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#### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

Vendor Address & Code 23967

DEV ENGINEERS

307, JALARAM BUSINESS CENTER GANJAWALA GANJAWALA LANE, NEAR CHAMUNDA CIRCLE BORIVALI (W) GANJAWALA

MUMBAI 400092

Tel: 022 28945556

Delivery Address/Storage Loc 9090/0001

**PO No** 4100077864

**WBS Element** RT1-21-016.001

**PO Date** 24.05.2022

PO Currency INR

**Ref Contract No** 3900145913

Sanction No 2551

MCGM GSTIN 27AAALM0042L3Z4

PAN AAKFD8486D

GSTIN 27AAKFD8486D1Z3

UIN

Place of Supply MAHARASHTRA(27)

Registered Yes

Reverse Charge Yes/No

#### Header Text:

AC-175 :- Restoration and Improvement of B.G. Kher Road in Mastic and allied Work in 'D' Ward in Zone-I, City Division.

SAC	SAC Code: 995421										
NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount					
1	R2-WSP-1-1	60.00	INR	SQM	2,300.000	138,000.00					
	Clearing the lof the treesur				stumps, removal of ro	oots, cutting and disposal					
2	R2-CS-EW-1	307.00	INR	CUM	7,820.000	2,400,740.00					
	manholes, trem vegetable eart shale, slag, of etc.for depths trimming the strank vegetation consolidating, conforming to forfuture used irected, load directed by Enthe existing to the existi	ches, polith, soft methalk, garbes/lifts upsides, leven, backficelevant I within owding, unlongineer instilities	es, pit urum, r age, mu to 1.5M eling a lling i ng to a S, stac ners sp ading, Charge such as	s & gen unning ddy/ ma measur nd ramm n layer chieve king th ace or levelin .Note:1 cables	eral buildingworks in sand, shingle, turf or sand, slushy soil, maked from the ground lesing of bottoms, manual is notmore than 200mm not less then 97% Mode selected material idisposing within an ing excludingshoring, so The rate includes the sand, sand, so the sale includes the sand, sa	nitial lead of 150m as strutting etc. complete as the handling/supporting mains etc.2) It also					
3	R2-CS-EW-2-A	71.00	INR	CUM	1,120.000	79,520.00					
	Extra over abo	ve item C	S EW 1	for lif	t from 1.5m to 3.0m.						
4	R2-CS-EW-2-B	106.00	INR	CUM	410.000	43,460.00					
	Extra over abo	ove item C	S EW 1	for lif	t from 3.0m to 4.5m						

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## MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
5	R2-CS-EW-2-C	171.00	INR	CUM	320.000	54,720.00			
	Extra over above item CS EW 1 for lift from 4.5m to 6.0m								
6	R2-CS-EW-2-D	236.00	INR	CUM	230.000	54,280.00			
	Extra over abo	ove item C	S EW 1	for lif	t from 6.0m to 7.5m				
7	R2-CS-EW-2-E	301.00	INR	CUM	140.000	42,140.00			
	Extra over abo	ove item C	S EW 1	for lif	t from 7.5m to 9.0m				
8	R2-CS-EW-2-F	365.00	INR	CUM	10.000	3,650.00			
	Extra over abo	ove item C	S EW 1	for lif	t from 9.0m to 10.5m				
9	R2-CS-EW-3	500.00	INR	CUM	540.000	270,000.00			
10	rock, sand stomacadam, wet mand hardcore, brick/ block muptol.5M measure leveling of bolayers not mornot less then measurable head of 150m a etc.complete a handling/suppomains etc.2) IR2-CS-EW-4  Excavation by compressorbreatanks, sumps, hard rock, reincluding drefemoving rank watering, consodensity conforwithin owners unloading, leven Engineer-in-Ch	one, stiffmix macada lime concurs masonry be ared from ottoms, man re than 20 97% Modifians for furting the stalso in 1,054.00 chiseling aker, jack walls, chanforced considering trip vegetation of the space or reling excurs arge, load ties such	clay,g m, asph rete, p elow gro the gro ual dew omm thi ied Pro ture us ed, load ed by E existi cludes INR by man chammer ambers, concrete mming to n, back compace elevant disposi cluding ding.No as cab	ravel, alt mix clain ce cund lev cund lev cund lev catering ckness, ctor de ce withi ling, un ringineer ng util the roy culture cultur	cobblestone, hard lar carpet of anytype, present concrete, stone el, rock boulders, el, including dressin, removing rank vege watering, consolidated in sity conformingto removers space or district conformingto removers space or district conformingto removed in loading, leveling exemples alty and other taxes alty and other taxes alty and other taxes or foundations, substitutions, present conforming of bottom in layers not more achieve not less the cking in measurable in aninitial lead of strutting etc. comple rate includes the ains, pipes, water material conformations, pipes, p	masonry andall types of tc. for depths/ lifts ng/ trimming the sides, tation, backfilling in ing, compacting to achieve elevant IS, stacking in sposing withinan initial cluding shoring, strutting he rate includes the drains, pipes, water if any.  1,538,840.00  reaker, hammer, drilling, tructures, basements, eral building works in ths/lifts upto 1.5M, ms, manualdewatering, than 200mm thickness, en 97% Modified Proctor heaps for future use 150m as directed, plete asdirected by handling/supporting the			



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount		
11	R2-CS-EW-18	3,007.00	INR	CUM	500.000	1,503,500.00		
	Excavation by using splitters over areas for basements, roads, land/plot developement etc. in hardrock, reinforced concrete, Bituminous macadam for all depths/lifts, including manual dewatering, filling the selected excavated earth at the locations as directed, in layers not more than 200mmthickness, watering, consolidating, compacting to achieve not less then 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 if any.							
12	R2-CS-EW-7-A	127.00	INR	CUM	440.000	55,880.00		
12					W 06 for lift from 1.			
13	R2-CS-EW-7-B	227.00	INR	CUM	140.000	31,780.00		
					W 06 for lift from 3m	•		
14	R2-CS-EW-7-C	327.00	INR	CUM	90.000	29,430.00		
	Extra over the	e items CS	EW 03	to CS E	N 06 for lift from 4.			
15	R2-CS-EW-7-D	427.00	INR	CUM	50.000	21,350.00		
	Extra over the	e items CS	EW 03	to CS E	N 06 for lift from 6.			
16	R2-CS-EW-7-E	528.00	INR	CUM	60.000	31,680.00		
	Extra over the	e items CS	EW 03	to CS E	W 06 for lift from 7.	.5m to 9.0m.		
17	R2-CS-EW-7-F	628.00	INR	CUM	10.000	6,280.00		
	Extra over the	e items CS	EW 03	to CS E	W 06 for lift from 9.	.Om to 10.5m.		
18	R2-CS-EW-13	715.00	INR	SQM	150.000	107,250.00		
	for all depths charge by incl	s as per s Luding wal	pecific ling, s	ations/ truts,o		_		



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
19	R2-CS-EW-16	343.00	INR	CUM	4,770.000	1,636,110.00			
	Excavation over areas for basements, roads, land/plot developement in soft/ disintegrated rock, sandstone, stiff clay, gravel, cobblestone, hard laterite, water bound macadam, wet mix macadam, pitching, soling, paths and hardcore, lime concrete, plain cement concrete, stone masonry and alltypes of brick/ block masonry below ground level, rock boulders, etc. for all depths/lifts includingmanual dewatering, filling the selected excavated earth at the locations as directed, in layers notmore than 200mm thickness, watering, consolidating, compacting to achieve not less then 97% ModifiedProctor density conforming to relevant IS, stacking the selected material in measurable heaps forfuture 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 if any.								
20	R2-CS-DD-5-B	1,393.00		CUM	520.000	724,360.00			
	serviceable ma	one rubblaterial an	e mason d dispo	sal ofu	ally/ by mechanical m	meansincluding stacking of within 50 metres lead as			
21	R2-RW-7-10	82.00	INR	SQM	1,230.000	100,860.00			
	transportation	anywhere	as dire	cted.(T	face by using milling his item should be op to bedone more than 6	perated only when the			
22	R2-RW-1-01	180.00	INR	SQM	110.000	19,800.00			
	Scarifying the existing bituminous road surface to a depth of 15 cmremoving, including transportaion any where & bringing the existing road to proper grade, level &camber &/ as per super elevation, rolling with 10/12 Tonnes power roller & binding the scarifiedlayer with stone dust/grit/ sand,watering,brushing, rolling,etc. complete as specified as directedby the Engineer.								
23	R2-RW-1-05	9.27	INR	SQM	1,540.000	14,275.80			
	Levelling, wat	ess than	10 tonn	g to 95 es and 1	% Standard Proctor Depreparing the groundt	ensity with apower roller to the required grade and			

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## MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
24	R2-RW-1-09	1,535.00	INR	CUM	4,050.000	6,216,750.00			
	P/L a top layer of 15cm. compacted thickness of earth , rolling with 10/12 tonne power roller, watering etc. complete in conformity with the lines, grades & cross sections & camber super elevation (Lab C.B.R. in soaked condition shall not be less than 10) including clearing & grubbing the ground etc. complete (including stabilisation if necessary.) as per per prevailing MCGM specification for Roadworks clause no. 151.0								
25	R2-RW-2-21	2,547.00	INR	CUM	1,330.000	3,387,510.00			
	Providing & laying, spreading & compacting specified crushed stone ingranular subbase course including premixing the material in mechanicalmixer (pug mill or approved type), spreadingof mixed materialin uniform layer of 100mm to 75mm (compacted thickness each) withmotor grader or paver on prepared murum surface & compacting with 10tonne vibratory roller to achieve desired density including all material, labour, machinery, lighting barricading to all lifts & leadmaintenance of diversion etc. complete (metal gradation from 75mm to 75micron as per prevailing MCGM specification for Roadworkclause no.210).								
26	R2-RW-2-20	2,937.00	INR	CUM	2,110.000	6,197,070.00			
	Providing & laying, spreading & compacting gradedcrushed stoneaggregate to wet mix macadam satisfaction including premixing thematerial with water to OMC in mechanical mix (pug mill) carriage of mix material by tipper to site laying in uniform layer of 75mmto100mm(compacted thickness each)with sensor paver finisher onpreparedsubbase & compacting with vibratory roller (10 tonne) toachieve desired density including lighting, guarding barricading & maintenance ofdiversion etc. as directed by the Engineer, (Rebate for not usingsensor paver should be taken, (metal gradation from 53mm to 75mm micron as per prevailing MCGM specification for Roadwork clauseno.240).								
27	R2-RW-5-22	72.00	INR	SQM	7,620.000	548,640.00			
	R2-RW-5-22 72.00 INR SQM 7,620.000 548,640.00  Providing and applying PRIME COAT with CATIONIC BITUMEN EMULSION (SS) @12 to 15 Kg. of 10Sqmt. over prepared surface to receive bituminous mixby applying PRIMER with mechanical spray bitumen, including cleaning of road surface etc.completed, as directedFor HighPorosity surface & the primed surface shall be allowed to cure for atleast 24 hours or any other higher period, as is found to be necessary to allow all the moisture or volatiles to evaporate before anysubsequent bituminous surface treatment or mix is laid (As perprevailing MCGM specification for Roadwork Clause No. 313, curing as per 313.5)								



### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
28	R2-RW-5-23	33.00	INR	SQM	7,620.000	251,460.00			
	Providing and applying TACK COAT with CATIONIC BITUMEN EMULSION (RS) @0.2 to 0.25 Kg. of Sq.mt. over prepared surface to receive bituminousmix by applying TACK COAT with mechanical spray bitumen, including cleaning of road surface etc.completed, as directedFor NORMALBITUMINOUS SURFACES & the tack coat shall be left to cure until all thevolatiles have evaporated before any subsequent construction is started, which is indicated by change in colour from brown toblack (As per prevailing MCGM specification for Roadwork Clause No.314, curing as per 314.3.4)								
29	R2-RW-5-48	440.00	INR	SQM	7,620.000	3,352,800.00			
	the required l sensor paveret antistripping	ine,level c. comple agentat 1	,and car te as s % by we	mber ro pecifie ight of	lling with 10/12M.T.p	content ofgrade VG-30 to power ,vibratory roller & thickness of 50 mm. with mg II of "MORTH"(per			
30	R2-RW-5-50	8,797.00	INR	CUM	2.000	17,594.00			
	the required l sensor paveret with antistrip	ine,level c. comple pping agen	,and car te as s t at 1%	mber ro pecifie by weig	lling with 10/12M.T.p d and as directed to	content ofgrade VG-30 to power ,vibratory roller & the required thickness rading II of "MORTH"(As			
31	R2-RW-5-33	985.00	INR	SQM	7,620.000	7,505,700.00			
	P/L Mastic Asp MCGM specifica					2002.(As perprevailing			
32	R2-RT-16-33	662.00	INR	SQM	500.000	331,000.00			
	Providing and applying hot applied thermoplastic road marking materialwith glass beads extremely high skid resistance 2.5mm thick withoutprimer coat (tack coat) on asphalt road surface. All labour materials with special aggregates etc, as specified in B.S. part-I & II1989 and carrying out the marking on any road on center line and otherlane marking continuous for intermittent 10cm or 15cm width and also pedestrian crossings stripes as well as spraying furtherquality of glass beads of type II uniformly into a mono layer on to thehot paint line in quick succession of the paint spraying operation @ 250gms per sq.mt. area as directed and as per B.S./M.O.S.T.specification in White /Yellow colour.								
33	R2-RT-16-07	1,241.00		NOS	5.000	6,205.00			
		eft & lett	ering a	s per d	esign in white ortraf	Et or straight& right or Efic yellow as specified			



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
34	R2-RT-16-34	427.00	INR	NOS	250.000	106,750.00			
	Supplying/ fixing of Two Way Raised Pavement Markers made ofpolycarbonate moulded body and reflective panels with micro prismaticlens capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kg tested inaccordance to ASTM D 4280 Type H and complying to Specifications ofCategory A of MORTH Circular No RW/NH/33023/10-97 - DO III Dt 11.06. 1997 . The minimum reflective area of 13 SqCm on NOS side and theslope to the base shall be 35 +/- 5 degree. Fixing will be withoutnails but by using epoxy resin based adhesive as per manufacturer's recommendation including site clearance etc and complete asdirected by the engineer.'								
35	R2-CS-EW-26	2,231.00	INR	CUM	660.000	1,472,460.00			
	"Providing & Laying dry stone Rubble Soling with average 230 mm sizehard stone set in regular lines, handpacked and interstices thoroughlyfilled 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 directedby Engineer In Charge. (Note: The rate includes the royalty and other taxes if any)"								
36	R2-CS-CW-2-A- 2	6,764.00	INR	CUM	300.000	2,029,200.00			
	Providing & laying in position ready mixed PCC, using flyash & cementcontent as per approved design mix from Eng.incharge & flyashconforming to gradeI of IS 3812(Pt-1) only be used as part replacement of OPC as per IS456 & uniform blending with cement is to be ensuredin accordance with clauses 5.2 and 5.2.1 of IS456-2000 in the items of RMC & manufactured in fully automatic batching plant & transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for PCC, incl. pumping of R.M.C. from transit mixer to site of laying & curing, incl. cost of centering, shuttering & finishing, incl.cost of curing, admixtures in recommended proportions as per IS9103 to accelerate/retard setting of concrete, improve workability without impairing strength & durability as per direction of Eng.incharge. All works upto plinth level.								
37	R2-RW-10-29	7,055.00		CUM	nt content considered	564,400.00			
	approved R.M.C transported by etc. by contra	C.C.havi	ng avg. ncluding mixer & ter &ta	g use of placing the contract of the contract	f approved makesplast g at worksite, compac	procuredfrom M.C.G.M. cicizer/retarder & cting, finishing curing with hot bitumen as			

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# MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount		
38	R2-RW-10-63	436.00	INR	SQM	1,730.000	754,280.00		
	Extra Over Item of stencil concrete above M-20 in footpath :Providing, applying and finishing the top surface of M-20 concrete with stamp/stencil of approvedpattern and colour, in accordance with manufacturer's specification of any approved brand of colourhardener @ of 3.5kg/sq.m, including floating of colour hardened over concrete surface with differenttypes of floaters; including application of release agent @ of 0.15 kgs/sq.m, stamping over theconcrete surface with stamping tools; including cleaning of surface with water and cutting offinished concrete; including application of two coats of acrylic based sealer for finishing. Colourhardener and release agent shall be tested for abrasion resistance for a depth of wear, should notbe more than 0.025 mm. Coverage of sealer should not be more than 6.5 sq.m. per one litre coat; including cost of skilled manpower, cutting machine, sprayer and all tools tackies for allactivities; complete smooth & finish as per direction of Engineer-In-Charge							
39	R2-CS-CW-7-A	7,515.00	INR	CUM	600.000	4,509,000.00		
						cementconcrete for RCC		
	_		_			ng of concrete to site of		
		_		_	nishing & excl.rimt, e,retard setting of o	inc.admixtures in recom.		
		_			& durability as per	_		
	_	_	_	_	<del>-</del>	ot approved byEng.inCharge		
					nclude cost of allspe	ecified materials & cering & excl.rfmt which		
	_				<del>-</del>	sidered in this item is		
	_	_		_		extra will be paid nor		
	_					design asper specs for		
	controlled cor ofcolumns,raft			inci.Ce	ntering&Shuttering) F	oundations, footings, bases		
	orcordinis, rare	.b,piiccap						



### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
40	R2-CS-CW-7-B	10,518.0	INR	CUM	600.000	6,310,800.00			
Providing&laying in positionreadymixeddesignmix M20gr cement concretefor RCC work, using cement content as per appd designmix, incl.pumping ofconcretetosite laying&cost of centering, shuttering, finishing & excl.rfmt, inc.admixtures in proportions asper IS9103 toaccelerate, retard setting ofconcrete, improveworkabilitywithoutimpairing strength&durability as perdired Eng.incharge. Mixdesign as perparticular spec shall be got approved by Eng.inChargebefore execution of item. Rate shall includecostofallspecifiedmaterial&operationat all levels & ht, incl.cost ofcentering, shuttering& excl.rfmt whichshallbepaid under relvt. item. (Note Cementcontentconsidered in this item is @300 kg/cumasper IS456 table showingmin.cementcontent.No extra will be paid nor any amt will recovered on variation of cement in mixdesign asper specs for controlledconcrete). All works(incl.Centering&Shuttering) Walls									
41	R2-CS-CW-7-C	11,790.0	INR	CUM	shearwall,diaphragmwa 230.000	2,711,700.00			
	Providing&laying in positionreadymixeddesignmix M20gr cement concretefor RCC work, using cement content as per appd designmix, incl.pumping ofconcretetosite of laying&cost of centering, shuttering, finishing & excl.rfmt, inc.admixtures in resproportions asper IS9103 toaccelerate, retard setting ofconcrete, improveworkabilitywithoutimpairing strength&durability as perdirection Eng.incharge. Mixdesign as perparticular spec shall be got approved by Eng.inChargebefore execution of item. Rate shall includecostofallspecifiedmaterial&operationat all levels & ht, incl.cost ofcentering, shuttering& excl.rfmt which shall be paid under relvt. item. (Note Cementcontentconsidered in this item is @300 kg/cumasper IS456 table showingmin.cementcontent.No extra will be paid nor any amt will recovered on account variation of cement in mixdesign asper specs for controlledconcrete). All works(incl.Centering&Shuttering) Slabs, Suspended floors, roofs, landings, balconies, canopy and access platform								
42	R2-CS-CW-19	1,064.00	INR	CUM	490.000	521,360.00			
	Extra and over for providing richer RMC of M-40 grade cement concreteinstead of M20 (Note: - Cement content considered in this item is @ 360kg/cum as per IS 456 table showing minimum cement content.)								



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
43	R2-CS-CW-22-C	9,724.00	INR	CUM	90.000	875,160.00			
	Designing, providing & laying in any position, without usage of vibrator, ready mixed design mix Self Compacting Cement Concrete of required grade for Form Finished reinforced cement concrete work in super structure at all floor levels, using cement & flyash, content as required incl. transportation of concrete through transit mixer to site of laying for all leads, all floor levels, pumping of concrete to site of laying but excl.cost of centering, shuttering, inclu.admixtures conforming to IS 9103 as per designed proportions to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Eng.incharge. 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, but exclude the cost of centering, shuttering and reinforcement which shall be paid under relevant item. M-40 Grade SCC								
44	R2-CS-CW-30-A	300.00	INR	SQM	20.000	6,000.00			
		and remov			tes with M.S. Angles : Foundations,footir	includingstrutting, ngs, bases of columns,			
45	R2-CS-CW-30-B	558.00	INR	SQM	170.000	94,860.00			
	propping etc.	and remov	al of f	orm for	tes with M.S. Angles :Walls (any thicknes all, diaphragm wall e	ss)including attached			
46	R2-BW-3-11	281.00	INR	EA	30.000	8,430.00			
	wall/return wa	all with 1 a slope of	00 mm d 1V :20	ia PVC j		ncreteabutment, wing gh the full width of the plete as per drawing and			
47	R2-CS-CW-35-E	82,356.0 0	INR	TO	210.000	17,294,760.00			
	"Providing and fixing in position steel bars reinforcement of variousdiameters for R.C.C. pile, pile caps, footings, raft, retainingwall, 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 bendingschedules, including straightening, cutting, bending, hooking the bars, binding with wires or tack welding, supporting as required etc. allcomplete at all levels. Corrosion Resistant Steel (500 CRS D)"								

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PO Number: 4100077864

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
48	R2-BW-5-3-F	281.00	INR	SQM	1,770.000	497,370.00			
	Providing and applying protective paint consisting oftwo coats of coaltar epoxypaintover one coat of primerof approved quality and make tothe external surfaces of concrete structures to be buried under the soil etc. complete as specified and directed.								
49	R2-CS-SS-01	80,088.0	INR	то	10.000	800,880.00			
	sections and M fabrication dr Engineer), tra heights & at a bolts, nuts, w fixtures andor bending, cutti removing the w cleaning and a microns each a after fabricat complete asdir	MSPlates of cawings (wansporting all levels washers, coerations ing, drill welding buapplying tand two coerion inclusected by	f grade hich ar to sit includ leats, like pr ing,gri rr and wo coat ats of ding to Enginee	Fe 250 e to be e and e ing pro stiffen eheatin nding, prepari s of ep Epoxy C uching r In Ch	as per specification prepared by Contractor recting structuralster vision of necessary evers, gussets, base pages as per specification machining if specification of the painting oxy red oxide zincphoorrosion Resistant En	or and got approved from eel members for all erection bolts, fixing late, and all necessary ons, straightening, ed, welding, grinding and ng with wire brush osphate primer of 30 namel paint of 30 microns ng after erection etc			
50	R2-SWD-89	48,262.0 0	INR	EA	2.000	96,524.00			

the external portion of the manhole and the foundationconcrete in cement mortar 1:1

and supporting the incoming and outgoingpipes with brick masonry wherever

necessary, including 300 mm h



### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
51	R2-SWD-90	37,398.0 0	INR	MTR	1.000	37,398.00			
	Extra over item no R2-SWD-89 per meter depth above 2.30m and upto 5.0mincluding safety chain and extra Co-polymer polypropylene steelreinforced steps on either side of benching, etc complete as specified &as directed by Engineer in Charge.								
52	R2-SWD-182-A	14,504.0 0	INR	NOS	2.000	29,008.00			
	Supplying and fixing 0.56m internal dia D.I. air-tight hinged typecover and frame (weighing minimum 80 kg.) of material grade SG-500/7 asper IS 1865-1991with grade designation of C250 as per EN-124, specification no SP-SWD-3, including testing and inspection as perguidelines of IS specifications, including fixing with M-30 concreteand locking arrangement etc. complete as specified and as directed. as directed by Engineer in Charge.								
53	R2-SWD-81-A	7,366.00	INR	MTR	30.000	220,980.00			
	Description sa	me as ite	m no. Si	WD-76-A	, for Pipe Dia 900 mm	n (NP3 class)			
54	R2-RW-8-01	454.00	INR	MTR	110.000	49,940.00			
	including plug	ging of b	oth the	ends w	class, jointing, fil ith gunny bags, brick plete, as specified a	masonary in C.M. 1:4 with			
55	R2-RW-8-02	640.00	INR	MTR	110.000	70,400.00			
	including plug	ging of b	oth the	ends w	class, jointing, fil ith gunny bags, brick plete, as specified a	masonary in C.M. 1:4 with			
56	R2-RW-8-03	796.00	INR	MTR	380.000	302,480.00			
	including plug	ging of b	oth the	ends w	class, jointing, fil ith gunny bags, brick plete, as specified a	masonary in C.M. 1:4 with			
57	R2-RW-10-26			CUM	220.000	1,516,460.00			
	R2-RW-10-26 6,893.00 INR CUM 220.000 1,516,460.00  P/L ready mix cement concrete M-15cc having avg compressive strength18.5 Mpa for foundation/ encasement/ pavement/ cradle includingformwork, mixing in batching plant, compacting by internal & surface vibrator, curing, finishing etc. complete as specified & as directed bythe Engineer. Contractor has to make his own arrangement for water forcuring etc.& will not be paid separately for it.(MINIMUM CEMENT CONTENT 240 Kg/m³.)								



### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
58	R2-SWD-141	17,168.0 0	INR	EA	10.000	171,680.00			
	Constructing double water entrance of internal size 0.60m x 1.20m withcast-in-situ coping in M-20 grade, fixing gratings in M-20 as perstandard drawings (Dwg No. MCGM/SWD/2013-13), etc complete asspecified and as directed by Engineer in Charge. (excluding excavation, providing and fixing of gratings and frame)								
59	R2-SWD-142	11,641.0 0	INR	EA	5.000	58,205.00			
	coping in M-20 MCGM/SWD/2013-	grade, f 14), etc	ixing of complete	f grati e as spe	ng in M -20 as persta	x 0.60m withcast-in-situ andard drawings (Dwg No. ted by Engineer in Charge.d frame)			
60	R2-SWD-133	22,585.0 0	INR	MTR	20.000	451,700.00			
	foundation cha , fixing Ms gr inside with 12	nnel, bri ratings wi mm thicky ration and	ck maso th fram plaster as per	nry 230 e, R.C. 1:2. e the dra	mm thick in Cementmo C. runner beams, incl tc. complete as direc awing available in Dy	nce includingM-15 C.C.  Ortar 1:4, coping in M-20  Luding finishing the  Sted by Engineer-in-Charge  7.Ch.E.(S.W.D.) Citys			
61	R2-SWD-135-A	642.00	INR	MTR	30.000	19,260.00			
	entrances in l	ength as	per sta	ndard d	20 precast runners for rawings (Dwg No.MCGM) by Engineer in Charg				
62	R2-SWD-17-A	16,195.0 0	INR	CUM	1.500	24,292.50			
	Providing and laying RMC (Ready Mixed Concrete) M-25 grade RCC(Reinforced Cement Concrete) work in dhapas, beams and slabs, etc. withreinforcement between 0.8% to 1%, including curing by any means, providing, placing, removing, launching, cleaning, stripping the formwork, finished with cement sand plaster 12 mm thick in 1:2 proportion, etc. complete as directed by Engineer in Charge.								



### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
63	R2-SWD-176-A	17,084.0 0	INR	EA	1,540.000	26,309,360.00			
	Providing & Fixing 1.20m X 0.60m clear internal size of M.S. Galvanisedhinged type grating and frame (weighing minimum 130 kg) of gradeHD20, with minimum 75 microns zinc coating by hot dipped galvanising the MS grating and frame as per IS 2629. (The contractor shallfurnish the certificate of galvanising from the Galvaniser.) incudingtesting ,inspection of material sample and finished product as per IS standards and as per Standard Specification no SP-SWD-3and as per standard drawing , etc complete as specified & as directedby Engineer in Charge.								
64	R2-CS-SL-13	184.00	INR	KG	6,780.000	1,247,520.00			
	/ Fencing incl angles includi	uding fab ng painti	ricating	g the g	rill using M.S.square	design forcompound wall a / roundbar, flats and chromate primer and two detc. complete as			
65	R2-RW-3-22	157.00	INR	SQM	560.000	87,920.00			
	footpath & tra	ansporting be stacked	the same	me to w	_	from carriageway or re inMCGM limit. The paver complete as specified and			
66	R2-CS-DD-1	1,314.00		CUM	5.000	6,570.00			
	_			_	by mechanical means direction of Enginee	includingdisposal of er- in - charge.			
67	R2-RW-10-60	605.00	INR	MTR	1,410.000	853,050.00			
	Providing and fixing of the precast kerb stone of height 325mm., basewidth 165mm., top width 115mm.in M20grade RMCsupplied through MCGMapproved plant or concrete mixed with use of weigh batch mixers as detailed in drawingu/No.Dy.Ch.E./Rds/93/E.S. of17 /8 / 2005, excavation in any soil except rock, laying a leveling course of M 15grade RMC 100mm. thick, to required slope (inclusive of form work) jointing in C.M.1:2 proportion flush to concrete surface, paintingexposed surface with one coat of primer and two coats of 1st grade roadmarking paint in the yellow/white/black or any shade as directed.(Kerbstones shall be procurred from MCGM registered agencies).								

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## MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
68	R2-RW-10-61	471.00	INR	MTR	500.000	235,500.00			
	Providing and fixing of the precast tapered water table of thicknessvarying from 105 to 125 mm., 300mm. Width in M 20grade RMC (Suppliedthrough MCGMapproved plant) or concrete mixed with use of weigh batch mixers as detailed in drawing No.DyChE/Rds/94/E.S. dated17.8.2005 inclusive of excavation in any soil except rock, laying ofleveling course of M 15 grade RMC 100mm. thick to required slope, (inclusive of form work) jointing in 1:2 cm. prop. flush to concretesurfaces as directed (Watertables shall be procurred from MCGMregistered agencies).								
69	R2-RW-4-07	398.00	INR	MTR	90.000	35,820.00			
	cm .thickinclu	udingfilli	ng in t	he join		20 cementconcrete bed 15 ment pointing , curing			
70	R2-RW-7-17	50.00	INR	MTR	50.000	2,500.00			
	single coat of	approved by wire b	brand p	rimer a	fter cleaning of old	e -I in 3- coats including surface of kerb stone satisfaction of Engineer			
71	R2-RW-6-03	1,151.00	INR	EA	2.000	2,302.00			
	Raising or lowering circular manholes to the required level upto 20 cm.including all material, form work etc. with 16 cm. thick cementconcrete M-15 (1:2:4) c.c. coping under frame and cover of manhole, including curing etc. completeas specified and as directed.								
72	R2-RW-6-04	801.00	INR	EA	2.000	1,602.00			
		ed level,	upto 20			ce box/gullytrap chambers curing etc. complete as			



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
73	R2-CS-PS-169- C-1	22,257.0 0	INR	EA	20.000	445,140.00			
	Constructing brick masonry inspection chamber in cement mortar 1:4 ( 1cement : 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 : 8graded stone aggregate 40 mm nominal size), inside plastering 12 mmthick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mmnominal size) finished with a floating coat of neat cement complete as per standard design Inside size 120x90 cm and 90 cm deepincluding 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) :With common burnt clayF.P.S. (non modular) bricks of class								
74	designation 3.	2,297.00	INR	EA	7.000	16,079.00			
	including all	materials rame & co	,form w	ork, br	les to the required lick work and with 16 including curring etc	_			
75	R2-HE-8-24	1,452.00	INR	NOS	3.000	4,356.00			
	Removing and refixing of existing S.P. fire hydrants for replacing of mouth piece, duck foot bend, Sluice valve, as required as per specifications & drawing but including painting the hydrant, fixing the saddle piece, supplying and jointing the same with spun yarn, molten lead, including caulking etc. complete as directed & as specified by Engineer In Charge. (as per IS: 908) Note:1) The new material required, will be paid separately on the basis of weight per kg of material.2) The cost of constructing valve chamber will be ely.  3) Rebate for salvation cost of existingmaterial replaced will be taken at the rate of Rs 25/Kg Basic rate for new material  a) CIRs 55 /kg  b) DI Rs 161/kg  c) MS Rs 84 /kg								
76	R2-HE-8-25	15,104.0 0	INR	NOS	1.000	15,104.00			
	Removing of existing S.P. fire hydrants and replacing them with new SP fire hydrants with its complete assembly including supplying and jointing the same with spun yarn, molten lead, including caulking etc. complete as directed & as specified by Engineer In Charge. (as per IS : 908). Note : The salvage value for old fire hydrant has been considered on per Kg basis.								
77	R2-RW-7-01	881.00	INR	EA	10.000	8,810.00			
	Removing & ref etc. in M-10 c	_			<del>-</del>	rds/street name boards			

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## MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount		
78	R2-RW-7-02	197.00	INR	EA	1.000	197.00		
	Removing traff complete, as d		tory bo	ards/bu	sstop boards with bra	ackets etc., toWard Chowky		
79	R2-RT-16-08	22,712.0	INR	NOS	4.000	90,848.00		
	Providing, fabricating & erecting Street Name Board (type 2S-A-1) asper the design incorporated in the catalogue of street Furniture(Volume-II) Published by M.C.G.M. Vertical pole shall Hot dip galvanised M.S. Square pipe of size 75x75x3.5mm thk. Signage plaque (box)shall be Hot dip galvanised M.S. angle frame covered with 4mm thkaluminum composite panel. The signage plaque shall be fixed to the vertical pole with 40x10mm thk size MS support plate. Both the boxesshall be pasted with MICRO PRISMATIC GRADE retro reflective base sheetson both sides conforming to Type XI standards of I.R.C.67 2012 CODE. Letters or borders to be pasted using transparent electrocuttable film. The reflectivity of sheet shall have guarantee of 10years, the reflection count shall not be less than 80% of its original reflection after 10 years. The vertical pole shall be fixed to the ground by means of a properly designed foundation of size750x750x900mm.							
80	R2-RT-16-15	35,459.0 0	INR	NOS	4.000	141,836.00		
	Providing, fixing & erecting on site Junction Name Board / Chowk (type2S-D), as per the design incorporated in the catalogue of streetFurniture published by M.C.G.M., Vertical pole shall be Hot dipgalvanised M.S. Square pipe of size 100mm x 100mm x 3.5mm thick.Signage plaque (box) shall be of size 900mm x 900mm made of M.S.L angleframe of size 50mm x 50mm x 6mm thick covered with4mm thick aluminum composite panel on both sides, The box shall be pasted with MICROPRISMATIC GRADE retro reflective base sheets on both sides conformingto Type XI standards of R.C. 67 2012 CODE. Letters or borders to be pasted using transparent electro cuttable film. Thereflective of sheet shall have guarantee of10 years. The refectioncount shall not be less than80% of its original reflection after10 years. The vertical pole shall be fixed by means of a properly designedfoundation of size 750mmx750mmx900mm.							



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount		
81	R2-RT-16-25	6,469.00	INR	NOS	10.000	64,690.00		
	Mandatory Board (600mm dia) hanging on pole - Providing, Fabricating, Erecting on site Mandatory & Cautionary Boards (of type 1S-A-3). As perthe design incorporated in Street Furniture catalogue volume-II published by M.C.G.M., Signage plaque (box) shall be of size600mm dia. Mounted on existing electrical pole with GL clamp. The boxshall be made of4mm thick fibre reinforced plastic box covering both sides of pole. The cirCUMferential edge shall be closed with 3 mmthick FRP. The box shall be pasted with MICRO PRISMATIC GRADE retroreflective base sheets on both sides conforming to Type XI standards of I.R.C. 67 2012 CODE. Letters or borders to be pasted onthis box using transparent electro cuttable film. The reflectivity ofsheet shall have guarantee of10years. The reflection count shall not be less than 80% of its original reflection after10years shownin the drawing complete as per specification and as directed by theEngineer.							
82	R2-RW-10-37	471.07	INR	MTR	10.000	4,710.70		
	Providing and fixing of the precast TREE GUARD KERB of M-20 C.C. ofheight 230mm., width 100mm., Length 400mm., finished neatly, compacting, curing, formwork etc. including bedding of M-10 C.C.procured from M.C.G.M.approved R.M.C. plant, 10cm. thick, filling of jointing inC.M. 1:2 and painting the exposed surface with 3 coats of road markingpaint, Grade I of approved colours and quality including single coat of approved brand primer including excavation in C.C., asphalt etc. as specified and as directed.							
83	R2-RW-7-33	2,235.00		SET	50.000	111,750.00		
	of size 1150 x	acing in 3	position mm and	cover		rade R.C.C. pre-cast frame 0750x75mm in line & level d manufacturer etc.		
84	R2-RW-10-28	1,905.00	INR	CUM	2,360.000	4,495,800.00		
	GRADING of TAE	BLE 100.10	f MCGM	road sp	SAND Corresponded to ecificationsforroadwo c. complete as direct	orks in trenches upto		
85	R2-RW-7-05	211.00	INR	CUM	20.000	4,220.00		
	Cutting down existing stone/ brick masonry compound walls, abutments, piers, wing-walls etc. including stacking the rubble, khandkiesetc. in stack, as directed(Actual volume of structure will be paid.)							
86	R2-CS-MW-19	5,429.00	INR	CUM	60.000	325,740.00		
	including leve	eling up w ggregate	ith cem 20mm no	ent con minal s	ize)at window sills,	oove plinthlevel , nt : 6coarse sand : 12 ceiling level and the		



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
87	R2-CS-MW-35	3,065.00	INR	CUM	60.000	183,900.00			
	Providing colcrete masonry with free Municipal rubble for foundations and superstructures in cement and sand grout of 1:3 by weight withstone facing on both sides, including the cost of racking of joints wherever necessary curing etc. complete as directed.								
88	R2-CS-PL-38-B	244.00	INR	SQM	220.000	53,680.00			
	locations in c	ement mor	tar 1:2	, inclu	ding raking of joints	work at allheights and supto the depth of 15mm, directed by Engineer In			
89	R2-CS-PL-39	378.00	INR	SQM	1,930.000	729,540.00			
	and locations	in cement	mortar	1:2, i	ncluding raking ofjoi	sonry work atall heights Ints upto the depth of te as directed by Engineer			
90	R2-CS-PN-10	203.00	INR	SQM	1,640.000	332,920.00			
	waterproof acr per manufactur height from gr	rylic base ers speci- coundlevel inting by	d textu ficatio and at any ap	red extens to to all loop	erior paint of anapprextured sand faced or cations as directed in means, scaffolding, o	orimer, andtwo coats of coved make and colour as cother surfaces, upto 10m including preparing cleaning and curing etc.			
91	R2-CS-PN-8	180.00	INR	SQM	2,600.000	468,000.00			
	Providing and applying first single coat of approved primer and twocoats of waterproof cement paint of an approved make and colour as permanufacturers specifications to any surface, upto 10m heightfrom ground level and at all locations as directed including preparingsurfaces for painting by any approved means, scaffolding, cleaning andcuring etc. complete as directed by Engineer-in-charge.								
92	R2-CS-PN-12-A	177.00	INR	SQM	270.000	47,790.00			
	R2-CS-PN-12-A 177.00 INR SQM 270.000 47,790.00  Providing and applying first single coat of approved primer and twocoats 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 alllocations as directed including preparing surfaces for painting by anyapproved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge. By using acrylic based exterior paint								



### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
93	R2-CS-EW-11	183.00	INR	CUM	720.000	131,760.00			
	"Filling in plinth, floors, trenches, pits with approved excavatedmaterials, murum / good earth in layers not exceeding 200mm includingbreaking of clods, watering, consolidating each layer in filled up area by rolling and compacting with roller/plate compactor asrequired to achieve not less than 97% modified proctor densityconforming to relevant IS etc. complete as directed by Engineer In charge.Note:1) The rate includes the royalty and other taxes if any."								
94	R2-CS-EW-12	1,244.00	INR	CUM	1,680.000	2,089,920.00			
	"Filling in plinth, floors, trenches, pits with approved contractor smurum in layers not exceeding 200mm including breaking of clods, watering, consolidating each layer in filled up area by rolling and compacting with roller/ plate compactor as required to achieve notless than 97% modified proctor density conforming to relevant IS etc.complete as directed by Engineer In charge. The rate includes necessary soil testing charges at laboratory & field as per relevantI.S. codes, royalty, octroi and other taxes if any. (Note: Borrow areasselected by CONTRACTOR shall be got approved from Engineer In Charge, before executing the work)1) The rate includes theroyalty and other taxes if any."								
95	R2-CS-CW-62	5,901.00	INR	CUM	10.000	59,010.00			
	stone of maxim	num size o tering co	f 150 m st,seig	m laid niorage	<del>-</del>				
96	R2-CS-EW-28	1,391.00	INR	CUM	20.000	27,820.00			
	regular lines,	intersti	ces bei	ng fill		pal rubblehand set in es of stones, throughly specified.			
97	R2-GW-8-7	1,870.00	INR	NOS	7.000	13,090.00			
	alongwith the	rootstock	,dispos	e off a	angerous tree having ll the tree cutingmat signated place	girth below2' along with terial out of MCGM			
98	R2-GW-8-8	4,006.00	INR	NOS	7.000	28,042.00			
	Removal of easily accessible fallen/dangerous tree having girth between2' to 5' along with the rootstock, dispose off all the tree cutingmaterial out of MCGM jurisdiction by the contractor at diesignated place								
99	R2-GW-8-9	14,022.0 0	INR	NOS	4.000	56,088.00			
		dispose o	ff all	the tre		girth above5'alongwith tof MCGM jurisdiction by			



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
100	R2-GW-8-10	2,322.00	INR	NOS	11.000	25,542.00			
	Removal of non accessible fallen/dangerous tree having girth below 2'alongwith the rootstock, dispose off all the tree cuting material out of MCGM jurisdiction by the contractor at diesignated place								
101	R2-GW-8-11	8,608.00	INR	NOS	12.000	103,296.00			
	alongwith the	rootstock	dispos,	e off a	erous tree having gir ll the tree cuting ma signated place	th between 2'to 5'			
102	R2-GW-8-12	25,825.0 0	INR	NOS	5.000	129,125.00			
		ose off a	ll the	tree cu		th above5'alongwith the MCGM jurisdiction by the			
103	R2-GW-8-15	4,337.00	INR	NOS	9.000	39,033.00			
	Transplantation of trees below 2' girth at same location, digging ofpit of appropriate size, Pruning of tree, watering to the tree oneday prior to transpanting date, escavatin arround the root zone without desturbing critical root zone area, removal of root ballalongwith Soil ball, tying of jute bag arround root zone, Making slurryof RHE CDM in the pit before transpant, Panting of Removed tree in the prepaired pit, Imidieate watering, watering till 6 Month.Despos off tree cuting material out of MCGm jurisdiction at designatedplace.								
104	R2-GW-8-16	10,088.0 0	INR	NOS	9.000	90,792.00			
	Transplantation of trees between 2' to 5' girth at same location, digging of pit of appropriate size, Pruning of tree, watering to thetree one day prior to transpanting date, escavatin arround theroot zone without desturbing critical root zone area, removal of rootball alongwith Soil ball, tying of jute bag arround root zone, Makingslurry of RHE CDM in the pit before transpant, Panting of Removed tree in the prepaired pit, Imidieate watering, watering till 6Month. Despos off tree cuting material out of MCGm jurisdiction atdesignated place.								
105	R2-GW-8-17	15,125.0 0	INR	NOS	6.000	90,750.00			
	Transplantation of trees above 5' girth at same location, digging ofpit of appropriate size, Pruning of tree, watering to the tree oneday prior to transpanting date, escavatin arround the root zone without desturbing critical root zone area, removal of root ballalongwith Soil ball, tying of jute bag arround root zone, Making slurryof RHE CDM in the pit before transpant, Panting of Removed tree in the prepaired pit, Imidieate watering, watering till 6 Month.Despos off tree cuting material out of MCGm jurisdiction at designatedplace.								



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
106	R2-GW-8-18	6,705.00	INR	NOS	6.000	40,230.00			
	Transplantation of trees below 2' girth at distant location, digging ofpit of appropriate size at site alloted by site incharge, Pruning offree, watering to the tree one day prior to transpantingdate, escavatin arround the root zone without desturbing critical rootzone area, removal of root ball alongwith Soil ball, tying of jute bagarround root zone, Making slurry of RHE CDM in the pit before transpant, Panting of Removed tree in the prepaired pit, Imidieatewatering, watering till 6 Month. Despos off tree cuting material out of MCCGm jurisdiction at designated place.								
107	R2-GW-8-19	14,824.0 0	INR	NOS	6.000	88,944.00			
	Transplantation of trees between 2' to 5' girth at distant location, digging of pit of appropriate size at site alloted by site incharge ,Pruning of tree , watering to the tree one day prior to transpanting date, escavatin arround the root zone without desturbingcritical root zone area, removal of root ball alongwith Soil ball, tyingof jute bag arround root zone, Making slurry of RHE CDM in thepit before transpant, Panting of Removed tree in the prepaired pit ,Imidieate watering, watering till 6 Month. Despos off tree cutingmaterial out of MCGm jurisdiction at designated place.								
108	R2-GW-8-20	19,861.0 0	INR	NOS	3.000	59,583.00			
	Transplantation of trees above 5' girth at distant location, digging ofpit of appropriate size, Pruning of tree, watering to the tree oneday prior to transpanting date, escavatin arround the rootzone without desturbing critical root zone area, removal of root ballalongwith Soil ball, tying of jute bag arround root zone, Making slurryof RHE CDM in the pit before transpant, Panting of Removedtree in the prepaired pit, Imidieate watering, watering till 6 Month.Despos off tree cuting material out of MCGm jurisdiction at designatedplace.								
109	FA-RW-278-04	2,016.00	INR	MTR	22,950.000	46,267,200.00			
	depths, as per sand, clay, so	direction oft rock, el casing	s of En hardroc and wit	gineer : k, bould	Incharge in all types ders (at 1.5m X 1.5 r	zontal up to specified s all soils/ obstructions, c/c spacing) including grouting, all plants,			



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount		
110	FA-RW-278-05	12,872.0 0	INR	CUM	250.000	3,218,000.00		
	admixture (cek pipe from bott after cleaning	pex100 ore com upward g and flus	quivale under hing ho	nt) with gravity le with	till uncontaminated of compressed airinclude	at and non-shrink nt ratio of 0.4 by grout grout starts flowing back ding providing, supply, tools,wastage, etc.		
111	FA-RW-278-10	918.00	INR	SQM	3,080.000	2,827,440.00		
	tools, tackles belowMechanica	s etc.comp ally woven $-100 \times 1$	lete as hexago 20 mmMe	direct nal sha sh Wire	ed and the material o ped wire mesh Heavy 2 dia: 2.7mm/ OD 3.7mm	_		
112	FA-RW-278-11	760.00	INR	SQM	1,125.000	855,000.00		
	Providing and labors, tools	_	_	Erosion	Control Blanket ind	cluding all equipment,		
113	R2-BW-6-7	4,190.00	INR	SQM	1,300.000	5,447,000.00		
	slopes on which through the vo	ch pitching oids of th	g is la e stone	id to pa	revent escape of the	locks as well as to allow		
114	R2-CS-SS-02	80,216.0	INR	TO	1.300	104,280.80		
	Providing, detailing, fabricating and fixing built up sections at desired location using MS Platesof grade Fe 250 as per specifications and approved fabrication drawings (which are to be prepared byContractor and got approved from Engineer), erecting structural steel members for all heights & atall levels including provision of necessary erection bolts, fixing bolts, nuts, washers, cleats, stiffeners, gussets, base plate, and all necessary operations like preheating as per specifications, straightening, bending, cutting, drilling, grinding, machining if specified, welding, grinding andremoving the welding burr and preparing surface for painting with wire brush cleaning and applyingtwo coats of epoxy red oxide zinc phosphate primer of 30 microns each and two coats of EpoxyCorrosion Resistant Enamel paint of 30 microns after fabrication including touching up with spraypainting after erection etc complete as directed by Engineer In Charge.							

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Date: 24.05.2022



### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount			
115	R2-CS-DD-13-B	1.00	INR	KG	12,000.000	12,000.00			
	"Dismantling steel work in single sections including dismemberingandstacking within 50 metres lead in: Channels, angles, tees, square bar,flats, tubes"								
116	FA-RW-175-03	15,073.0	INR	NOS	510.000	7,687,230.00			
110	TA RW 173 03	0	11110	1105	310.000	7,007,230.00			
	Providing and fixing steel anchor dowel bars for rock anchoring including drilling holes 115 mm diain hard rock, providing and placing in position dowel bars of 25 mm dia 6 m in hard rock withhexagonal nut, 200mm* 200mm*10mm size washer plate, coupler for connecting bars and full effectivelygrouting 115 mm diameter anchor hole with cement mortor grout 1:3 by volume with non-shrinkadmixture (cebex 100 or equivalent) & using quartz sand with maximum water cement ratio of 0.4 bygrout pipe from bottom upward till uncontaminated grout starts flowing back after cleaning andflushing hole with compressed air including providing, supply, transportation, cost of allmaterials, labour, admixtures, tools, wastage, etc. complete. (grout shall be filled in the holefirst and bars inserted and pressed in drilled hole.)								
117	R2-CS-CH-2	387.00	INR	SQM	3,000.000	1,161,000.00			
	width 1200 to minimum 40mm of coulders, brack including stee accessplatform centre, horizon M.S. tube chall platform etc. including provide avoid damage the scaffolding systems create adjustable provide adjustable provide above ground incovering to proper prevent all deatground level area of the scaffolding systems.	1500mmlar liameter, kets for a langle on sof meta and maint vision of ge, includ to be sund the son the level . The cotect arc or is fallicoevering folding	gely from with back project recently a clamps aining rubber in tably illy at exterious e rate thitecturing onto gethe poshall besired.	ged metales stands ar pipe mber plades jo andsta it in a inserts so ladd braced at the operated the paral detales are measured emeasura	ding using H frames of esfixed or adjustable oint pins, pulleysand bracings at adequate anks of span not except the service able condition to pipe ends at point ers with intermidiate and anchored to to the ning in walls using of building structure, so provision of high deails on the entire buyement required and to to the ning in walls.	e with necessary clamps, dother accessories intervals, eeding 1.5 metre centre to system with M.S. Tubes, scaffolding for working a for execution of work at ofcontact with tructure e platforms. The building using support vertical and horizontal upto 25 metre height, ensity plastic sheets wilding facea nylon net to			



NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount	
118	FA-RW-175-02	759.00	INR	SQM	100.000	75,900.00	
	Guniting in the proportion of 1:3.5 (C.S.) etc., to an average thickness of 50 mm including removingall loose or cracked stone from the site and roughening the same to prepare them to receive gunitetreatment and as directed, including rendering smooth the gunited surface as in the above items						
119	R2-BW-6-11	4,072.00	INR	CUM	1,950.000	7,940,400.00	
	Gabian Structure for Erosion Control, River Training Works andProtection works (Providing and constructing gabain structures forerosion control, river training works and protection works with wire crates of size 2 m x 1 m x 0.3 m each divided into 1m compartments bycross netting, made from 4 mm galvanised steel wire @ 32 kg per 10 sqmhaving minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into meshwith double twist, mesh size not exceeding 100 mm x 100 mm, filledwith boulders with least dimension of 200 mm, all loose ends tobe securely tied with 4 mm galvanised steel wire)						
120	R2-CS-DD-75	47.00	INR	SQM	2,440.000	114,680.00	
	Removing or destroying plants etc. growing on walls, drainage pipes, destroying roots by applying approved weedicide & reinstating the wallsurface by plaster to the damage surface of the building						
121	R2-CS-CH-1	103.00	INR	SQM	1,740.000	179,220.00	
	Gently cleaning the surface of stone masonry and piers with specializedwater misting techniques employing air water jet using a fine nozzlesprinkling system calibrated to spray fine mist along the stone surface without over wetting followed up by gentle brushing withsoft nylon brushes and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc.as specified. Gentle surface cleaning may include using water misting and mildpH balanced surfactants as specified for indicated areas to remove the surface dirt, grit accretions by means of water misting and cleaning etc. complete as directed by the Engineer in Charge. (The rateis inclusive of all materials & labours involved except scaffolding).						
122	R2-CS-CH-3	107.00	INR	SQM	1,740.000	186,180.00	
	Applying breathable, non-reactive, antifungal, and water repellantSilane/ Siloxane chemical as approved by Archaeological Survey ofIndia/ Engineer-in-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One partof approved chemical :12 Part of Turpentine oil), on the existing sandstone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per directionof Engineer-In-charge (The rate is inclusive of all materials & laboursinvolved except scaffolding).						



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NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount	
123	R2-CS-CH-5	217.00	INR	SQM	1,740.000	377,580.00	
	Ruled /Flush pointing on White/Red sand stone masonry surface withlime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {Onelime: 1.5 surkhi (50% red and 50% light yellow surkhi ):1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding).						
124	R2-CS-CH-6	45.00	INR	SQM	1,740.000	78,300.00	
	Providing and applying antifungal wash treatment using 3% solution of sodium pentachlorophenate, of reputed brand and manufacturer, oncleaned sand stone surfact at desired locations as per direction of Engineer-in-charge (The rate is inclusive of all materials & laboursinvolved except scaffolding).						
125	FA-RW-175-01	152.00	INR	KG	5,780.000	878,560.00	
	Injecting lime grout into stone with organic additives, as per direction of Engineer In-charge. Grouting should be done at required pressures by drilling and inserting 12mm dia PVC multiperferatednipples upto 30mm to 40mm depth, using appropriate sealing around the nipple cutting of nipplesafter curing, cleaning etc complete. This item shall be paid on actual consumption of lime used inKgs.						
126	R2-GW-1-5-A	364.00	INR	NOS	24.000	8,736.00	
	Digging of Pit having size 1Mtr.x 1Mtr.x1Mtr. on soft surface likesoil, Murum.Loading and unloading and Transporting Excavated materialform site out of Juricdiction of MCGM Or at site designated bysite incharge						
127	R2-GW-7-9	1,058.00	INR	CUM	20.000	21,160.00	
	Red hill earth free from graass, stones, rubbles redish in colour passthrough 5 mm sieve						
128	R2-GW-7-10	1,055.00	INR	CUM	10.000	10,550.00	
	Cow dung Mannure should be bownish in colour free from grass, free frompest and disease imidietly treated with pesticide and fungicides afterdelivery .						
129	R2-GW-7-14	793.00	INR	NOS	24.000	19,032.00	
	Filling of Escavatied Pit having 1Mtr. X 1Mtr.X 1Mtr. Size withEscavated soil, Red Hill Earth and Cow Dung Mannure in 1:1:1 proportionand pant a tree with Stacking and preperation of Tree Basin forproper Irrigation. Excluding cost of Tree.						
130	R2-GW-5-241	81.00	INR	NOS	3.000	243.00	
					disesaed free and frone in pollybag.	ree from anypest attack	
131	R2-GW-5-282	92.00	INR	NOS	3.000	276.00	
	Plant should be healthy ,well rooted ,disesaed free and free from anypest attack with suficient moisture around root zone in pollybag.						



### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount
132	R2-GW-5-248	86.00	INR	NOS	3.000	258.00
		_			disesaed free and fronce in pollybag.	ree from anypest attack
133	R2-GW-5-314	1,208.00	INR	NOS	3.000	3,624.00
		_			disesaed free and fron disesaed fron disesaed fron disesaed fron disesaed front disesaed disesae	ree from anypest attack
134	R2-GW-5-322	3,220.00	INR	NOS	3.000	9,660.00
					disesaed free and fron disesaed fron disesaed fron disesaed fron disesaed fron disesaed disesaed fron disesaed fro	ree from anypest attack
135	R2-GW-5-309	1,208.00	INR	NOS	3.000	3,624.00
		_			disesaed free and fron disesaed fron disesae	ree from anypest attack
136	R2-GW-5-261	86.00	INR	NOS	3.000	258.00
	Plant should be healthy ,well rooted ,disesaed free and free from anypest attack with suficient moisture around root zone in pollybag.					
137	R2-GW-5-324	776.00	INR	NOS	3.000	2,328.00
	Plant should be healthy ,well rooted ,disesaed free and free from anypest atta with suficient moisture around root zone in pollybag.					
138	R2-GW-7-24	166.00	INR	NPM	290.000	48,140.00
	Watering of tree @12 Lit. Per tree . Weeding, aplication of Fertilizersand pesticide as and when required, loosening of soil for maintainingthe porosity, stacking of tree. Removal of lower side shoots time to time for proper growth of the tree preparation of treebasins in a soil . If any casualty found same should be replaced without extra cost. Top dressing of 5 cm or 2.5 cm twice in a year with Mixture of RHE & CDM in 2:1 proportion, plants should be in healthycondition free from pest, disease attack. Including cosst of wateringand water.					

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### MUNICIPAL CORPORATION OF GREATER MUMBAI WORK ORDER

PO Number: 4100077864

NO	Activity No	Rate	Curr	Unit	Est. Qty	Est. Amount
139	R2-CS-CW-7-D	9,556.00	INR	CUM	50.000	477,800.00

Providing&laying in positionreadymixeddesignmix M20gr cement concretefor RCC work, using cement content as per appd designmix, incl.pumping of concrete to site of laying&cost of centering, shuttering, finishing & excl.rfmt, inc.admixtures in recom. proportions asper IS9103 toaccelerate, retard setting of concrete, improveworkability without impairing strength&durability as perdirection of Eng.incharge. Mixdesign as perparticular spec shall be got approved by Eng.inChargebefore execution of item. Rate shall include cost of all specified material & operation at all levels & ht, incl.cost of centering, shuttering& excl.rfmt which shall be paid under relvt. item. (Note Cement content considered in this item is @300 kg/cumasper IS456 table showing min.cement content. No extra will be paid nor any amt will recovered on acc. of variation of cement in mixdesign asper specs for controlled concrete). All works (incl. Centering & Shuttering) Lintels, beams, plint beams, girders, floor beam,

Total Amount 195,744,311.80

Rebate %	21.9-	152,876,246.29
Negotiation %	0	152,876,246.29
Base Amount(Excl. of Tax)		136,496,665.50
CGST		8,189,799.93
SGST		8,189,799.93
UTGST		
IGST		
Net Amount(Incl. of Tax)		152,876,265.36

Total Amount in Words:FIFTEEN CRORE TWENTY EIGHT LAKH SEVENTY SIX THOUSAND TWO HUNDRED SIXTY FIVE Rupees THIRTY SIX Paise Only

#### Authorised Signatory

coping.

- 1. Our Purchase Order No.must appear on all Invoice & correspondence.
- 2. Your GST Registration Details should be mentioned on all Documents.
- 3. Kindly submit Invoices in Duplicate alongwith Supplies.

#### Signature Valid

Digitally Signed By Manishkumar Morarji Patel Date: 24.05.2022



Username : MANISHKUMAR MORARJI

PATEL

Prepared By: RT-CT-SE- ( HEMANT LADDHA ) Date: 24.05.2022