BRIHANMUMBAI MUNICIPAL CORPORATION

Sr. S No.	Schedule Item No. R2-SE-1-1	sahakar nagar at service road of Eastern Express Highway, Chembur in M/W. Description Excavation for foundations, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in all types of soils, vegetable earth, soft murum, running sand, shingle, turf clay,	Total Qty 100.00		Rate	Total Cost
-		chambers, manholes, trenches, poles, pits & general building works in all		CuM		
1	R2-SE-1-1	chambers, manholes, trenches, poles, pits & general building works in all	100.00			
				Culvi	468.00	46800.00
		loam, peat, ash, shale, slag, chalk, garbage, muddy / marshy / slushy soil,				
		marine clay, reclaimed land etc. for depths/lifts upto 2.0 M measured from				
		the ground level, including dressing/trimming the sides, leveling and				
		ramming of bottoms, manual dewatering, removing rank vegetation,				
		backfilling in layers not more than 200 mm thickness, watering,				
		consolidating, compacting to achieve not less then 97% Modified Proctor				
		density conforming to relevant I-S, stacking the selected material in				
		measurable heaps for future use within owners space or disposing within an				
		initial lead of 150 m as directed, loading, unloading, leveling excluding				
		shoring, strutting etc. complete as directed by Engineer-in-Charge.Note:				
		1)The rate includes the handling/supporting the existing utilities such as				
		cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes applicable if any				
2	R2-SE-1-1-a	do-do- as per item R2-SE-1-1 for lift from 2m to 4m.	90.00	CuM	638.00	57420.00
3	R2-SE-1-1-b	-do-do- as per item R2-SE-1-1for lift from 4.0m to 6m	90.00	CuM	868.00	78120.00
		do-do- for lift from 6.0m to8m	30.00		1036.00	31080.00
		do-do- for lift from 8.0m to10m	20.00		1233.00	24660.00
-		do-do- for lift from 10m to 11m	10.00	CuM	1360.00	13600.00
7	R2-SE-1-1-j	Extra over above for item no. R2-SE-1-1 to R2-SE-1-1-a for relevant lift of	40.00	CuM	429.00	17160.00
		excavation in soft/ disintegrated rock, road carriageway, sand stone, stiff clay, gravel, cobblestone, hard laterite, water bound macadam, wet mix				
		macadam, asphalt mix carpet of any type, pitching, soling, paths and				
		hardcore, lime concrete, plain cement concrete, stone masonry and all types				
		of brick/ block masonry below ground level				
8	R2-SE-1-1-u	Extra over above for item no.R2-SE-1-1 toR2-SE-1-1-i for relevant lift of	110.00	CuM	2100.00	231000.00
		excavation in hard rock and reinforced concrete by chiseling for sewerage				
		works by manual operations, pneumatic breaker, hammer, driller, compress				
		or breaker, etc. including dressing/trimming the sides, leveling of bottoms,				
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9 F	R2-SE-1-1-ae	Extra over above for item no.R2-SE-1-1 to R2-SE-1-1-if or relevant lifts of	110.00	CuM	4970.00	546700.00
10	R2-SE-1-4-b	excavation in hard rock and reinforced concrete by splitter machine Providing and removing closed shoring and strutting in the trenches/pits for	20.00	CuM	8586.00	171720.00
'0 '	N2-3L-1-4-D	all depths as per specifications/drawings and or as directed by Engineer-in-	20.00	Culvi	0300.00	17 17 20.00
		charge by including walling, struts, open poling boards, horizontal sheeting,				
		runners, dog spikes by using timber etc.complete.				
	R2-SE-1-5-a	Leaving shoring in trenches. (New or old) including dog spikes.	10.00	CuM	15561.00	155610.00
12 F	R2-RW-10-27	Providing & laying M 10 c.c. For foundation / bedding including boxing,	10.00	CuM	6452.00	64520.00
12 [DO DW 40 00	curing etc. complete as specified and as directed.	10.00	CUM	6002.00	60000 00
		-dodo- M 15 c.c. For full encasement or cradle -dodo- Brick work with common burnt clay F.P.S. (non modular) bricks of class	10.00 10.00	CuM CuM	6893.00 5807.00	68930.00 58070.00
14 1	b	designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4	10.00	Culvi	3607.00	36070.00
	b	coarse sand)				
15 F	R2-CS-MW-1-	Brick work with common burnt clay F.P.S. (non modular) bricks of class	10.00	CuM	5584.00	55840.00
	С	designation 7.5 in foundation and plinth in: Cement mortar 1:3 (1 cement : 3)				
		coarse sand)				
16	R2-SE-4-3	Providing 20 mm thick cement plaster in cement mortar 1:2 including neat	10.00	CuM	376.00	3760.00
		cement rendering. (without water proofing compound)				
17	R2-SE-4-9	Providing 20 mm thick cement plaster in cement mortar 1:1 including neat	10.00	CuM	436.00	4360.00
10	D0 0E 5 0 6	cement rendering (without water proofing compound).	45.00		4400.00	64000 00
18	R2-SE-5-8-f	Providing and laying R.C.C. 600mm dia Pipes (NP3 Class) with rubber rings jointing etc. complete as specified and directed.	15.00	m	4132.00	61980.00
19	R2-SE-7-14	Dodo- 630 mm dia HDPE pipes of PE-80 grade and PN-6 class in vertical	1.00	no.	193961.00	193961.00
'	11Z-0L-7-14	drop of 1.2M -dodo- as in item No.SE-7-4	1.00	110.	130301.00	155501.00
20 F	R2-SE-7-14-a	Extra over above per additional metre depth -dodo- as per above item	2.00	MD	22644.00	45288.00
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21 1	R2-SE-6-2-b	Constructing on sewer brick masonry conical manhole 1.5 M. dia. at bottom	1.00	No.	90305.00	90305.00
		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				
		M.				
22	R2-SE-6-2-c	Extra for above manhole per metre depth above 2.3M and upto 5 M	3.00	MD	34099.00	102297.00
'		including safety chain and extra C.I. steps on other side of benchingdo-do	5.00	ا د	5.000.00	102201.00
23	R2-SE-6-2-d	Dodo- above 5 M & upto 9 M -dodo-	1.00	MD	48097.00	48097.00
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-	R2-RW-1-18	Levelling, watering & rolling by vibratory roller IDD-22 weighing not less than	50.00	Sq m	19.00	950.00
_		Supply & filling sand, metal GRAVELLY SAND Corresponded to CLASS II/	20.00		1905.00	38100.00
-	R2-RW-2-21	Providing & laying, spreading & compacting specified crushed stone in	10.00	CuM	2547.00	25470.00
27 I	R2-RW-2-22	Rebate for not using motor grader / paver for laying of Granular Sub base in	10.00	CuM	-93.00	-930.00
28 I	R2-RW-2-20	Providing & laying, spreading & compacting graded crushed stone	10.00	CuM	2937.00	29370.00
		agreegate to wet mix macadam satisfaction including premixing the material				
		with water to OMC in mechanical mix (pugmill) carriage of mix material by				
29 I	R2-RW-5-45	P/L hot Premix Dense bituminous macadam with 4.50% bitumen content of	50.00	Sq m	676.00	33800.00

30	R2-RW-5-40	P/L hot premix Bituminous concrete with 6.00% of bitumen grade VG-40,	50.00	Sq m	450.00	22500.00
		surface coat by mix design as per MORTH to the compacted thickness of		·		
		40mm, using new material to the required line, level and camber rolling with				
		power vibratory roller & sensor paver, etc. Complete as specified and as				
		directed with lime filler 2% by weight and anti stripping agent @ 1% of				
		bitumen by weight etc. complete (As per prevailing MCGM specifications for				
		Roadworks clause no.364)				
31	R2-RW-5-20	Providing and applying PRIME COAT with CATIONIC BITUMEN EMULSION	50.00	Sq m	57.00	2850.00
		(SS) @ 7 to 12 Kg. of 10Sqmt. over prepared surface to receive bituminous				
		mix by applying PRIMER with mechanical spray bitumen, including cleaning				
		of road surface etc. completed, as directed For Low Porosity surface & the				
		primed surface shall be allowed to cure for at least 24 hours or any				
		other higher period, as is found to be necessary to allow all the moisture				
		or volatiles to evaporate before any subsequent bituminous surface				
32	R2-RW-5-23	Providing and applying TACK COAT with CATIONIC BITUMEN EMULSION	50.00	Sq m	33.00	1650.00
		(RS) @ 0.2 to 0.25 Kg. of Sq.mt. over prepared surface to receive				
		bituminous mix by applying TACK COAT with mechanical spray bitumen,				
		including cleaning of road surface etc. completed, as directed For NORMAL				
		BITUMINOUS SURFACES & the tack coat shall be left to cure until all the				
		volatiles have evaporated before any subsequent construction is started,				
		which is indicated by change in colour from brown to black(As per New				.===
33	R2-RW-5-24	Providing and applying TACK COAT with CATIONIC BITUMEN EMULSION	50.00	Sq m	35.00	1750.00
		(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 cleaning of road surface etc.completed, as directed for DRY &				
		HUNGRY BITUMINOUS SURFACES (As per prevailing MCGM				
		specifications for Roadworks Clause No. 314)				
34	R2-SWD-15-A		5.00	Sq m	6764.00	33820.00
		cement concrete in foundation including boxing, curing by any means, etc.				
		complete as specified and/or as directed by Engineer-in-Charge.				
35	R2-RW-3-11	Providing & fixing 80 mm thick interlocking unishape concrete pavers	10.00	SqM	871.00	8710.00
		(monolithic- single layer precast concrete blocks) in grey cement in the		·		
36	R2-SE-12-13	Pumping out water from drainage trenches by 5 H.P. pump per shift of 8	20.00	Shifts	1995.00	39900.00
		hours.				
37	R2-SE-12-14	Pumping out water from drainage trenches by 10 H.P. pump per shift of 8	20.00	Shifts	2394.00	47880.00
•		hours.				
38	R2-RW-7.37	(a) To carry out total station survey of the road with reference to existing co-	1.00	upto	20182.50	20182.50
		ordinate system by establishing control stations by establishing temporary		500		
			Total Estimated cost =		Rs.	2477280.50
			Say		Rs.	24,77,281.00
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