BRIHANMUMBAI MUNICIPAL CORPORATION

Combined BOQ

W-414 : Improvement of various major Roads in CC/CC Passage and Sidestrips in CC Passage in K/W, P/S & P/N Ward of Z-IV, W.S.

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
1	R2-RW-7- 37	(a) To carry out total station survey of the road with reference to existing co-ordinate system by establishing control stations by establishing to carry out total station survey of the road	181.00	20182.50	Upto 500 Meter	3,653,032.50
2	R2-RW-7- 38	with reference to existing coordinate system by establishing control stations by establishing temporary bench mark from permanent bench mark, marking centre line of the road by nails,	150.00	3900.00	/100 Meter	585,000.00
3	R2-RW-7- 39	with reference to existing co-ordinate system by establishing control stations by establishing temporary bench mark from permanent bench mark, marking centre line of the road by nails, arrains out detailed low slive y lotting coars	9.00	21190.00	Upto 500 Meter	190,710.00
4	R2-RW-7- 40	with reference to existing co-or dinate system by establishing control stations by establishing temporary chmark from permanen t benchmark,marking centreline of the road by rollsary our total stations level in the road by	96.50	4238.00	/100 Meter	408,967.00
5	R2-RW-7- 43	with reference to existing coordinate system by establishing control stations by establishing temporary bench mark from permanent bench mark, marking centre line of the road by nails, training out detailstations slively lotting rocars	2.00	25220.00	Upto 500 Meter	50,440.00
6	R2-RW-7- 44	with reference to existing coordinate system by establishing control stations by establishing temporary bench mark from permanent bench mark, marking centre line of the road by nails, excavation detailed and line of the road by nails,	36.00	5044.00	/100 Meter	181,584.00
7	R2-CS-EW-	basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits&general building works in soft/disintegrated rock, sandstone, stiff clay, gravel, cobblestone, backlytarith by this bring by manham operanions,	855157.00	500.00	Cum	427,578,500.00
8	R2-CS-EW-	pneumatic breaker, hammer, drilling, compressor breaker, jack hammer etc. for foundations, substructures, basements, tanks, sumps, walls, chambers,	56960.50	1054.00	Cum	60,036,367.00
9	R2-CS-EW- 7-a	Extra over the items CS-EW-03 to CS-EW-06 for lift from 1.5m to 3.0m.	114198.00	127	Cum	14,503,146.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
10	R2-SWD- 45	supplying and providing blue trap stones of approved quality and laying hand set dry rubble packing 25 cm. thick to required level and grade, camber including filling in the interstices with 60 mm. metal and small stone chirseafty and temperature of the control	180029.00	846	Cum	152,304,534.00
11	R2-RW-10- 26	having avg compressive strength 18.5 Mpa for Foundation/ encasement/ pavement/ cradle including form of mixing in batch ing plant, compacting by interna l&surface	86454.00	6893.00	Cum	595,927,422.00
12	R2-RW-10- 29	compressive strength 24Mpa procured from M.C.G.M. approved R.M.C. plant including use of approved makes plasticizer/retarder & transported by transit mixer & placing at work site compacting, finishing curing etc. by	81810.00	7055.00	Cum	577,169,550.00
13	R2-CS-CW-35-c	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, chailing lintals, pardies coping, fine arches	20850.50	76770.00	M.T.	1,600,692,885.00
14		shuttering made with marine plywood /M.S.Sheets with proper supports at all locations for all shapes etc., for encasement & deshuttering the same after specified period or	1176071.00	558.00	Sqm	656,247,618.00
15		shuttering made with marine plywood /M.S.Sheets with proper supports at all locations for all shapes etc., for encasement & deshuttering the same after specified period or next day of placing the microcongrete	169169.00	483	Sqm	81,708,627.00
16	R2-RW-7- 32	fixing M 25 Grade R.C.C. pre-cast frame of size 1150 x 1150 x 150 mm and cover (2 Nos) of size 1000mm x 500mm x 75mm in line, level over storm water drain as per design	23754.00	2896.00	Set	68,791,584.00
17	R2-RW-10- 51	plant with excellent finish and sharp edges inclusive of excavation in any soil except rock,	11587.00	799.00	Meter	9,258,013.00
18	R2-RW-8- 02	class, jointing, filletting in1:1C.M.,including plugging of both the ends with gunny bags, brick masonary in C.M.1:4 with plaster in C.M.1:4 & curing etc. complete, as specified	31167.00	640.00	Rmt.	19,946,880.00
19	R2-SWD- 148	suppryifigd and fixing 0.90m x 0.00m internal size of rectangular C.I. air-tight cover and frame weighing minimum 270 of material grade of min. FG 150 conforming to IS 210:2009 and specification no SP-SWD3 with the grade designation of HD 20 conforming to	100.00	31371.00	Each	3,137,100.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
20	R2-SWD- 146	size of rectangular C.I. air-tight cover and frame weighing minimum 910 kg of material grade of min. FG 150 conforming to IS 210:2009 and specification no SP-SWD3 with the grade designation of HD 20 conforming to	830.00	94200.00	Each	78,186,000.00
21	R2-SWD- 119	inspection chamber rectangular 0.9M x 0.60M and 0.6M deep on sewer with 230mm brick wallsin cement mortar 1:3 plastered both inside & outside with 20 mm thick cement	7341.00	49457.43	Each	363,066,993.63
22	R2-SWD- 120	Extra over item no R2-SWD-119 per meter depth above 0.60m and upto 2.5m, etc all complete as specified & as directed by Engineer in Charge.	2073.00	15442.39	Meter	32,012,074.47
23	R2-CS-EW-	land/plot developement in soft/ disintegrated rock, sand stone, stiff clay, gravel, cobblestone, hard laterite, water bound macadam, wet mix macadam, pitching, soling, netherand, watering important in pitching, watering in the solid process.	595992.00	343.00	Cum	204,425,256.00
24	R2-RW-1- 13	roller weighing not less than 10 tonnes & preparing the ground to the required grade & camber etc. complete as specified and as directed by the Engineer as per prevailing	991719.00	9.83	Sqm	9,748,597.77
25	R2-RW-2- 21	MGGMng & idyntig; spferding & corhipacting specified crushed stone in granular subbase course including premixing the material in mechanical mixer (pugmill or approved type), spreading of mixed material in uniform layer of 100 mm to 75 mm (compacted thickness).	71877.00	2547.00	Cum	183,070,719.00
26	R2-RW-2- 20	pfolding & 175mg, spreaming & toinhacting graded crushed stone agreegate to wet mix macadam satisfaction including premixing the material with water to OMC in mechanical mix (pugmill) carriage of mix material by times to site laying in uniform layer of 75 mm.	161643.00	2937.00	Cum	474,745,491.00
27	R2-RW-10- 32	cement content 150kg/ cum of concrete with OPC43 grade cement, mixing of concerete as	66350.00	4481.00	Cum	297,314,350.00
28	R2-RW-10- 33	providing & laying M-40 Sinc. avg. avg. compressive strength 45 MPa and b avg. flextural strength of 5.0 MPa (As per IRC 15-2002.N.1.6) procured from M.C.G.M. approved R.M.C. plant including use of approved make plasticizer/retarder.	227817.00	7968.00	Cum	1,815,245,856.00
29	R2-RW-10- 39	extrave-liver providing ratardering special admixtures/ plasticizers to achieve required crushing & average flexural strength 5.0 Mpa of M40 grade concrete in 7 days. NOTE: THIS ITEM SHOULD BE OPERATED ONLY	241839.00	1067.00	Cum	258,042,213.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
30	R2-RW-10- 27	compressive strength 13.5 Mpa in foundation/encasement/pavement with or without chequered design including formwork, mixing in batching plant, placing, vibrating with plate proveding vibratppiching periodete when	82875.00	6452.00	Cum	534,709,500.00
31	R2-RW-5- 20	CATIONIC BITUMEN EMULSION (SS) @ 7 to 12Kg. of 10 Sqmt. over prepared surface to receive bituminous mix by applying PRIMER with mechanical spray bitumen, including	238981.00	57.00	Sqm	13,621,917.00
32	R2-RW-5- 23	CATIONIC BITUMEN EMULSION (RS) @ 0.2 to 0.25Kg. of Sq.mt. over prepared surface to receive bituminous mix by applying TACK COAT with mechanical spray bitumen, including cleaning of read surface etc.	238235.00	33.00	Sqm	7,861,755.00
33	R2-RW-5- 25	including anaripgofing TAUKTCOAT with CATIONIC BITUMEN EMULSION (RS) @ 0.25 to 0.30 Kg. of Sq.mt. over prepared surface to receive bituminous mix by applying TACK COAT with mechanical spray bitumen, including relatives for the content of the cont	238235.00	35.00	Sqm	8,338,225.00
34	R2-RW-5- 46	with 4.50% bitumen content of grade VG-40 to the required line, level, and camber rolling with 10/12 M.T. power , vibratory roller & sensor paveretc. complete as specified and as directed	17563.00	9008.00	Cum	158,207,504.00
35	R2-RW-5- 51	with pretintx inoi may enturn hours woncrete warn 6.00% of VG-30 bitumen content by weight of mix surface coat to compacted to required thickness using new material to the required grade, level and camber rolling with power, when the reason was a surface as the compact of the required grade, level and camber rolling with power, when the results are the results as the results are the results and the results are	642.00	10974.00	Cum	7,045,308.00
36	R2-RW-5- 64	grade bitumen including producing the same at computerised batch mix plant, transporting the same to site by means of mastic cookers, laying the same with mastic paver and incl. Historia aspects 23/1100 for the with the	77540.00	1571.00	Sqm	121,815,340.00
37	R2-RW-5- 65	grade bitumen including producing the same at computerised batch mix plant, transporting the same to site by means of mastic cookers, laying the same with mastic paver and ixalsulip or lowering transfer habitores to the	172817.00	1079.00	Sqm	186,469,543.00
38	R2-RW-6- 03	required level upto 20cm. Including all material, form work etc.with 16cm.thick cement concrete M-15 (1:2:4) c.c. coping under frame and cover of manhole, including	2755.00	1151.00	Each	3,171,005.00
39	R2-RW-6- 04	Raising or lowering water entrances ,hydrant key box/sluicebox/gully trap chambers to the required level,upto20cm.including all materials,curingetc. complete as specified and as directed.	362.00	801.00	Each	289,962.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
40	R2-RW-6- 05	the required level upto 30cm. Including all materials, form work, brick work and with 16 cm.thick M-15 C.C. coping under frame & cover of manhole including curring	723.00	2297.00	Each	1,660,731.00
41	R2-RW-6- 06	Removing the old C.I. curicular frame & cover & delivering the same to any Municipal depot or worshop, as directed.	723.00	147.00	Each	106,281.00
42	R2-RW-7- 01	Removing & refixing traffic regulatory boards/bus stop boards/street name boards etc. in M-100 cement concrete, complete as directed.	432.00	881.00	Each	380,592.00
43	R2-RW-7- 29	excavation and dismanting of structures on roadway, shifting and relocating of essential utilities, street poles, signals road sign boards including taking necessary permission from the service providers/authorities including	415.00	1229.00	Nos	510,035.00
44	R2-RW-7- 31	roadway, shifting and relocating of essential utilities, street poles, signals road sign boards including taking necessary permission from the service providers/authorities including	307.00	327.00	Nos	100,389.00
45	R2-SE-5-1- a	Providing & laying stoneware pipes of SP2 class including jointing with CM(1:1), filleting etc. complete as specified & directed. 150 mm	8095.00	657.00	Rmt.	5,318,415.00
46	R2-RW-8- 03	class, jointing, filling in 1:1 cement mortar, including plugging of both the ends with gunny bags, brick masonary in cement mortar 1:4 with plaster in cement mortar 1:4 & curing	415407.00	796.00	Rmt.	330,663,972.00
47	R2-RW-8- 04	Providing & fixing in position M- 20 cement concrete precastslab, 50cmx50cm.&8cm. Thick with the word "DUCT" inscribed over it including making good,the damaged surrounding surface etc. complete.	4549.00	326.00	Nos	1,482,974.00
48	R2-RW-10- 46	compacting, curing, with formwork, etc, including bedding of R.M.C. of M-10 C.C,	5520.00	1685.00	Rmt.	9,301,200.00
49	R2-RW-10- 06	40 cement concrete including required form work mixing, compacting & curing, etc. complete reinforced with 12mm dia. (Minimum 4 Nos.) M.S. main bars & 6mm	29345.00	844.00	Rmt.	24,767,180.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
50	R2-RW-10-	Cutting of construction & dummy Joints of Mi- 35 C.C. & above slab by mechanical means with in 10 to 16 hrs. Of casting of bay / slab as directed. A)transverse dummy joints 100 mm deep / 1/3 thickness of concrete pavement &	838406.00	59.00	Rmt.	49,465,954.00
51	R2-RW-10- 12	6 construction & dummy/joints of wi- 35 C.C. & above slab by mechanical means within 10 to 16hrs. of casting of bay/slab as directed.B)Longitudinal construction joints 100 mm deep/1/3rd thickness of slab & 6mm	931037.00	59.00	Rmt.	54,931,183.00
52	R2-RW-10- 13	Asphalt filler 12mm thick confirming to I.S. 1838 of 1983 for placing of the expansion joint, around manholes & water entrances, etc put to the required depth & 25 mm below the	85784.00	352.00	Sqm	30,195,968.00
53	R2-RW-10- 14	Providing & placing 5mm thick thermocole in dummy & construction joint simmediately after cutting of joints & removing the same before dressing of dummy & construction joints etc. complete, as directed.	190542.00	76.00	Sqm	14,481,192.00
54	R2-RW-10- 15	pipe of approved quality to fit around the dowel bars of 32 mm dia at the end of expansion joints, fully greased inside, cotton waste the pipe around the dowel bars & the	23231.00	31.00	Nos	720,161.00
55	R2-RW-10- 16	bars of 12 mm dia 55 cm long & 45 cm C/C whenever directed including handling, wrapping with paper for half length, fixing, straightening, wastage etc. complete in all	136.00	63226.00	M.T.	8,598,736.00
56	R2-RW-10- 17	Providing & fixing in position M.S. dowel bars of 32mm dia 55 cm long & 30 cm C/C whenever directed including handling, fixing, etc. complete(no extra payment will be made for applying bitumen & grease to dowel bars).	178.00	62904.00	M.T.	11,196,912.00
57	R2-RW-10- 19	(1:10) at 0.6m *0.6m c/c/admeasuring 0.09m at bottom,0.04m at top & 0.075m deep & maintaining the same throughout 14 days curing & removing the same thereafter as	1267912.00	78.00	Sqm	98,897,136.00
58	R2-RW-10- 23	pavement, dummy, transverse, longitudinal & expansion joints with hot rubberised sealing compound confirming to IS1834 -1984 after proper cleaning with compressed air, applying transfer or ime-58 & ravide new New Of time	838406.00	92.00	Rmt.	77,133,352.00
59	R2-RW-10- 24	pavement, dummy,transverse,longitudinal&expansion joints with hot rubber is edsealing compound confirming to IS 1834-1984 after proper	931037.00	92.00	Rmt.	85,655,404.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
60	R2-HE-7-2- a	pipes in trenches of following class and diameter by wrapping them by hessian cloth with tar coating and including any nominal pipe length required to be laid above ground level conveyance from stores to site work all	17230.00	168.00	Rmt.	2,894,640.00
61	R2-HE-7-2- b	Do20 mm dia.	20660.00	174.00	Rmt.	3,594,840.00
62	R2-HE-7-2- c	Do25 mm dia.	15400.00	265.00	Rmt.	4,081,000.00
63	R2-HE-7-2- d	Do32 mm dia.	15400.00	316.00	Rmt.	4,866,400.00
64	R2-HE-7-2- e	Do40 mm dia.	15400.00	388.00	Rmt.	5,975,200.00
65	R2-HE-7-2- f	Do50 mm dia.	15400.00	481.00	Rmt.	7,407,400.00
66	R2-CS-PS- 90-a	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc 15 mm dia	15400.00	199.00	Rmt.	3,064,600.00
67	R2-RT-16- 33	thermoplastic road marking material with glass beads extremely high skid resistance 2.5mm thick without primer coat (tack coat) on asphalt road surface. All labour materials with special aggregates etc. as specified in B.S. part-	111110.00	662.00	Sqm	73,554,820.00
68	R2-RT-16- 07	Arrow marking for Route direction straight or right or left or straight & right or straight or left & lettering as per design in white or traffic yellow as specified and directed for speed limit upto 50 km/hrs.	1973.00	1241.00	Nos	2,448,493.00
69	R2-RT-16- 08	Providing, fabricating and erecting on site Street Name Board (of type 2S-A-1) as per the design incorporated in the catalogue of street Furniture (Volume-II) Published by M.C.G.M. Vertical pole shall be M.S. Square pipe of size	511.00	22712.00	Nos	11,605,832.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
70	R2-RT-16- 15	erecting on site Junction Name Board / Chowk (of type 2S-D), as per the design incorporated in the catalogue of street Furniture published by M.C.G.M., Vertical pole shall be M.S.	443.00	35459.00	Nos	15,708,337.00
71	R2-RT-16- 18	Erecting on site Direction Board (of type 3SA2)(small-2) As per the design incorporated in the catalogue of street Furniture published by M.C.G.M., Vertical mandally & Education Street Suppose Theorem (hex)	480.00	37751.00	Nos	18,120,480.00
72	R2-RT-16- 25	Fabricating, Erecting on site Mandatory &	1333.00	6469.00	Nos	8,623,177.00
73	R2-RT-16- 27	Fabricating, Erecting on site Mandatory Boards (of type 1S-A-1.1). As per the design incorporated in Street Furniture catalogue volume–II published by M.C.G.M., Vertical	1014.00	12031.00	Nos	12,199,434.00
74	R2-GW-7- 11	Supply and Spreading of Red Hill Earth Red hill earth free from graass, stones, rubbles redish in colour pass through 5 mm sieve and spreading of red hill earth at site location/ plot and rolling as directed by site incharge	2288.20	1283.00	Cum	2,935,760.60
75	R2-SE-10- 3	Supplying and fixing 0.56 M dia C.I. Circular extra heavy duty (EHD) air tight frame and cover weighing minimum 230kg fixed complete to manholes.	2656.00	29935.00	Each	79,507,360.00
76	R2-SWD- 154	Providing & Fixing 100 mm. dia PVC. Pipes of approved quality as weep holes in nalla/retaining walls etc.complete as directed by Engineer in Charge.	31265.00	355.00	Rmt.	11,099,075.00
77	R2-RW-10- 28	specifications for roadworks in trenches upto required depth & watering, ramming etc.	10125.00	1905.00	Cum	19,288,125.00
78	R2-SWD- 35	Colling to the concrete works by any means in pavement, bedding below foundation, coping, walls arches, stone, brick pavement coping etc. of any thickness of any height / depth above or below ground level etc. complete, as specified & as directed by	34424.00	1314.00	Cum	45,233,136.00
79	R2-SWD- 36	beams, columns, arches, piles, pile caps of any thickness and or size of any height / depth by any means below or above ground level including cutting down steel reinforcement,	79555.00	1588.00	Cum	126,333,340.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
80	R2-RW-10- 18	Providing & laying water proof paper of 40 GSM including overlap (to be not less than 10cm)etc. complete as specified as directed.	1032463.00	11.00	Sqm	11,357,093.00
81	R2-RW-10- 63	20 in footpath Providing, applying and finishing the top surface of M-20 concrete with stamp/ stencil of approved pattern and colour, in accordance with manufacturer's	208847.00	436.00	Sqm	91,057,292.00
82	R2-RW-7- 17	marking paint grade—I in 3-coats including single coat of approved brand primer after cleaning of old surface of kerbstone with brushing by wire brush as per relevant I.S.	131756.00	50.00	Rmt.	6,587,800.00
83	R2-SWD- 57	cement mortar 1:2 including neat cement rendering with approved water proofing compound (with a proportion as specified by the manufacturer per bag of cement) as	14955.00	271.00	Sqm	4,052,805.00
84	R2-SWD- 58	Providing 20 mm thick cement plaster in cement mortar 1:2 including neat cement rendering (without water proofing compound) as specified & as directed by Engineer in Charge.	9920.00	376.00	Sqm	3,729,920.00
85	R2-RT-16- 34	Pavement Markers made of polycarbonate moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kg	267840.00	427.00	Each	114,367,680.00
86	R2-SWD- 25	frowands hald practing in postatol 2635 foreat cement Ready Mix Concrete of M-25 grade in raft slab by using ordinary Portland cement including curing by any means, as specified & as directed by Engineer in Charge. Providing and practing in position it by the original position in the providing and practing in position in the position in the providing and practing in and pra	48003.00	6979.00	Cum	335,012,937.00
87	R2-SWD- 30	Ready Mix Concrete of M-25 grade in walls, deck slab above or below ground level at any height/depth by using ordinary Portland cement including curing by any means, as	106933.00	8735.00	Cum	934,059,755.00
88	R2-SWD- 178	Ready Mix Concrete of grade M- 40 in raft slab by using Ordinary Portland Cement including transportation to site anywhere in Mumbai including curing by any means etc.	52107.00	7777.00	Cum	405,236,139.00
89	R2-SWD- 179	Ready Mix Concrete of grade M- 40 in walls and deck slab above or below ground level at any height / depth by using Ordinary Portland Cement including Transportation anywhere in Mumbai including curing by any means etc.	87554.00	9569.00	Cum	837,804,226.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
90	R2-SWD- 76	R.C.C. Hume pipes with Collar joints conforming to IS 458:2003 and laid on approved bedding as per IS 783:1985 (reaff. 2010)	4424.00	2041.00	Meter	9,029,384.00
91	R2-SWD- 176-A	incovding in internal size of M.S. Galvanised hinged type grating and frame (weighing minimum 130 kg) of grade HD20, with minimum 75 microns zinc coating by hot dipped galvanising the MS provinging differences of the 2620st The E	10492.00	17084.00	Nos	179,245,328.00
92	R2-RW-10- 37	GUARD KERB of M-20 C.C. of height 230mm., width 100mm., Length 400mm., finished neatly, compacting , curing, formwork etc. including bedding of M-10	9738.00	471.07	Rmt.	4,587,279.66
93	R2-RW-2- 22	Rebate for not using motor grader / paver for laying of Granular Sub base in R2-RW-2.21.	30519.00	-93.00	Cum	-2,838,267.00
94	R2-RW-5- 71	Rebate for not using SENSOR PAVER INSTEAD OF ORDINARY PAVER USED for Laying of BITUMINOUS MIXES.	2659569.00	-7.00	Sqm	-18,616,983.00
95	R2-SWD- 142	constructing single water entrance of internal size 0.50m x 0.60m with cast-in-situ coping in M-20 grade, fixing of grating in M-20 as per standard drawings (Dwg No. MCGM/SWD/2013-14), etc complete as	22038.00	11641.00	Each	256,544,358.00
96	R2-SWD- 175-A	internal size of DI hinged type grating and frame (weighing minmum 80 kg) with grade designation of C250 with black bitumen coating to DI gratings & frame confirming to	21984.00	14786.00	Each	325,055,424.00
97	R2-RW-10- 50	Frotraning and material KerbStone of various grades of size: 500mm width x 325 height x 165mm thick (HalfBatter, BullNose / FullBatter) manufactured in wet press vacuum dewatering technology plant / equivolent with face pimple.	146774.00	1,116.00	Rmt.	163,799,784.00
98	R2-RT-16- 14	teritual Steel Boliards': Providitly, Tao ricanly and fixing circular Steel Bollards of 100mm dia circular Steel Pipe (of type 3F-A-1) as per the design incorporated in the Catalogue of Street Furniture (Vol-II). Published by McGMmg, Taber Cally Guard 1,3014 W.31: Yannag	4812.00	16062.00	Nos	77,290,344.00
99	R2-RT-16- 02	of 10 Gauge, Dia. 40mm circular railing with	21697.00	7121.00	Meter	154,504,337.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
100	CE4-18-96. 1-FA2	rroviding and laying tactile paving (for visually impaired person), confirming to IS:15622, of approved make in all colours and shades for outdoor floors such as footpth, courtyard, muilti-modallocation etcsize 300 £300x618mm arritypes for some model of the confidence of the conf	58658.00	4422.00	Sqm	259,385,676.00
101	R2-SE-1-1	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, rextra vive the over large and the control of the contr	1595.00	468.00	Cum	746,460.00
102	R2-SE-1-1- j	1-i for relevant lift of excavation in soft/	483.00	429.00	Cum	207,207.00
103	R2-SE-1-1- A	-do-do- as per item SE-1-1 for lift from 2m to 4.0m	143.00	638.00	Cum	91,234.00
104	R2-SE-1-4	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, Providing & Engineer Soung	1595.00	715.00	Sqm	1,140,425.00
105	R2-CS-EW- 26	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	71.00	2231.00	Cum	158,401.00
106	R2-SE-5-1- B	Providing & laying stoneware pipes of SP2 230mm dia etc.	495.00	1113.00	Meter	550,935.00
107	R2-SE-2-5	-dodo- M 15 c.c. For full encasement or cradle -dodo-	115.00	7,354.00	Cum	845,710.00
108	R2-SE-6-2- B	manhole 1.5 M. dia. at bottom and 0.56 M dia. at top including C.I. Extra.Heavy Duty circular air tight frame and cover etc. complete as per description in item No.SE-6-1 depth upt0 2.3	26.00	90305.00	Nos	2,347,930.00
109	R2-SE-6-2- C	Extra for above manhole per metre depth above 2.3M and upto 5 M including safety chain and extra C.I. steps on other side of benching- do-do-	13.00	34099.00	Meter Depth	443,287.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
110	R2-SE-9-1	height embedded in M15 cement concrete Including flue chamber etc. complete without excavation. The height of the vent shaft to be measured from its bottom upto the top as per the flowing the places processed and directed ess,	40.00	52114.00	Nos	2,084,560.00
111	R2-RW-3- 22	size & colour from carriage way or footpath & transporting the same to ward depot or any where in MCGM limit. The paver blocks shall be stacked neatly at specified locations etc.	346140.06	157.00	Sqm	54,343,988.64
112	R2-CS- MW-4-b	designation 3.5 and above in superstructure above plinth level upto floor five level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	10756.63	6930.00	Cum	74,543,445.90
113	R2-RW-10- 55	excavation in reinforced OK pavement grade concrete M-20 & above by using modern machinery (poclainwithrockbreaker,etc.) including with stacking of excavated material within 150m radius etc. complete upto any drothang easiting and dring (any wither in	528.00	1525.00	Cum	805,200.00
114	R2-RT-15- 04	city or suburban limit) precast reinforced parabolic dividers in C.C.M 25, Type-5 as per drg. No. EET&C/Gen/013/03/ty dt. 11.12.03 (Revised on 15.06.06) including providing, bending, fixing of reinforcement as per	420.00	6403.00	Meter	2,689,260.00
115	R2-CS- MW-1-A	Brick masonry in C.M. 1:3	1225.00	6031.00	Cum	7,387,975.00
113	R2-CS-PL- 15-b	In cement mortar 1:4	1901.62	438.00	Cum	832,909.56
114	R2 -RT -16 -35	Supplying/ fixing of One Way Raised Pavement	324.00	420.00	Sqm	136,080.00
115	R2-RW-1- 06	Standard Proctor Density with a power roller weighing not less than 10 tonnes and preparing the ground to the required grade and camber for rolling in trenches as specified as directed by the Engineer	7135.00	18.00	Sqm	128,430.00
116	R2-RW-1- 08	low-laying grounds in layers not exceeding 25cm. In loose thickness & compacting each layer with a 10/12 tonnes power roller including levelling watering, etc. complete in confirmity with a regired lines grades & cross	12566.00	1511.00	Cum	18,987,226.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
117	R2-RW-2- 02	& providing the same in rubble packing 25cm thick to the required grade, level & camber, filling in voids with chips & 60mm metal etc.compacting using mechanical Pibrating ampacting / & 1 Market allitted and	6283.00	352.00	Cum	2,211,616.00
118	RT3-15- 014-FAIR- 1	PVC coated Polyester Biaxial Geogrid (Techgrid)of Techfab India for Basal Reinforcement indigenously manufactured from selected high tenacity polyester yarn with Piok molegalar ayright Phanker Wooleand	25132.00	219.00	Sqm	5,503,908.00
119	RT3-15- 014-FAIR- 2	Polypropylene Geotextile of Techfab India Indigenously Manu.from UV stabilized polypropylene tape yarn on the prepared subgrade for Reinforcement cum separation pur draingents fibertien annihination with	34364.00	138.00	Sqm	4,742,232.00
120	R2-RW-5- 50	macadam with 4.50% bitumen content of grade 60-70 to the required line,level,and camber rolling with 10/12 M.T.power ,vibratory roller & sensor paver etc.	20.00	8797.00	Cum	175,940.00
121	R2-RW-5- 47	with 4.50% bitumen content of grade VG-30 to the required line, level, and camber rolling with 10/12 M.T. power, vibratory roller & sensor paveretc. complete as specified and as directed to thickness of 65 mm, with antistripping	5491.00	572.00	Sqm	3,140,852.00
122	R2-RW-5- 40	19 thiotrogenate Sommand sofiction with 6.00% of bitumen grade 30/40, surface coat by mix design as per MORTH to the compacted thickness of 40 mm, using new material to the required line, level and camber 1910/10.119 to the required line, level and camber 1910/	268.00	450.00	Sqm	120,600.00
123	R2-RW-3-	unishape concrete pavers (monolithic-single layer precast concrete blocks) of gray cement coloured in the carriageway having average crushing strength 50N/sq.m.m. as per	200.00	871.00	Sqm	174,200.00
124	R2-RT-16- 32	thermoplastic road marking material with glass beads extremely high skid resistance 2.5mm thick with primer coat (tack coat) on cement concrete road/paver blocks surface. All	9254.00	727.00	Sqm	6,727,658.00
125	R2-RW-7- 08	Breaking & removing existing cement concrete slab over culvert copping etc., by any means etc. complete as directed	149.00	1315.00	Cum	195,935.00
126	R2-SWD- 38	Providing Brick masonry in cement mortar 1:5 as specified & as directed by Engineer-in-Charge.	20.00	11670.00	Cum	233,400.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
127	R2-SWD- 56	Providing 12 mm thick cement plaster in cement mortar 1:2 including neat cement rendering (without water proofing compound) as specified & as directed by Engineer-in-Charge	160.00	217.00	Sqm	34,720.00
128	R2-SWD- 152	Removing C.I. Frame and cover (any size) and transporting to ward office as directed.	11.00	359.00	Each	3,949.00
129	R2-SWD- 145	Supplying and fixing 0.30m internal dia circular C.I. airtight cover and frame weighing Between weighing minimum 208kg of material grade of min. FG 150 conforming to IS 210:2009 and specification no SP-SWD- 3 Prith the grade density 0.30m of U.Som Crear	11.00	23096.00	Each	254,056.00
130	R2-SWD- 169	internal size of M.S. Galvanised hinged type grating and frame (weighing minimum 71 kg) with minimum 75 microns zinc coating by hot dipped galvanising the MS grating and frame	54.00	9441.00	Nos	509,814.00
131	R2-SWD- 147	supprying and fixing contracts usually finternal size of rectangular C.I. air-tight cover and frame weighing minimum 225 of material grade of min. FG 150 conforming to IS 210:2009 and specification no -3 with the grade designation of HD 20 conforming to IS	36.00	28889.00	Each	1,040,004.00
132	R2-RW-8- 01	class, jointing, filletting in 1:1 C.M., including plugging of both the ends with gunny bags, brick masonary in C.M. 1:4 with plaster in C.M. 1:4 & curing etc. complete, as specified	9265.00	454.00	Rmt.	4,206,310.00
133	R2-CS-CW- 58	Providing and spreading broken glass pieces under the compound pavement as directed at the rate of 1.2 cubic meters of broken glass pieces for 100 sq.mts.of area	830.00	45.00	Sqm	37,350.00
134	R2-RW-10- 30	of size 23 cm x 23 cm x 35 cm in length set in 15 cm M15 C.C. filling of joints in 1:2, including escavation, form work, mixing compacting, curing etc. complete as specified and as directed.	192.00	445.00	nos	85,440.00
135	R2-SE-5-9- a	Providing, Laying and Jointing HDPE pipes of PE-80 grade and PN-6 class with butt joints etc.complete as specified and directed.	326.80	983.00	Rmt.	321,244.40
136	R2-CS-PS- 169-a-2	constructing orick masonry inspection chamber 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 :	28.00	9782.00	Each	273,896.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
137	R2-CS-CW- 35-b	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, chailas lintels pardies coping fine arches	9493.00	76770.00	МТ	728,777,610.00
138	R2-CS-CW- 30-a	Foundations, footings, bases of columns, rafts, pilecap	14877.00	300.00	Sqm	4,463,100.00
139	R2-CS-CW- 30-b	Walls (any thickness) including attached butteresses, ,retaining wall, shear wall, diaphragm wall etc	76913.00	558.00	Sqm	42,917,454.00
140	R2-CS-CW- 30-f	Stairs (waist slab), folded slab, inclined slab	21652.00	483.00	Sqm	10,457,916.00
141	R2-RW-10- 49	curing, formwork, etc, including beding R.M.C. M-10 C.C, 15 cm thick, filling of	200.00	1046.00	Rmt.	209,200.00
142	R2-RT-16- 04	railing of 10 Gauge,40mmx40mm square pipe railing with 18 mm x 18 mm square intermediate suppoert, 65mm x 65mm square main supports with M.S.pedestal (base- I type SapplyMis namgarable).	50.00	18530.00	Rmt.	926,500.00
143	R2-RT-16- 35	Pavement Markers made of polycarbonate moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens	5858.00	420.00	Each	2,460,360.00
145	R2-SWD - 46 -A	Constructing uncoursed rubble masonry in cement mortar 1:5 of first sort (with contractor's rubble), as specified & as directed by Engineerin- Charge	50.00	6678.00	Cum	333,900.00
146	R2-RW-10- 31	including providing coarse and fine aggregate to the specified gradation using minimum cement content 150 kg/cum of concrete with OPC 43 grade cement, mixing of concerete as Dressning of Messian and we lieu mechanised	24668.00	4562.00	Cum	112,535,416.00
147	R2-RW-10- 25	C.C.pavement,dummy,transverse, longitudinal & expansion joints with hot rubberised sealing compound confirming to IS 1834-1984 after proper cleaning with compressed air,applying required primer & providing, a layer of lime	3615.00	60.00	Rmt.	216,900.00

Sr. No.	Schedule Item No.	Description	Total Qty	Rate	Per	Amount
148	R2-RW-5- 63	grade bitumen including producing the same at computerised batch mix plant, transporting the same to site by means of mastic cookers, laying the same with mastic paver and including male Boars withouts alphous definition.	5491.00	1660.00	Sqm	9,115,060.00
149	R2-RT-16- 08-a	Providing, fabricating and erecting on site Street Name Board (of type 2S-A-1) as per the design incorporated in the catalogue of street Furniture (Volume-II) Published by M.C.G.M. Vertical pole shall be M.S. Square pipe of size	511.00	4666.00	Nos	2,384,326.00
					Total	15,558,382,628.13
Say					₹15,558,382,629.00	