal outer dia Pipes	648.60	metre	41510.40
105	181060	18.7.6	216.00	50 mm nominal outer dia Pipes	903.50	metre	195156.00
106	182010	18.8	360.00	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.	409.65	metre	147474.00
		18.8.1		15 mm nominal outer dia Pipes			
107	182020	18.8.2	120.00	20 mm nominal outer dia Pipes	478.15	metre	57378.00
108	182030	18.8.3	100.00	25 mm nominal outer dia Pipes	561.95	metre	56195.00
109	182040	18.8.4	160.00	32 mm nominal outer dia Pipes	679.15	metre	108664.00

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
110	183010	18.9	120.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work	202.85	metre	24342.00
		18.9.1		15 mm nominal outer dia Pipes			
111	183020	18.9.2	80.00	20 mm nominal outer dia Pipes	253.70	metre	20296.00
112	183030	18.9.3	70.00	25 mm nominal outer dia Pipes	326.65	metre	22865.50
113	183040	18.9.4	100.00	32 mm nominal outer dia Pipes	413.70	metre	41370.00
114	183050	18.9.5	110.00	40 mm nominal outer dia Pipes	536.75	metre	59042.50
115	183060	18.9.6	220.00	50 mm nominal outer dia Pipes	791.65	metre	174163.00
116	183070	18.9.7	50.00	62.50 mm nominal outer dia Pipes	1552.30	metre	77615.00
117	183080	18.9.8	180.00	75 mm nominal outer dia Pipes	1965.85	metre	353853.00
118	183090	18.9.9	340.00	100 mm nominal outer dia Pipes	2779.55	metre	945047.00
119	183100	18.9.10	230.00	150 mm nominal outer dia Pipes	5821.85	metre	1339025.50
120	184010	18.32	20.00	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :	1582.45	each	31649.00
		18.32.1		With common burnt clay F.P.S.(non modular) bricks of class designation 7.5			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
121	185010	18.48A	24000.00	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately.	8.80	per litre	211200.00
122	186010	18.49	40.00	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	418.95	each	16758.00
		18.49.1		15 mm nominal bore			
123	187010	18.51	52.00	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.	552.35	each	28722.20
		18.51.1		15 mm nominal bore			
124	188010	18.52	30.00	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	606.25	each	18187.50
		18.52.1		15 mm nominal bore			
125	189010	18.53	60.00	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931	532.00	each	31920.00
		18.53.1		15 mm nominal bore			
126	301010	18.53A	60.00	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	61.25	each	3675.00
127	302010	18.59	4.00	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :	5157.00	each	20628.00
		18.59.1		50 mm dia			
128	303010	18.60	2.00	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) :	5291.70	each	10583.40

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
		18.60.2		100 mm dia nominal bore			
129	304010	18.76	60.00	Cutting holes up to 30x30 cm in walls including making good the same:	327.25	each	19635.00
		18.76.1		With common burnt clay F.P.S. (non modular) bricks			
130	305010	18.77	30.00	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	344.60	each	10338.00
131	306010	18.78	80.00	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	154.15	each	12332.00
				SUB HEAD : 19.0 - DRAINAGE			
132	191011	19.4	18.00	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 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:	2409.60	each	43372.80
		19.4.3		180x150 mm size P type			
		19.4.3.1		With common burnt clay F.P.S. (non modular) bricks of class designation 7.5			
133	192010	19.6	300.00	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :	754.45	metre	226335.00
		19.6.3		250 mm dia. R.C.C. pipe			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
134	193011	19.7	20.00	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :	28632.25	each	572645.00
		19.7.3		Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :			
		19.7.3.1		With common burnt clay F.P.S. (non modular) bricks of class designation 7.5			
135	194011	19.8	10.00	Extra for depth for manholes :	8994.60	metre	89946.00
		19.8.2		Size 120x90 cm			
		19.8.2.1		With common burnt clay F.P.S. (non modular) bricks of class designation 7.5			
136	195010	19.20	20.00	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	667.80	each	13356.00
137	196010	19.32	2.00	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.	25278.75	each	50557.50
		19.32.1		With common burnt clay F.P.S. (non modular) bricks of class designation 7.5			
138	197010	19.34	4.00	Providing and fixing S.W. intercepting trap in manholes with stiffmixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	494.75	each	1979.00

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
		19.34.2		150 mm dia			
				SUB HEAD : 20.0 -PILE WORK			
				SUB HEAD : 21.0 - ALUMINIUM WORK			
139	211010	21.18	16.00	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).	4447.90	sqm	71166.40
				SUB HEAD : 22.0 - WATERPROOFING WORK			
140	221010	22.5	352.00	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :	465.60	sqm	163891.20
				(a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours.			
				(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.			
				(The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.)			
141	222010	22.7	784.00	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:	1398.50	sqm	1096424.00

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
				(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.			
				(b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.			
				(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge.			
				(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.			
				(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :			
		22.7.1		With average thickness of 120 mm and minimum thickness at khurra as 65 mm.			

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
				SUB HEAD : 23.0 - RAIN WATER HARVESTING & TUBEWELLS			
				SUB HEAD : 24.0 - CONSERVATION OF HERITAGE BUILDINGS			
				SUB HEAD : 25.0 - STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL			
				SUB HEAD : 26.0 - NEW TECHNOLOGIES AND MATERIALS			
142	261010	26.72	216.00	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-incharge.	748.60	sqm	161697.60
				Schedule B- Maharashtra SSR Items			
				Maharashtra STATE SCHEDULE OF RATES-2019-20			
143	011010	21.38	404.00	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15cm to 20 cm thick including hand packing and compacting etc. complete	1176.00	CuM	475104.00
144	011020	21.40	132.00	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	1181.60	CuM	155971.20
145	011030	21.30	2949.35	Providing general pest control services to the building to control the nuisance of cockroaches, lizards, pin bores and other insects etc. with 4 operations in a year and monthly check up.	22.40	sqm	66065.44

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
146	012010	26.36	236.00	Providing and applying Anticorrosive treatment to reinforcement as per cement polymer composite coating (C.P.C.C.) method developed by C.E.C.R.I. including cleaning the bar by means of any established mechanical or manual method for removing rust and deleterious material, applying rapid setting primer and cement polymer sealing coat of approved and licensed by CECRI including redoing the process if damage occurs during handling, stacking etc. complete. (With prior approval of SE)	10186.40	Metric Tonne	2403990.40
147	013010	33.67	320.00	Providing and laying Antiskid Ceramic tiles of approved quality of size 30cmx30cm and confirming to IS15622-2006 (Group-BIIA) for anti skid flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with cement slurry cleaning curing etc. complete.	1198.40	sqm	383488.00
148	014010	39.39	34.00	Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass	6031.20	sqm	205060.80

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
149	014020	39.43	112.00	Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts	5554.08	sqm	622056.96
150	014040	39.68	48.00	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complete.	2990.40	sqm	143539.20

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
151	014050	39.45	339.12	a) Supplying and fixing in position ----- --- Aluminium four track sliding windows with outer frame made from section of over all size 122 mm x 45 mm, bottom section with drain section track weighing 1.83 kg per metre and top and side section of size 122x 31.75 mm weighing 1.15 kg per running metre with shutter sections made of 18 mm x 40 mm size having average weight of 0.6 kg per running metre (or as required size) with change in proportionate weight, with 6 mm float glass in three equal panels and alluminium coated stainless steel mosquito net in one (2/3 of opening) panel fixed with new neoprene gasket, shutters to be provided with nylon encased stainless steel rollers, necessary locks and handles complete.	6720.00	sqm	2278886.40
				b) Powder Coated			
152	015010	40.01	74.00	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.	1711.36	sqm	126640.64
153	016010	43.18	116.00	Providing and fixing 15 cm rigid PVC Nahani trap including PVC grating, bend, connecting piece of UPVC pipe upto the outside face of wall, making the good damaged surface and testing etc. complete (Prior approval of sample and brand by Ex. Engr. is necessary before use)	511.84	Number	59373.44

SR. NO.	Item Code	ITEM NO	TOTAL QUANTITY	ITEM OF WORK	RATE	UNIT	AMOUNT
154	017010	101.55	420.00	Providing & fixing EKO TIMBER or equivalent factory made single extruded WPC/ PVC (Wood Plastic Composite) solid plain flush door shutter of 30mm thick size comprising of virgin polymer of K value 50-60 (suspension grade), calcium carbonate and natural fibers (Wood powder only) and non toxic additives having minimum density of 550/kg cum to 650/kg cum and screw withdrawl strength 1800 N (face) and 900 N (Edge) minimum compressive strength 50 N / sq.mm. and resistant to spread of flame of class A category with property of being termite/ borer proof/ water/ moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk, s.s. screws, all inclusive as per direction of Engineers- in-charge etc. eomplete (with prior approval of concerned Superintending Engineer)	5059.04	sqm	2124796.80
Schedule-C							
MARKET RATES ITEMS							
155	011010		2.00	DFCCIL name board	85000.00	Nos	170000.00
				a) Running Room (Steel Letter)			
				Length- 4.45 Mtr. X Height- 0.40 Mtr.			
				b) DFCCIL Logo (Glow Letter)			
				Length- 1.20 Mtr. X Height- 1.20 Mtr.			
156	021010		240.00	Providing, fabricating and installation of structural glazing in aluminium section of 100 x 50 hollow section with 5mm one way reflective glass fixed over aluminium section with help of approved silicon sealent as per architect instruction & design etc. complete as per the specifications	7850.00	sqm	1884000.00
157	031010		178.00	Textured (graniza) paint make-asian paint or equivalent	2540.00	sqm	452120.00