

COMBINED BILL OF QUANTITIES

Consolidated across 15 Aspirational Toilet sites — grouped by Civil / Electrical / Sewer

Sr No	Item No	Description	Unit	Combined Qty	Rate (Rs.)	Combined Amount (Rs.)
CIVIL WORK						
1	R3-CS-EW-1	Excavation for foundations, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in all types of soils, vegetable earth, soft murum, running sand, shingle, turf clay, loam, peat, ash, shale, slag, chalk, garbage, muddy/ marshy/ slushy soil, marine clay, reclaimed land etc. for depths/lifts upto 1.5M measured from the ground level, including dressing/ trimming the sides, leveling and ramming of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less than 97% Modified Proctor density conforming to relevant IS, stacking the selected material in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer-in-Charge. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes applicable if any. 3) For the depth beyond 1.5 meter, the excavated quantity shall be worked out with the base rate (here Rs. 220 per Cu.M.) plus the rate of respective slab of the lift. For more details refer General Notes.	Cu.m.	2,824.69	387	1,093,156.00
2	R3-CS-EW-2-a	Extra over above item CS-EW-1 for lift from 1.5m to 3.0m.	Cum	2,477.09	91	225,416.00
3	R3-CS-AT-1	Providing Pre-constructional anti -termite treatment conforming to IS-6313(partII) using chloropyrifos EC20 Emulsion or equivalent of 1 % concentration by weight for creating barrier under and all around foundation pits, wall trenches, basement excavation, backfilling immediate contact with foundation and treating the top surface of plinth filling, junction of wall & floor, along the external perimeter of building, expansion joints, surrounding of pipes, water conduits and at places suggested and as directed by Engineer In-Charge covering 10 years guaranty.(plinth area should be considered for measurement and payment.)	Sq.m.	1,011.22	187	189,098.00
4	R3-CS-EW-26	Providing & Laying dry stone Rubble Soling with average 230 mm size hard stone set in regular lines, handpacked and interstices thoroughly filled with small chips including filling in with good quality murum brought from outside, compacting with iron rammers, watering, sand spreading 12mm thk. layer of grit on top etc complete as directed by Engineer In Charge. (Note: The rate includes the royalty and other taxes if any)	Cu.m.	506.03	2,434	1,231,686.00

5	R3-CS-CW-3-a-2	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum as per IS 456 table showing minimum cement content).	Cu.m.	258.53	6,002	1,551,696.00
6	R3-CS-CW-7-a	Providing and laying in position mixer mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying and the cost of centering, shuttering, finishing and excluding 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. The Mix design as per particular specifications shall be got approved by Engineer-in-Charge before execution of the item. The rate shall include cost of all specified materials and operations at all levels and heights, including the cost of centering, shuttering and and excluding reinforcement which shall be paid under relevant item. (Note :- Cement content considered in this item is @ 300 kg/cum as per IS 456 table showing minimum cement content. No extra will be paid nor any amount will recovered on account of variation of cement in mix design as per specifications for controlled concrete). Raft Foundations, bases of columns	Cu.m.	373.03	7,056	2,632,133.00
7	R3-CS-CW-7-b	Providing and laying in position mixer mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying and the cost of centering, shuttering, finishing and excluding 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. The Mix design as per particular specifications shall be got approved by Engineer-in-Charge before execution of the item. The rate shall include cost of all specified materials and operations at all levels and heights, including the cost of centering, shuttering and and excluding reinforcement which shall be paid under relevant item. (Note :- Cement content considered in this item is @ 300 kg/cum as per IS 456 table showing minimum cement content. No extra will be paid nor any amount will recovered on account of variation of cement in mix design as per specifications for controlled concrete). Walls (any thickness) including attached butteresses, retaining wall, shear wall, diaphragm wall, trench, pit walls, etc	Cu.m.	157.64	10,793	1,701,368.00

8	R3-CS-CW-7-c	Providing and laying in position mixer mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying and the cost of centering, shuttering, finishing and excluding 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. The Mix design as per particular specifications shall be got approved by Engineer-in-Charge before execution of the item. The rate shall include cost of all specified materials and operations at all levels and heights, including the cost of centering, shuttering and and excluding reinforcement which shall be paid under relevant item. (Note :- Cement content considered in this item is @ 300 kg/cum as per IS 456 table showing minimum cement content. No extra will be paid nor any amount will recovered on account of variation of cement in mix design as per specifications for controlled concrete). Water tank walls	Cu.m.	339.95	12,270	4,171,231.00
9	R3-CS-CW-7-d	Providing and laying in position mixer mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying and the cost of centering, shuttering, finishing and excluding 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. The Mix design as per particular specifications shall be got approved by Engineer-in-Charge before execution of the item. The rate shall include cost of all specified materials and operations at all levels and heights, including the cost of centering, shuttering and and excluding reinforcement which shall be paid under relevant item. (Note :- Cement content considered in this item is @ 300 kg/cum as per IS 456 table showing minimum cement content. No extra will be paid nor any amount will recovered on account of variation of cement in mix design as per specifications for controlled concrete). Lintels, beams, plinth beams, girders, floor beam, coping.	Cu.m.	283.95	9,506	2,699,201.00
10	R3-CS-CW-7-e	Providing and laying in position mixer mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying and the cost of centering, shuttering, finishing and excluding 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. The Mix design as per particular specifications shall be got approved by Engineer-in-Charge before execution of the item. The rate shall include cost of all specified materials and operations at all levels and heights, including the cost of centering, shuttering and and excluding reinforcement which shall be paid under relevant item. (Note :- Cement content considered in this item is @ 300 kg/cum as per IS 456 table showing minimum cement content. No extra will be paid nor any amount will recovered on account of variation of cement in mix design as per specifications for controlled concrete). Columns, Pillars, Piers, Posts and Struts.	Cu.m.	275.56	11,568	3,187,683.00

11	R3-CS-CW-17	Extra and over for providing richer RMC of M-30 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 340 kg/cum as per IS 456 table showing minimum cement content.)	Cum	1,264.51	780	986,322.00
12	R3-CS-CW-35-c	Providing and fixing in position steel bars reinforcement of various diameters for R.C.C. pile, pile caps, footings,raft,retaining wall,shear wall, lift wall,foundations, slabs, beams, columns, canopies,staircases, newels, chajjas, lintels, pardies,coping, fins, arches, etc. as per detailed designs,drawings and bar bending schedules,including straightening, cutting, bending, hooking the bars, binding with wires or tack welding, supporting as required etc. all complete at all levels. Thermo-Mechanically Treated steel bars. (Fe 500 D)	M.T.	150.43	80,080	12,046,811.00
13	R3-CS-MW-3-b	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in :Cement mortar 1:4 (1 cement : 4 coarse sand)	Cu.m.	440.85	10,698	4,716,231.00
14	R3-CS-MW-11-b	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 and above in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	2,122.22	1,178	2,499,974.00
15	R3-CS-CW-1-a	Providing and laying in position plain cement concrete of specified grade cement with trap/granite/quartzite/gneiss metal mixing in concrete mixer including bailing out water, compacting, finishing surface, curing and including the cost of centering and shuttering at all level (Nominal Mix of 1:1.5:3 (1 cement OPC: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	11.05	7,467	82,494.00
16	R3-CS-WP-24	Do with broken China mosaic flooring instead of IPS set in cement mortar (1:4) 40 mm thick	Sqmt	722.42	1,418	1,024,390.00
17	R3-CS-WP-49	Providing & Making Waterproofing Treatment to the Chajja by finishing top surface with 20 mm thick 12 C.M. plaster with addition of approved water proofing compound as per manufacturers specifications and neat cement finish,including drip moulding at edge ,at bottom of chajja & cement vatta above chajja along the junction with wall etc complete. as per FMB item No. 5.22 but for new surfaces& as directed by the Engineer-In-Charge.	Sqmt	289.22	496	143,456.00
18	R3-CS-WP-2	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge : -Using rough Kota stone of size 550 mm x 850 mm	Sq.m.	680.32	1,893	1,287,846.00

19	R3-CS-WP-22	Providing and filling AAC bats (of size 40-60 mm) with cement mortar mixed in the ratio 1:3:6 (1 cement : 3 coarse sand : 6 block bats) including mixing of approved water proofing compound in recommended proportion for W.C., bath and kitchen. The laid brick bat mix shall be well rammed and compacted as required. Further surfaces shall be screeded with cement concrete mix 1:1.5:3 (1cement : 1.5 coarse sand : 3 stone grit of size 6 mm and below by volume) admixed with approved integral water proofing compound in recommended proportion, laid to an average thickness of 25mm and finished smooth or ready to receive finish material as specified. Care shall be taken prior to filling all pipes passing through sunk portion such that the pipes are pressure tested by maintaining pressure for 24 hours and junctions of pipes passing through walls, slabs are well grouted and sealed. This shall be tested by ponding water for required depth and maintaining for 7 days.(Rate includes cost of brick bats, cement mortar, top screed, labour charges for working at all levels, leads and heights). For payment the area of sunken slab and the depth of filling including the thickness of screed shall be measured.	Cum	528.35	16,963	8,962,403.00
20	R3-CS-FL-8-c	Providing and laying 600 x 600 x 8 mm thk. vitrified tiles as specified below conforming to I.S.15622-2006 with water absorbtion less than 0.08% for flooring of an approved, quality, make and pattern/design for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge. (Light coloured antiskid / matt vitrified tiles)	Sq.m.	486.46	1,529	743,798.00
21	R3-CS-PL-05	Providing and applying 12 mm thick internal plaster in cement mortar 1:3 with neeru finish at all heights and locations in one coat for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc. complete.	Sq.m	1,041.94	427	444,907.00
22	R3-CS-PL-15-b	Providing and applying 20 mm thick external sand faced cement plaster upto 10m from ground level and at all locations in cement mortar proportion specified below in two coats for masonry (except stone masonry) and concrete surfaces including providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding, etc complete as directed By Engineer In Charge.(In cement mortar 1:4)	Sq.m	2,852.55	520	1,483,328.00

23	R3-CS-AW-21	Design,Fabrication & Installation of 4 mm thick exterior grade PVDF coated aluminium composite panels of ALUCOBOND having 0.5 mm thick aluminium PVDF coated sheet available in standard colours + 3 mm core material + 0.5 mm aluminium sheet chemically treated (back sheet) bent as per requirement, fitted on anodised aluminium necessary coated rectangular grid work, hardware, fixtures,brackets, anchor, fasteners of S.S.304 grade etc. complete duly sealed with weathering silicon manufactured by DOW corning / G.E. silicon for circular columns and curved beams etc complete. All section for supporting ACP shall be of size 50 x 50 x 2.5 mm at a distance of 1.2 m Horizontally & Vertically or as per requirement of the design shop drawing has to be submitted by the contractor for the approval of structural Engineer. a) For Terrace b) For Entrance Canopy REBATE FOR SIZES Size :39"-Bruhan mumbai Mahanagarpalika shri Harilal bhagwati sarvsadharan Rugnalay (For 11" = 505.94*11"/25" = Rs. 222.17 per Inch. Size :46"-MCGM SHRI HARILAL BHAGWATI GENERAL HOSPITAL (For 4" = 505.94*4"/25" = Rs. 80.95 per Inch	Sq.m	1,388.31	3,999	5,551,854.00
24	R3-CS-PL-02	Providing and applying 6 mm thick internal ceiling plaster in cement mortar 1:3 with neeru finish at all heights and locations in single coat for concrete surfaces including scaffolding, hacking of concrete surface, watering, finishing, curing etc. complete.	Sq.m	976.26	382	372,931.00
25	R3-CS-PN-12-a	Providing and applying first single coat of approved primer and two coats of anti-algal, anti-fungal, exterior paint as specified below of an approved make and colour as per manufacturers specifications to any surface, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge. (By using acrylic based exterior paint)	Sq.m	1,464.24	212	310,420.00
26	R3-CS-PN-5	Providing and applying first single coat of approved primer and two coats of acrylic plastic emulsion paint of an approved make and colour as per manufacturers specifications to any surface, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer in-charge.	Sq.m	2,018.19	147	296,675.00
27	R3-CS-FL-78	Providing and laying 20-25mm average thick granite stone laid with knife edge joints over c.m. bedding of 1:6, for flooring / skirting / dado, with cement float and grout of same colour of the stone. The granite flooring shall be mirror polished. Basic rate to be considered @ Rs.3300/- per sq.m.for cut size	Sq.m.	690.12	5,257	3,627,974.00
28	R3-CS-FL-44-d	Providing and fixing all sides polished natural stone as specified below of approved quality, pattern, colour and thickness for door and window frames / architraves including preparing the surface and levelling in the desired line, machine cutting, jointing in approved adhesives, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with pigment mixed with cement, cleaning, finishing, curing etc complete as directed by Engineer In Charge.	Rmt	6,151.16	734	4,514,950.00
29	R3-CS-FL-59	2 to 3mm wide and 3mm deep grooving on the stone work specified below as directed	Rmt	886.53	61	54,079.00

30	R3-CS-FL-61	Providing and making wash basin counter in single piece of 18 mm to 20 mm thk. telephone black granite 600mm wide, fixed over 25 to 40 mm thk black Kadappa, sandwich type construction, by making zari, in walls upto 75 mm deep & fitting the wash basin by using M.S. bracket & filling the wall surface by C.M 1:3 etc.(M.S. bracket and wash basin will be paid seperately)	Sqmt	176.73	3,779	667,863.00
31	R3-CS-FL-62	Providing and fixing 8mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 with water absorbtion less than 0.08% and of approved quality, pattern and colour for dado in the wet area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3 with approved waterproofing compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge. Light coloured glazed vitrified tiles/ Dark coloured glazed vitrified tiles/ Light coloured antiskid /matt vitrified tiles/ Dark coloured antiskid / matt vitrified tiles	Sqmt	5,804.86	1,626	9,438,705.00
32	R3-CS-FL-16	Providing and laying 16-20 mm thick and 75mm wide strips of rough jet black Granite stone (or equivalent) of approved colour, on ramp to get anti-skid effect including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, curing, finishing etc. complete as directed by Engineer-incharge.	Sqmt	45.08	6,570	296,202.00
33	R3-CS-FL-43-j	Providing and fixing all sides polished natural stone tiles as specified below of approved quality, pattern, colour and thickness for partition including making the groove in existing cladding/ plaster/ concrete/ masonry, machine cutting, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with neat cement or pigment mixed with cement, cutting for utility pipe in the shape as directed, cleaning, finishing, curing etc complete as directed by Engineer In Charge. (18mm thk. Ruby red, jet black, Hasan green Granite)	Sqmt	95.40	2,543	242,603.00
34	R3-CS-WW-16-a	Providing and fixing superior quality factory made phenol bonded solid core single leaf flush commercial door shutter of thickness as mentioned below and of approved make conforming to IS: 2202 (Part I, II) with 12mm thk. teak wood lipping all around, 3mm thk. commercial veneer on external face with three coats of french polish and 150mm x 60 mm or 125 mm x 75 mm C.P. teak wood frame without fanlight including, approved fixtures and fastening hooks, eyes, screws and painting the frame and interior side with one coat of primer, putty and two coats of synthetic enamel paint of approved make and colour etc. complete as directed by Engineer in charge. (25mm thick shutter)	Sqmt	101.30	7,479	757,623.00
35	R3-CS-SL-04	Providing and fixing in position collapsible steel gates with vertical channels 20 x 10 x 2 mm & braced with flat iron diagonals 20 x 5 mm size, top & bottom T section 40 x 40 x 6 mm size, 30 mm steel pulleys complete with bolts-nuts, locking arrangements, stoppers, handles and painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint including all labour, materials, tools and equipments, etc complete as directed by Engineer Incharge.	sqm	100.23	9,250	927,082.00

36	R3-RW-10-30	P/L R.M.C. M-25 C.C. procured from B.M.C. approved R.M.C. plant including use of approved makes of plasticizer/ retarder & transported by transit mixer & placing at worksite, compacting	Cu.m.	157.98	7,007	1,106,936.00
37	R3-RW-10-57	Extra Over item of stencil concrete above M20 in footpath. Providing, applying and finishing the top surface of M-20 concrete	SQm	845.46	265	224,047.00
38	R3-CS-WW-32	Providing & fixing in position 35 mm thick 1st quality water proof Single Leaf Flush Door for w.c. with 1.5mm thick laminate on both sides with 12x35mm lipping patti on all egdes. Rate is inclusive of s.s.fixtures & fittings, such as handles on both sides, tower bolts, locking arrangement,, door stopper of make (ozone,Hettich,Hafle) 450 x 150mm aluminum ventilation grill powder coated, as per architect's detailed drg.and design complete.Size of door 950mm x 2.35mm.D6,D10,D11	Sqmt	400.37	10,847	4,342,792.00
39	R3-CS-PS-1-a	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, 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 :	Each	74.00	7,810	577,940.00
40	R3-CS-PS-2-a	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 :	Each	89.00	8,007	712,623.00
41	R3-CS-PS-7-a	WhiteVitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar taps.	Each	86.00	3,858	331,788.00
42	R3-CS-PS-77	Providing & fixing white vitreous china water less urinal of size 600 x 330 x 315 mm having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal	Each	109.00	7,763	846,167.00
43	R3-CS-PS-27-a-1	Semi rigid pipe 32 mm dia	Each	85.00	44	3,740.00
44	R3-CS-PS-27-b-1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Flexible pipe 32 mm dia	Each	85.00	96	8,160.00
45	R3-CS-PS-31-b	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 :	Each	48.00	2,148	103,104.00
46	R3-CS-PS-31-d	Rectangular shape 1500x450 mm	Each	40.00	2,770	110,800.00
47	R3-CS-PS-69	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape	Each	89.00	334	29,726.00
48	R3-CS-PS-70	PTMT Towel Ring	Each	142.00	265	37,630.00

49	R3-CS-PS-86-a	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 wall etc. (15 mm nominal outer dia Pipes)	Rmt	1,360.00	375	510,000.00
50	R3-CS-PS-86-b	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 wall etc. (20 mm nominal outer dia Pipes)	Rmt	875.00	420	367,500.00
51	R3-CS-PS-86-c	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 wall etc. (25 mm nominal outer dia Pipes)	Rmt	720.00	484	348,480.00
52	R3-CS-PS-86-d	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 wall etc. (32 mm nominal outer dia Pipes)	Rmt	580.00	591	342,780.00
53	R3-CS-PS-95-a	Providing and fixing gun metal gate valve with CI wheel of approved	Each	30.00	766	22,980.00
54	R3-CS-PS-126	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.	Lit.	180,000.00	6	1,080,000.00
55	R3-CS-PS-132-a	Providing and fixing PTMT bib cock of approved quality and colour.	Each	148.00	123	18,204.00
56	R3-CS-PS-133-a	Providing and fixing PTMT stop cock of approved quality and colour. 15 mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	223.00	301	67,123.00
57	R3-CS-PS-249	Providing and fixing heavy ISI marked single lever concealed diverter for bath & shower system Rain shower & its accessories	Each	45.00	11,014	495,630.00

58	R3-CS-PS-163-a	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : (100 MM DIA.)	Rmt	270.00	452	122,040.00
59	R3-CS-PS-163-b	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :(150 MM DIA.)	Rmt	675.00	648	437,400.00
60	R3-CS-PS-164-b	Providing and laying cement concrete 1:4:8 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :	Rmt	835.00	1,016	848,360.00
61	R3-CS-PS-166-a-2	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 :	Each	166.00	3,235	537,010.00
62	R3-CS-PS-192	Providing and fixing in position uPVC/SWR (Soil/Waste/Rain) pipe of type-B 110 mm dia. in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(All fittings and accessories like clamps,etc. should be of same brand. No separate payment shall be made for fittings and accessories).	Rmt	890.00	414	368,460.00
63	R3-CS-PS-194	Constructing brick masonry inspection chamber 90cm x 45cm x30cm in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. 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 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 haunches, 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	Each	90.00	4,342	390,780.00
64	R3-CS-PS-203	Providing and fixing CP brass two way bib cock with flange of approved quality and make.	Each	89.00	1,116	99,324.00
65	R3-CS-PS-204	Providing and fixing health faucet with one meter long easy flex tube in chrome finish and wall flange	Each	87.00	1,324	115,188.00
66	R3-CS-PS-259	Providing & Fixing 100mm diameter Nahani trap Jali in steel finish with necessary fixing required to make the item well functional.	Each	393.00	437	171,741.00

67	R3-CS-SS-01	Providing, detailing, fabricating and fixing at desired location using hot rolled sections and MS Plates of grade Fe 250 as per specifications and approved fabrication drawings (which are to be prepared by Contractor and got approved from Engineer), transporting to site and erecting structural steel members for all heights & at all levels including provision of necessary erection bolts, fixing bolts, nuts, washers, cleats, stiffeners, gussets, base plate, and all necessary fixtures and operations like preheating as per specifications, straightening, bending, cutting, drilling, grinding, machining if specified, welding, grinding and removing the welding burr and preparing surface for painting with wire brush cleaning and applying two coats of epoxy red oxide zinc phosphate primer of 30 microns each and two coats of Epoxy Corrosion Resistant Enamel paint of 30 microns after fabrication including touching up with spray painting after erection etc complete as directed by Engineer In Charge. (The qty. for this item shall be measured for gusset plates, base plates, bolts in M.T.)	MT	11.25	90,876	1,022,355.00
68	R3-CS-SS-23	Providing, detailing, and fabricating as per specifications, transporting to site and erecting ladder / railing using stainless steel hollow pipes of grade 304 including, S.S. fixtures and fastenings, cleats, stiffeners, gussets etc. and all necessary operations straightening, bending, like cutting, drilling, welding, grinding and removing the welding burr, machining if specified, finishing, cleaning etc. complete as directed by Engineer In Charge.	Kg	4,800.00	620	2,976,000.00
69	R3-CS-WW-31	Providing and fixing fire doors with 2 hour fire rating conforming to IS: 3614 (Part 2), BS 476 (Parts 20 & 22), ISO 834 ; 45 mm thick fully flush, double skin door shell with lock seam joints at stile edges made from 1.25 mm thick galvanized steel sheet including door frames made from 1.6 mm thick galvanized steel sheet formed to double rebate profile of size 143 mm x 57mm as per manufacturer's instructions, door frames and shutter primed with Zinc Phosphate stoving Primer and finished with Polyurethane Aliphatic grade or epoxy paint including ironmongery consisting of stainless steel ball bearing butt hinges 3 mm thick fixed flush to the frame and shutter, full width horizontal handles (panic bar), concealed flush bolts, door closers, other standards fixtures and fasteners, etc. complete for the following clear opening sizes:	Sqmt	99.58	23,869	2,376,756.00
70	R3-CS-SS-33	Supplying & Installing Stainless Steel Railing of Goldern Industries Pvt.Ltd.with Top rail using S.S.Pipe of Grade AISI -304 using 51 mm diapipe with wall thickness of 1:6 mm inclding fabrication ,Cleaning ,Buffing & polishing etc.complete. MidrailbyusingS.S.PipeofGrade AISI -304 with 2 Nos.S.S.pipes of 16 mm dia& 12 mm thicktoughened glass pannel including fabrication, Cleaning ,Buffing &polishing etc. complete .& The BALUSTAR is to be of satin finishstainless steel vertical post (Balustar) of AISI 304 grade of 47R4series ,etc.complete.(The height of the railing is to be 1.00 meter)	Sqmt	215.78	5,312	1,146,224.00
71	GW-3-2-F	Providing and fixing SS dust bin	Each	125.00	17,265	2,158,125.00
72	R3-CS-RM-130	Providing & fixing stainless steel 20 mm dia, 600 mm long grab bar for physicaly handicapped toilet etc complete as directed.	Each	30.00	1,094	32,820.00

73	R3-CS-WW-21-b	With India Gypsum PVC laminated 9.5 mm thk 'POLYSHIELD' tiles having metal polyester backing with Humidity Resistance of 99% RH, Average NRC 0.55, dncw 34dB, Light Reflectance >80%, Thermal Conductivity k = 0.052 – 0.057 w/m c, Colour White, Fire Performance Class 0/Class 1 (BS - 476) with life time warrantee against sag in module size 595 mm X 595 mm X 9 mm thick at required height above FFL	Sqmt	1,104.89	1,640	1,812,015.00
74	FA-MA-NHDC-21-24	GRC Grill	Sqmt	570.03	4,516	2,574,313.00
75	SBM-BS-12.15	Supply, installation, testing of universal intel atom n2800, clock frequency 1.86 GHZ public address system machine as per instruction of engineer incharge.	Each	15.00	15,745	236,175.00
76	SSP-MT-VM-01	Additional on site comprehensive maintainance of sanitary napkin incierator for 2 years 2 post warranty period inclusive of cost	Each	15.00	3,500	52,500.00
77	SSP-MT-IM-01	Additional on site comprehensive maintainance of sanitary napkin incierator for 2 yearspost warranty period inclusive of cost	Each	15.00	4,600	69,000.00
78	R3-CS-PS-250	P/F Jaquar make shower, necessary accessories shower arm with flange continental series sr. no. 483	Each	50.00	1,770	88,500.00
79	R3-CS-FUR-31	Providing and supplying low back chair having size Depth- 62cm, width-55cm, height-80cm & seat height 45 cm. (+/- 2cm), having seat & back, shall be made up of 1.2 cm hot pressed plywood, approved tapestry upto Rs.300/m and mould polyurethane foam with P.V.C. lipping all around etc. complete. The chair shall be provided with two one piece armrest made of polypropylene. The chair shall be supported by cantilever type powder coated tubular frame dia 2.54cm x 14 B G M.S.E.R.W. tube. All aluminium steel component shall have Epoxy Polyester Powder Coated. Dry film thickness shall bemore than 45 Micron. And as directed by Architect in charge. Allmetal work shall be Epoxy Polyester Powder Coated and as directed by Architect in charge	NOS	71.00	9,250	656,750.00
80	R3-CS-FUR-09-a	Providing and fixing of Modular table of required size. Table topshall be made of 25mm thick Marine ply (IS 710 : 2010) , FIRE RETARDENT laminate on all sides / surfaces. Sides in 25mm Commercial Plywood (IS 303 : 1989) . All boards components like top, sides etc. are finished with 2mm thickmachine pressed PVC edge banding in matching colour. (Rehau Make/or Equivalent) for better impact resistance. Double modesty panel height max 450mm of 18mm Marine ply (IS 710 : 2010) in approved colour and shade as per pre- approved sample. Modesty panels to be separated by min 50mm clear gap between and cut-outs etc. to make to accommodateelectrical/data switches/sockets where indicated. Cables from floor to the modesty panel should be concealed / fixed along with the table vertical supports etc. complete. Adjustable levellers to be provided tosupports. 1200 x 900 x 750	Each	15.00	14,175	212,625.00
81	R3-CS-CW-7-f	Stairs (waist slab), folded slab, inclined slab	Cu.m.	29.20	11,718	342,144.00
ELECTRICAL WORK						
82	R3-ME-1-6-a	63 Amp. 415V TPN Switchfuse unit with CRCA sheet steel powder coated enclosure with HRC fuses & switch links.	Nos	22.00	5,674	124,828.00
83	R3-ME-1-9-b	60 /63A TPN with tinned copper bars of size 20 x 3 mm.	Mtr.	67.00	4,984	333,928.00

84	R3-ME-1-10-d	1.1 kV grade 4 nos. (3P+N) copper conductor flexible cable of area 6.0 sq mm and 1no. (E) 2.5 sq. mm copper cable for 32 Amp. three phase switch.	Mtr.	1,225.00	845	1,035,125.00
85	R3-ME-2-3-i	2C x 4 Sq.mm Cu armoured FRLS cables	Mtr.	1,495.00	149	222,755.00
86	R3-ME-2-3-o	1.1 kV grade stranded Cu conductor, XLPE insulated, extruded PVC inner and FRLS outersheathed, galvanised steel round or strip armoured cables (SP-ME-TS- 6) 4C x 6 Sq.mm	Mtr	980.00	370	362,600.00
87	R3-ME-1-13-k	IP 42 Wall/column Mounted distribution board with one Nos of 32A 4P MCB and 3 Noss 32A DP MCB as outgoing (4 way TPN DB)	Nos.	15.00	9,608	144,120.00
88	R3-ME-1-25-c	40Amp. 2Pole Earth Leakage circuit Breaker with 100mA Sensitivity	No.	60.00	4,885	293,100.00
89	R3-ME-2-12-b	2C x 4 Sq.mm Copper lugs for copper cables	Set	110.00	109	11,990.00
90	R3-ME-7-4-L	Bare G.I. Conductor size 10 SWG	Mtr	1,170.00	6	7,020.00
91	R3-ME-3-17-b	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire in 20 x 12 mm (1/2") FRLSH	Mtr.	1,760.00	179	315,040.00
92	R3-ME-3-49-a	Light /Fan / Ex. fan Points with Modular switches & FRLSH wires	Each Pt.	803.00	803	644,809.00
93	R3-ME-3-49-b	3/5 Pin Independent Plug (IP) with Modular switches & FRLSH wires	Each Pt.	230.00	883	203,090.00
94	R3-ME-3-38-i	15 / 5 A / 6 A Combined Power Plug Socket Point with Fuse and Indicating Lamp, One 15 Amp SP Switch	Each Pt.	173.00	1,524	263,652.00
95	R3-ME-6-4-a	Monoblock pumpsets: 1 H. P. single / three phase motor, with head of (14- 25 mtr.) giving discharge of (2.1– 0.66 lps) (40 x 32mm). Pump body: Cast Iron, Impeller: Cast Iron, Shaft SS410	Nos	45.00	15,053	677,385.00
96	R3-ME-6-19-a	Automatic pump control panel	Nos	15.00	50,982	764,730.00
97	R3-ME-4-12-p	Wall mounting fan of 400mm sweep, 230 Volts,AC 50 Hz, oscillating type complete with all necessary accessories for completing installation.	Nos	69.00	2,537	175,053.00
98	R3-ME-4-34-a	Tubelight fixtures 1x18W	NOS	312.00	456	142,272.00
99	R3-ME-4-12-d	Ceiling fan of 1200 mm sweep with all accessories including Electronic Regulator for completing installation as per specification.	No.	69.00	2,094	144,486.00
100	R3-ME-4-12-s	Fan safety rope/ Fan wire.	No.	69.00	326	22,494.00
101	R3-ME-4-33-e	Indoor LED Fixtures - LED Square Recessed Downlighter - 24 W	Nos	306.00	1,577	482,562.00
102	R3-ME-4-34-h	SITC of IP67 flexible 24 V linear LED strip Color temperature (CCT)	mtr	490.00	7,403	3,627,470.00
103	R3-ME-4-12-h	Exhaust fan of 230mm sweep, 1400RPM, with 450 CFM free air delivery, AC 230V/415V , 50 Hz, single phase / three phase complete with all necessary accessories for completing installation as per specification.	No.	208.00	1,751	364,208.00
104	R3-ME-7-1-c	Earthing station with 600 mm x 600 mm x 6 mm galvanised iron plate & 50 mm dia. G.I. pipe, 3000 mm long GI pipe (Class B or better) earth pit as per IS 3043. The earth pit shall be provided with watering pipe (Class B) with wire messed funnel, 25x3 GI strip / 8 SWG GI wire up to chamber (wire or strip size as per fault level), disconnecting links with 600 x 600 mm (clear) RCC chamber & heavy duty 3mm thick CI chequered plate cover with hinge & stainless steel bolts. Bentonite/ Charcol & Salt shall be provided for earth pits. Excavation, backfilling, removal of excess soil is included in the scope.	Nos	15.00	16,475	247,125.00

105	R3-ME-15-30-c	Supplying and erecting ABC powder type fire extinguisher as per IS : 13849 /15683 of 6 kg capacity with necessary clamp for erection on Wall.	Nos	36.00	2,156	77,616.00
106	R3-ME-12-13-b	Supply, Installation, Testing & Commissioning of InfraRed Analog HD Outdoor Bullet camera, 1/3" CMOS image sensor, Fixed Lens: 3.6mm (2.8mm, 6mm & upto 12mm optional lens), Minimum 720 P lines horizontal resolution, IR Range upto 20m, 1 channel BNC HDCVI high definition video output, Minimum Illumination: 0.05Lux/F2.0, 0Lux IR ON; Auto(ICR) / Color / B/W filter and etc. to fulfill the requirement.	Mtr	60.00	6,531	391,860.00
107	R3-ME-12-13-Y	Supply & inst of 18.5" LED Monitor	Each	30.00	6,992	209,760.00
108	R3-ME-12-9-v	SITC of 19 inch Rack Nos 34371	Each	15.00	34,371	515,565.00
109	R3-ME-6-2-d	Submersible pump set of 1 H.P. single / three phase electric motor discharge : 120 lpm at 20 m head to 40 lpm at 39 m head Pump body : cast iron, Impeller : Noryl, Shaft SS410 Pump delivery diameter 32 mm	Nos	15.00	15,963	239,445.00
110	R2-SBM-7	Water Meter	Each	15.00	60,000	900,000.00
111	R2-SBM-8	Electric Meter	Each	30.00	18,000	540,000.00
112	R3-SBM-12-8	Providing and laying water line for water connection	Mtr	750.00	1,752	1,314,000.00
113	R3-ME-12-13-A	Dome type CCTV Camera	Each	44.00	6,015	264,660.00
114	R3-ME-12-13-H	Supply, Installation, Testing & Commissioning of HD Digital Video Recorder: 16 CHANNEL AHD front-end real-time encoding, 2 audio inputs and 1 audio outputs, Simultaneous live viewing, recording, playback, and remote streaming, VGA, HDMI, PTZ, USB Interface. 10/100Base-T Ethernet port for local or wide area network connection, RS485 serial port for serial communication to control movable cameras, Keyboard support including loop-through to other DVR's. 16:9 and 4:3 monitor aspect ratio displays for large-format monitor support. Full-screen, quad and multi-screen display capabilities in live and playback modes. Motion detection. Multiple search modes including smart search (search for motion within recorded images). Pan/tilt/zoom camera control via RS485/PTZ Interface. Local archiving via USB, Local archiving via built-in RW-DVD burner (specific models). Built-in web viewer for remote viewing, playback control, and configuration. Frame Per Second: Minimum 25 FPS. Hard disc : 4 SATA ports(4 HDDs or 3HDDs+1 CD/DVD-RW), up to 16TB, 1 eSATA port (Max 4 SATA HDDs), up to 16TB. As per storage configuration contractor shall consider the separate harddiscs	Each	15.00	34,371	515,565.00
115	R3-ME-12-13-K	SITC of 6TB Storage (HDD)	Nos	15.00	29,345	440,175.00
116	R3-CS-SS-13	Chain Link Fencing	Sqmt	370.00	1,116	412,920.00
117	R3-ME-4-20-b	Standard Large Industrial type Fly killer with M.S. body, 2 X 20W tube and approx. area covered: 2500 sq.ft.	Each	23.00	3,701	85,123.00
118	R3-RT-16-34	Two way Raised pavement	Each	310.00	433	134,230.00
119	CE5-18-024-FA65	GRC name plate of required height and thickness BMC logo on both side	Rmt	45.00	42,267	1,902,015.00
120	SIC-M&E-SNVM-O1	Supply, Installation, Testing & Commissioning of sanitary napkin vending machine, minimum capacity of 20 nos, sanitary napkins	Each	15.00	30,744	461,160.00

121	SIC-M&E-SNBM-O2	Supply, Installation, Testing & Commissioning of sanitary napkin burning machine (incinrator), minimum capacity of 100 nos, sanitary napkins	Each	15.00	34,530	517,950.00
122	SIC-M&E-SN-O3	Supply of sanitary Napkin	Each	51,000.00	4.80	244,800.00
123	SIC-M&E-MC-O4	Supply of metallic coins	Each	7,500.00	2.23	16,725.00
124	BM-FA-19-PL-01	Supply, installation & testing of electronic high speed hand dryer (heavy duty) having material stainless steel 304, mirror finished or equivalent approved make.	Each	30.00	9,868	296,040.00
125	R3-ME-4-14-a	Storage type Horizontal / vertical water heater 3 Liters capacity on wall / loft as per specification.	Each	30.00	3,175	95,250.00
SEWER LINE						
126	R3-CS-EW-5	Excavation by using splitters for foundations, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in hard rock, reinforced concrete, for depths/lifts upto 1.5M, including drilling, breaking in small pieces, mucking, dressing/trimming the sides, leveling of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less than 97% Modified Proctor density conforming to relevant IS, stacking in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed by Engineer-in-Charge, loading, unloading, leveling excluding shoring, strutting etc. complete. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	CUM	116.06	4,433	514,472.00
127	R3-SE-1-1	Excavation in all types of soils (for sewerage works),such as Earth, Marine clay, Marshy land, Running sand, Garbage, Slush, Murum, Rock boulders etc as directed by the engineer. The rate includes dewatering, backfilling, removing the rank vegetation and removing the excavated materials within a lead of 150M as directed including levelling, ramming,etc complete, and measured from the edge of cutting including all lifts and stacking in layers and removing the surplus excavated materials as directed for lift upto 2M(Records to be maintained properly).The rate also includes supporting public utilities such as cables,drains,pipe water mains, but shall not include the cost of shoring etc as specified and directed. 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	CUM	769.34	610	469,298.00
128	R3-SE-1-1-a	-do-do- as per item R3-SE-1-1 for lift from 2m to 4.0m	CUM	33.90	838	28,410.00
129	R3-CS-EW-23	Providing &Laying dry stone Rubble Pitching with average 150 mm size and of minimum thickness 230 mm hard stone set in regular lines to form plane surface, handpacked and interstices thoroughly filled with small chips including providing and laying gravel quarry spells underneath for leveling undulations of the ground. etc complete as directed by Engineer In Charge. (Note: The rate includes the royalty and other taxes if any)	CUM	411.84	547	225,277.00
130	R3-SE-2-1	Providing & laying M 10 c.c. For foundation/bedding including boxing, curing etc. complete as specified and as directed.	CUM	33.00	6,421	211,893.00

131	R3-SE-1-4	Providing and removing close shoring and strutting in the trenches/ pits for all depths as per specifications/ drawings and or as directed by Engineer-in-charge by including walling, struts, open poling boards, horizontal sheeting, runners, dog spikes by using timber etc. complete	SQM	540.76	768	415,304.00
132	R3-RW-10-24	Supply & filling sand metal, GRAVELLY SAND, corresponded to CLASS II/ CLASS III GRADING of TABLE 100.1 of BMC road specifications for roadworks in trenches upto required depth & watering, ramming etc. complete as directed.	CUM	511.23	2,251	1,150,787.00
133	R3-SE-5-1-b	Providing & laying stoneware pipes of SP2 class including jointing with CM(1:1), filleting etc. complete as specified & directed.	RMT	275.00	1,113	306,075.00
134	R3-SE-2-5	-do- -do- M 15 c.c. For full encasement or cradle -do- - do-	CUM	28.69	7,719	221,474.00
135	R3-SE-8-1	Constructing brick masonry inspection chamber rectangular 0.9M x 0.45M and 0.6M deep on sewer with 230mm brick walls in cement mortar 1:3 plastered both inside & outside with 20 mm thick cement mortar 1:2 and neat cement rendering so as to give a smooth surface including 230mm cement concrete bedding (M 15) and cement concrete (M 15) in haunches and channels finished smooth with 20 mm thick cement mortar(1:1) and fixing C.I. extra heavy duty airtight rectangular frame & cover of size 0.9M x 0.45M weighing minimum 225Kg. resting on 300 mm high c.c. cap M 20 with (1:1) cement plaster on both the sides & necessary C.I. steps (weighing 5.4 kg each) staggered at 300mm c/c. including 75 mm wide vata all round the external portion of the chamber and the foundation concrete in C.M. 1:1 etc. complete as per plan in Dy.Ch.E.(SP)P&D's office(without excavation) .	EACH	22.00	37,244	819,368.00
136	R3-SE-8-1-a	Extra over above for every additional metre depth upto 2.5M -do- -do-etc. complete as specified and directed.	Mtr.	31.85	15,737	501,224.00
137	R3-SE-6-1	Constructing on sewer brick masonry conical manholes 1.2M dia. at bottom 0.56 M. dia. at top, built in brick masonry in cement mortar 1:3, plastered both inside and outside with 20 mm thick cement mortar 1:2 and neat cement rendering so as to give a smooth surface, including 300 mm thick M.15 cement concrete in foundation and in haunches and channels finished smooth with 20mm thick cement plaster in cement mortar 1:1 and providing C.I. steps (weighing 5.4 kg each) staggered at 300 mm. c/c including 75mm wide vata all round the external portion of the manhole and the foundation concrete in cement mortar 1:1 and supporting the incoming pipes with brick masonry wherever necessary including C.I. extra heavy duty (EHD) air-tight circular frame & cover (minimum 230 Kg.) with hinge/chain resting on 30 cm high cement concrete M.20 cap with necessary centering etc. all complete as per standard specifications and directions including finishing the cap with cement plaster on both sides 1:2 and neat cement rendering so as to give a smooth surface in line and level with the brick masonry surface and as per drawing in Dy Ch.E.(Sewerage)P&D's office without excavation depth upto 1.5 M.(Depth of Manhole measured from top of manhole cover to Invert level of manhole)	EACH	9.00	51,133	460,197.00
138	R3-SE-6-1-a	Extra over Depth MH upto 1.50	Mtr.	9.00	17,472	157,248.00

139	R3-RW-2-20	Providing & laying, spreading & compacting graded crushed stone aggregate to wet mix macadam to the satisfaction of Engineer including premixing the material with water to OMC in mechanical mix (pug mill) carriage of mix material by tipper to site, laying in uniform layer of 75 mm to 100 mm (compacted thickness each) with sensor paver finisher on prepared subbase & compacting with vibratory roller (10 tonne) to achieve desired density including lighting, guarding barricading & maintenance of diversion etc. as directed by the Engineer, (Rebate for not using sensor paver should be taken, (metal gradation from 53 mm to 75 micron as per prevailing MCGM specifications for Roadworks clause no.240).	CUM	68.64	3,338	229,136.00
140	R3-RW-2-21	Providing & laying, spreading & compacting specified crushed stone in granular subbasecourse including premixing the material in mechanical mixer (pug mill or approved type), spreading of mixed material in uniform layer of 100 mm to 75 mm (compacted thickness each) with motor grader or paver on prepared surface & compacting with 10 tonne vibratory roller to achieve desired density including all material, labour, machinery, lighting, barricading to all lifts & lead, maintenance of diversion etc. complete (metal gradation from 75mm to 75 micron as per prevailing MCGM specifications for Roadworks clause no.210).	CUM	48.82	2,702	131,907.00
141	R3-RW-2-22	Rebate for not using motor grader / paver for laying of Granular Sub base in R3-RW-2.21.	CUM	-48.82	114	-5,566.00
		GRAND TOTAL				136,719,550.00