Measurement Sheet Name of work-: Proposal for Replacement of Old Pali Inlet of PHR of size 750>600 from Junction of S.V. road & Hill road to Junction of Khar Pali road and Ambedkar road in H/West ward. Description Qty. Rate Per Amount R2-HE-8-27-a /2018 1 Cutting of exsisting cement concrete road upto specified depth by using Diamond Saw machine etc. complete in all respects and as directed by Engineer In Charge. Note: The charges for supplying water and electricity are exclusive of the rate worked out. a) Upto 350 mm depth of cutting 6067.00 1486 Rmt. 9015562.00 2 R2-RW-10-55 /2018 Excavation in reinforced OR pavement grade concrete M-20 & above by using modern machinery (poclain with rock breaker, etc.) including with stacking of excavated material within 150 mm ø radius etc. complete upto any depth as specified & as directed, by the Engineer. 2204.00 1525 Cum 3361100.00 3 R2-CS-EW-3/2018 Excavation forfoundation, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in soft/disintegrated rock, 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, rock boulders, etc. for depths/ lifts upto 1.5M measured from the ground level, including dressing/trimming the sides, leveling of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less then 97% Modified Proctor density conforming to relevant IS, stacking in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer-in-Charge. 2308.00 1154000.00 500 Cum 4 R2-CS-EW-1/2018 Excavation for foundation substructures upto 1.5 m etc as 18706.00 5742742.00 307 Cu.mt. 5 R2-CS-EW-2-a/2018 Extra over above item CS-EW-1 for lift from 1.5m to 3.0m 8553.00 71 Cu.mt. 607263.00 R2-HE-1-6/2018 6 Providing & Supplying, loading, transporting on site, unloading, lowering in trenches, assembling and jointing Ductile Iron pipes (K-9) including chamfering cut edges of pipes and specials and fixing with Styrene Butadiene Rubber (SBR) Ring Gaskets for following diameters (Tyton joint pipes). The pipe shall confirm IS: 8329 & SBR Ring Gasket shall confirm IS: 5382 & IS: 12820. The rate is inclusive of cleaning, flushing & testing of water mains upto 6 kg/sq.cm etc complete in all respect and as directed by Engineer in Charge (Pipe shall be coated with cement mortar lining from inside and zinc coating c) 150mm dia. 147.00 1689 R.mt. 248283.00 d) 250mm 88.00 3103 R.mt. 273064.00 e) 300mm 110.00 3679 R.mt. 404690.00 g) 600mm 333.00 10581 R.mt. 3523473.00 7 R2-HE-1-9 Cutting of cast iron and CI/DI pipes of all classes with cutting tools, cutting machine and chamfering the edges etc complete in all respect and as directed

by Engineer in Charge and for following diameters.

	c) 150 mm	8.00	469	Rmt	3752.00
	d) 250 mm	7.00	581	Rmt	4067.00
	e) 300 mm	8.00	743	Rmt	5944.00
	g) 600mm	17.00	1652	Rmt	28084.00
		17.00	1032	Kiiit	20004.00
8	R2-HE-6-1A/2018				
0	Providing and fixing CI Mechanical joint collars	cuitable for	: CI/DI nines	l	
	(dimensionally described in Table - 13 of IS : 13:			lina	
	rubber gasket of SBR (dimensionally described in				
	gland of CI and MS nut bolts zinc coated or othe				
	17	rwise prote	zied from rusu	ng etc	
	complete as directed by Engineer in Charge				
	c) 150 mm dia	15.00	5693	Each	85395.00
	e) 250 mm dia	10.00	10091	Each	100910.00
	f) 300 mm dia	8.00	13671	Each	109368.00
	k) 600mm	4.00	34821	Each	139284.00
	R2-HE-6-1/2018				
	Providing and fixing CI Mechanical joint split co			cracks/	
	leakages of CI/ DI pipes (Inclusive of Odd size p				
9	specifications complete with sealing rubber gask		•		
)	'T' bolts and nuts. The whole assembly mechanic			ted to	
	the provisions laid down in IS 1538/1993 or IS 13				
	applicable. This item includes dewatering of bod	y water clea	aning of pipe a	nd arre	
	Provision for leakages on existing main				
	c) 150 mm dia	4.00	12341	Each	49364.00
	e) 250 mm dia	2.00	19062	Each	38124.00
	f) 300mm dia	2.00	26361	Each	52722.00
10	R2-HE-2-1/2018				
	Supplying mild steel pipes to site of work / any n				
	ISI/ ISO certified company, from mild steel plate	s of approv	ed quality and		
	thickness, confirming to IS 3589 . The M.S plate	s shall be p	rocured only fa	rom	
	Jindal, TATA mettalics, SAIL, ESSAR or Ispat St	eel. The tes	st certificates a	nd	
	Challans from the manufacturer of plates shall be	submitted	to the corpora	tion.	
	The item includes marking, cutting, rolling bendi	ng, welding	g using automa	ıtic	
	submerged arc type welding machine, factory tes	ting of pipe	s, loading at		
	fabrication yard/ factory transportation to site of	work/ any n	nunicipal store	using	
	truck/ trailer, unloading and stacking near place of	of work etc	complete as sp	pecified	
	and as directed by Engineer in Charge Each pip	e shall be a	about 5 to 7.5 1	ntr.	
	long, fabricated as per IS:3589 and suitable for 1	0 kg/cm2 w	orking pressu	re(
	spirally				
	c) 150mm 6mm thick	42.00	1536	R.mt.	64512.00
	d) 250mm 6mm thick	34.00	2524	R.mt.	85816.00
	e) 300mm 6mm thick	52.00	3018	R.mt.	156936.00
	f) 450mm 6mm thick	27.00	4498	R.mt.	121446.00
	g) 600mm 6mm thick	36.00	5981	R.mt.	215316.00
	s) 750mm 10mm thick	2259.00	12370	R.mt.	27943830.00
11	R2-HE-2-9 /2018				
	Transporting within 500 meters, laying in position	on to the co	rrect line and	level,	
	M.S. pipes with/without any outcoating on p				
	including marginal cutting wherever required,	_	-		
	same. The rate to include loading, unloading,				
	specified and as directed by Engineer in Charge.	3,	1		
	Above 8 mm Upto 12 mm thick plate.				
	c) Above 500 mm upto 750 mm dia pipe	2259.00	1902.00	Rs/Rmt	4296618.00
			1,02.00	100/10mit	.2,0010.00
12	R2-HE-2-3				
	IND III D V	L			

	Supplying, transporting MS fabricated material of	n site, aligr	ning, fixing in		
	position, tack welding including marginal cutting	s, synthetic	Rubber packir	igs etc.	
	a) Minor fixtures such s man hole frame & cover				
	blank flanges, loose flanges, rings, small pieces t		•		
	platforms, stiffener rings etc. b) Major fixtures su				
	branches, flange ring assembling	acii as iccs,	domes, bends,	,	
	oranches, frange ring assembling		ı		
		2.00	68243.00	MT	136486.00
13	R2-WSP-5-27				
	Providing, fabricating, M.S. composite bends of r	equired dia	meter and shel	11	
	thickness. The rate to include procurement of M.	S. plates, tr	ansport, cuttin	g the	
	plates to the required size, rolling, tack welding,	assembling	in desired len	gths to	
	form composite bend, welding on automatic weld	ling machir	e or manually	and	
	forming 'V' edge with or without shoulder cut/roo	ot face to be	oth ends of the	:	
	composite bend. The rate shall also include trans	porting con	nposite bends	with or	
	without stiffener rings mounted on it, as required	, by adopting	ng suitable		
	transporting mEachns without any damage, from	the fabrica	tion factory to	the site	
	of work intact, including all loading and unloading		•		
	etc. complete as specified and directed by Engine				
	shall be paid separately as per quoted rates and si				
	1 1 2 1 1	19.00			1901165.00
		19.00	99535.00	MT	1891165.00
1.4	D4 WCD 4 4 B 1/4010				
14	R2-WSP-2-2-B-1/2018	<u> </u>	4 . **		
	Transporting within 500 mtrs. and laying in				
	level, M.S. specials with/without any out coating		_	_	
	bends, tapers, etc.as per specification on pedes		-		
	The rate to include loading, unloading, hoisting,				
	required, assembling and tack-welding, comple				
	Charge. The diameter mentioned below shall be	considered	as clear intern	ıal	
	diamater of pipe				
	8 mm. to 12 mm thick plate				
	i) From 750 mm. upto 1000 mm. dia. Pipe	100.00	2204.00	Rs/Rmt	220400.00
15	R2-HE-2-12				
	Field welding in all position with required number				
	internally and/or externally including gauzing wh		•		
	appurtenances and other accessories in connection				
	specification etc complete as specified and as dir	ected by Er	ngineer in Cha	rge.	
	c) 6 mm plate thickness Butt Joint				
		50.00	1418.00	Rmt	70900.00
	f) 10 mm thick plate				
	Butt Jointing				
		1200.00	2557.00	Rmt	3068400.00
16	R2-HE-2-13				
	Field welding in all position with required number	er of runs, f	or M.S. pipes		
	internally and/ or externally etc		- *		
	,	I	I	1	
	Lap Jointing with convex fillet weld				
	b) Leg length 6mm	27.00	601.00	D	1/227.00
	d) I as langth 10m;	27.00	601.00	Rmt	16227.00
	d) Leg length 10mm	144.00	010.00	D.	117740.00
		144.00	810.00	Rmt	116640.00
1.5	70.777.02	-			
17	R2-HE-2-14	<u> </u>	1 . 1		
	Gas cutting (either square cut or V cut) pipes, pla	ites etc. of t	thickness :-		
	b) above 5 mm up to 10 mm				
		1317.00	336.00	R.mt.	442512.00
18	R2-HE-3-6/2018				

. !	C1	ICI	1- C1 11 T)1-1-	
	Supplying, Loading, transporting on site, unloadi Flanged sluice valves of PN 1.0 conforming to IS				
	210-1978 FG-260 without Bevel gear arrangement				
	appurtenances (i.e. including two nos. of tail piec	_			
	packings etc., stacking the same as directed on si				
	positioning the same in true plumb and level with		•		
	live mains on CI / DI or MS water mains and for				
	PE and flange for following diameters. Note: Slu				
	supplied shall be as per the acceptance criteria of				
	specification.		8		
		2.00	100 6 7		105005.00
	d) 150 mm	3.00	42365	Each	127095.00
	f) 250 mm	2.00	79388	Each	158776.00
	g) 300 mm	3.00	99945	Each	299835.00
10	R2-HE-3-16/2018				
19		a buttanfler	valvas of DN	1.0	
	Supplying, loading, transporting on site, unloading conforming to AWWA C-504 in SGI- IS 186				
	appurtenances and flange adaptors, nuts, bolts,				
	the same as directed on site, hoisting, lowering				
	true plumb and level with tappers, saddles, br				
	MS water mains and for PE pipes along with Lon		~		
	following diameters. (Manually operated). The				
	conforms to AWWA C-219. Note: Butterfly val				
	materials shall be supplied as per the acceptance	_	_		
	specification.	CITICITA OI I	viccivi as give		
	_ ^	2.00	200015	F 1	770/20 00
	c) 600 mm	2.00	389815	Each	779630.00
	d) 750mm	2.00	611574	Each	1223148.00
20	D2 HE 4 2/2010				
20	R2-HE-4-2/2018	_::::	. 1:	£:	
	Making connection on live CI/DI main of various e) 150 mm x 150 mm (C/c + Diversion)	6.00	13883	Each	83298.00
	i) 250mm x 250 mm (C/c + Diversion)	6.00	24600	Each	147600.00
	n) 300 mm x 300 mm (C/c + Diversion)	8.00	31529	Each	252232.00
	ii) 300 iiiii x 300 iiiii (C/C + Diversion)	8.00	31329	Each	232232.00
21	R2-HE-4-4/2018				
	Making connection on live CI/DI water main	of various	sizes includin	σ	
	cutting of pipes with cutting machine, providing				
	length, specials such as tees, bends, distance piec	-		II	
	for lead joint), jointing the pipes with lead joint a	_			
	complete in all respect as directed by Engineer in				
	excavation, shoring, encasement in cement concr	-		_	
	separately under relevant items. Note: (2) Reba				
	has been considered and old pipes Shall be remo				
	directed.	,			
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	c) 450 mm x 450 mm (C/c + Diversion)	4.00	79585	Each	318340.00
				1	
22	D4 HE 4 5/4040				
22	R2-HE-4-5/2018		. 1 1	6	
22	Making connection on live MS water main of var		_		
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, u	ınloading, l	owering in tre	nches,	
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, u assembling of required MS specials, MS pipe and	ınloading, l l jointing th	owering in tre	nches, ials etc.	
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, u assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body w	inloading, l d jointing thater etc cor	owering in tre ne pipes / spec nplete in all re	nches, ials etc. espect as	
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, u assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body w directed by Engineer in Charge. For following size	unloading, lad jointing the rater etc corress. Note: (owering in tre ne pipes / spec nplete in all re (1) The require	nches, ials etc. espect as	
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, to assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body we directed by Engineer in Charge. For following size excavation, shoring, encasement in cement concr	unloading, lad jointing the rater etc cores. Note: (etc & supple	owering in tre ne pipes / spec nplete in all re (1) The require	nches, ials etc. espect as	
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, u assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body w directed by Engineer in Charge. For following size	unloading, lad jointing the rater etc cores. Note: (etc & supple	owering in tre ne pipes / spec nplete in all re (1) The require	nches, ials etc. espect as	
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, to assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body we directed by Engineer in Charge. For following size excavation, shoring, encasement in cement concr	unloading, lad jointing the rater etc cores. Note: (etc & supple	owering in tre ne pipes / spec nplete in all re (1) The require	nches, ials etc. espect as	20881
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, u assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body w directed by Engineer in Charge. For following siz excavation, shoring, encasement in cement concr valve will be paid separately under relevant item.	unloading, I I jointing the rater etc cores. Note: (ete & suppl	owering in tre the pipes / spector inplete in all re 1) The require by and fixing o	nches, ials etc. espect as ed f sluice	20881 27419
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, u assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body w directed by Engineer in Charge. For following size excavation, shoring, encasement in cement concrudive will be paid separately under relevant item. g) 600 mm x 150 mm dia	unloading, I d jointing the rater etc coreses. Note: (ete & suppl	owering in tre the pipes / spec inplete in all re in the require y and fixing o	nches, ials etc. espect as ed f sluice	
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, to assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body with directed by Engineer in Charge. For following size excavation, shoring, encasement in cement concrivative will be paid separately under relevant item. 10 600 mm x 150 mm dia 11 600 mm x 300 mm dia	unloading, 1 1 jointing the rater etc cores. Note: (ete & suppl 1.00 1.00	owering in tre the pipes / spector inplete in all re (1) The require y and fixing or 20881 27419	nches, ials etc. espect as ed f sluice Each Each	27419
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, to assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body with directed by Engineer in Charge. For following size excavation, shoring, encasement in cement concrivative will be paid separately under relevant item. g) 600 mm x 150 mm dia i) 600 mm x 300 mm dia k) 600 mm x 600 mm dia	inloading, 1 jointing that etc cores. Note: (etc & suppl 1.00 1.00 3.00	owering in tre the pipes / specimplete in all re (1) The require by and fixing or 20881 27419 52449	nches, ials etc. espect as ed f sluice Each Each Each	27419 157347
22	Making connection on live MS water main of var cutting, supplying, loading, transporting on site, to assembling of required MS specials, MS pipe and with butt and lap welding joint, removing body with directed by Engineer in Charge. For following size excavation, shoring, encasement in cement concrivate will be paid separately under relevant item. g) 600 mm x 150 mm dia i) 600 mm x 300 mm dia k) 600 mm x 600 mm dia m) 750 mm x 150 mm dia	inloading, I I jointing thater etc cor ress. Note: (ete & suppl 1.00 1.00 3.00 1.00	owering in tre the pipes / spectors implete in all re (1) The require ty and fixing or 20881 27419 52449 26316	Each Each Each Each	27419 157347 26316

	1. (01 B)	(00	50075	г 1	240650
	q) 750 mm x 600 mm dia (01 no. Prov.)	6.00	58275	Each	349650
	r) 750 mm x 750 mm dia (01 no. Prov.)	3.00	94749	Each	284247
23	R2-HE-3-30				
23	Supplying, transporting on site and fixing Tampe	r proof Vin	otio Air volvos		
					1550076.00
	d) 150 mm	12.00	129173.00	Each	1550076.00
24	R2-HE-4-7/2018				
24	Discarding the existing live CI/DI water main by			ima aast	
	of pipes and specials, Supplying, loading, transpo			_	
	in trenches, assembling the CI / MS pipes / speci				
	complete including cost of mechanical cap or and				
	including caulking etc complete in all respect as	_	-	I .	
	including cost of lead for following diameters. The				
	water main on either side at one location. Note:				
	shoring, encasement in cement cement concrete				
	separately under relevant items. Note: (2) Rebate	e for salvati	on cost of old	pipe has	
	been considered and o				
	c) 150 mm dia	2.00	10567	Each	21134.00
	d) 250 mm dia	2.00	16379	Each	32758.00
	e) 300 mm dia	3.00	20316	Each	60948.00
	f) 450mm dia	2.00	49782	Each	99564.00
25	R2-CS-CW-2-a-1				
	Providing and laying in position ready mixed pla	in cement c	oncrete, using	fly ash	
	and cement content as per approved design mix f	rom Engine	er-in-charge a	nd fly	
	ash conforming to grade I of IS 3812 (Part-1) on			nent of	
	OPC as per IS 456 and uniform blending with ce				
	accordance with clauses 5.2 and 5.2.1 of IS: 456	-2000 in the	items of read	v mixed L	
	concrete and manufactured in fully automatic bat		and transporte		
	site of work in transit mixer for all leads, having	continuous	and transporte		
	site of work in transit mixer for all leads, having mixer, manufactured as per mix design of specific	continuous ed grade for	and transporte agitated plain cement	ed to	
	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro	continuous ed grade for m transit m	and transporte agitated plain cement ixer to site of l	ed to	
	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shutte	continuous ed grade for m transit m ering and fir	and transporte agitated plain cement ixer to site of l nishing, include	aying ling cost	
	site of work in transit mixer for all leads, having mixer, manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shuttof curing, admixtures in recommended proportion	continuous ed grade for m transit m ering and fir ns as per IS	and transported agitated plain cement ixer to site of lanishing, include: 9103 to access	aying ling cost	
	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shuttof curing, admixtures in recommended proportion retard setting of concrete, improve workability w	continuous ed grade for m transit mering and fir ns as per IS ithout impa	and transported agitated plain cement exer to site of lanishing, include: 9103 to accepting strength.	aying ling cost elerate/	
	site of work in transit mixer for all leads, having mixer, manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shuttof curing, admixtures in recommended proportion	continuous ed grade for m transit matering and fir ns as per IS ithout impa harge.M-20	and transported agitated plain cement exer to site of lanishing, include: 9103 to accepting strength.	aying ling cost elerate/	
	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shutto of curing, admixtures in recommended proportion retard setting of concrete, improve workability we durability as per direction of the Engineer - in - commended proportions.	continuous ed grade for m transit m ering and fir ns as per IS ithout impa harge.M-20 um).	and transported agitated plain cement ixer to site of linishing, include: 9103 to accepting strength agrade plain comments.	aying ling cost elerate/	21077001.00
	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shutto of curing, admixtures in recommended proportion retard setting of concrete, improve workability we durability as per direction of the Engineer - in - commended proportions.	continuous ed grade for m transit matering and fir ns as per IS ithout impa harge.M-20	and transported agitated plain cement exer to site of lanishing, include: 9103 to accepting strength.	aying ling cost elerate/ and ement	21077001.00
	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shutto of curing, admixtures in recommended proportion retard setting of concrete, improve workability we durability as per direction of the Engineer - in - commended proportions.	continuous ed grade for m transit m ering and fir ns as per IS ithout impa harge.M-20 um).	and transported agitated plain cement ixer to site of linishing, include: 9103 to accepting strength agrade plain comments.	aying ling cost elerate/ and ement	21077001.00
26	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shutto of curing, admixtures in recommended proportion retard setting of concrete, improve workability we durability as per direction of the Engineer - in - concrete (cement content considered @ 260 kg/c	continuous ed grade for m transit m ering and fir ns as per IS ithout impa harge.M-20 um). 3027.00	and transported agitated agitated plain cement exer to site of lanishing, include: 9103 to accepting strength agrade plain cement 6963.00	aying ling cost clerate/ and ement	21077001.00
26	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shutto of curing, admixtures in recommended proportion retard setting of concrete, improve workability with durability as per direction of the Engineer - in - concrete (cement content considered @ 260 kg/c	continuous ed grade for m transit m ering and fir ns as per IS ithout impa harge.M-20 um). 3027.00 in cement c	and transported agitated plain cement ixer to site of linishing, include: 9103 to acceed iring strength and grade plain cement is 6963.00 oncrete, using	aying ling cost elerate/ and ement Cum	21077001.00
26	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shutto of curing, admixtures in recommended proportion retard setting of concrete, improve workability we durability as per direction of the Engineer - in - concrete (cement content considered @ 260 kg/c R2-CS-CW-2-a-3 Providing and laying in position ready mixed pla and cement content as per approved design mix for as a conforming to grade I of IS 3812 (Part-1) only	continuous ed grade for m transit m ering and fir ns as per IS ithout impa harge.M-20 um). 3027.00 in cement c from Engine ly be used a	and transported agitated agitated plain cement ixer to site of lanishing, include: 9103 to accept iring strength agitated plain compared plai	aying ling cost elerate/ and ement Cum	21077001.00
26	site of work in transit mixer for all leads, having mixer,manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shutto of curing, admixtures in recommended proportion retard setting of concrete, improve workability we durability as per direction of the Engineer - in - concrete (cement content considered @ 260 kg/c R2-CS-CW-2-a-3 Providing and laying in position ready mixed pla and cement content as per approved design mix for as a conforming to grade I of IS 3812 (Part-1) on OPC as per IS 456 and uniform blending with ce	continuous ed grade for m transit m ering and fir ns as per IS ithout impa charge.M-20 um). 3027.00 in cement c from Engine ty be used a ment is to b	and transported agitated aplain cement ixer to site of linishing, include: 9103 to accepting strength: 9 grade plain compared to the compared	aying ling cost elerate/ and ement Cum fly ash nd fly nent of	21077001.00
226	site of work in transit mixer for all leads, having mixer, manufactured as per mix design of specific concrete work, including pumping of R.M.C. fro and curing, including the cost of centering, shutto of curing, admixtures in recommended proportion retard setting of concrete, improve workability with durability as per direction of the Engineer - in - concrete (cement content considered @ 260 kg/c R2-CS-CW-2-a-3 Providing and laying in position ready mixed pla and cement content as per approved design mix for ash conforming to grade I of IS 3812 (Part-1) only OPC as per IS 456 and uniform blending with ce accordance with clauses 5.2 and 5.2.1 of IS: 456-	continuous ed grade for m transit m ering and fir ns as per IS ithout impa harge.M-20 um). 3027.00 in cement c from Engine ly be used a ment is to b -2000 in the	and transported agitated plain cement ixer to site of linishing, include: 9103 to accepting strength and grade plain compared to the property of the property	aying ling cost elerate/ and ement Cum fly ash nd fly nent of y mixed	21077001.00
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20	WA **** 0.4	1		ı				
28	R2-HE -8-4	1.1 1 11						
	Providing and laying 200 mm thick hand sets dry	rubble soli	ing					
		3731.00	332.00	Sqm	1238692.00			
29	R2-CS-MW-3b/2018							
	Brick work with common burnt clay F.P.S. (non	modular) b	ricks of class					
	designation 3.5 and above in foundation and plin	th in: Ceme	ent mortar 1:4 (1				
	cement : 4 coarse sand)							
		56.00	6930.00	Cum.	388080.00			
30	R2-SWD-58							
	Providing 20 mm thick cement plaster in cement		_					
	rendering (without water proofing compound) as	specified &	as directed by	7				
	Engineer-in-Charge							
		91.00	376.00	Sqm	34216.00			
31	R2-CS-CW-1-B/2018							
1	Nominal Mix of 1:2:4 (1 cement OPC: 2 coarse s	sand: 4 gra	ded stone aggre	egate 20				
	mm nominal size)							
		74.00	6821.00	Cum.	504754.00			
32	R2-HE-2-16							
1	Providing and fixing MS frame and cover with it	s complete	assembly	T				
		5830.00	78.00	kg	454740.00			
33	R2-WSP-2-19							
	Providing and applying Cement mortar lining of	specified th	ickness with					
	proportion of cement-sand ratio (1:1) by weight f	or undergro	ound and above	ground				
	pipeline by mechanical trowelling i.e. with the us	se of mortar	lining machin	e and				
	including curing etc.complete as per specification and as directed by Engineer-in -							
	Charge							
		5662.00	445.00	Sqm	2519590.00			
34	R2-WSP-2-20/2018							
	Providing Cement mortar lining of specified thic	kness of 12	mm with propo	ortion of				
	cementsand ratio (1: 1) by weight for undergroun							
	as bends, tapers, cross connections, dipping where		•					
	hand lining including curing etc.as per specificat	ion and as o	directed by Eng	gineer-				
	in -Charge							
		312.00	538	sqm	167856.00			
35	R2-WSP-5-32							
	Providing and fabricating specials and fixtures, I	Dished closi	ares such as ma	anhole				
	covers of required size and shape from M. S. Pla							
	rate to include procurement of plates and other st							
	the plates and structural steel to the required size	-	-	- 1				
	assembling in desired size and shape and thickne							
	machine or manually and forming 'V' edge with							
	to both ends wherever required. The rate shall als							
	and fixtures by adopting suitable means without							
	work including all loading and unloading etc. con							
	directed by Engineer-in -Charge The rate to inc	_	-	-				
	grinding wherever necessary, supply of bolts, nut		_	_				
	drawing. The shop paint shall be paid separately	as per quot	ed rates and sh	an not				
	be included under this item.	1	I 1					
	For 450mm dia Manhole opening 10 no.s	3.00	104101	MT	312303.00			
-	DA WIGN A 10 : A							
36	R2-WSP-2-18-A-2							
	a) Hydraulic testing of M.S. Pipeline to the							
1	specified pressure for the length upto 1 km.	I						

	ii) 750 mm dia	3.00	36976.00	Km	110928.00
	R2-WSP-2-16-A				
	Providing permanent test points				
	on 750mm dia water main	2.00	32045.00	Nos.	64090.00
20	D2 DW 1 10				
38	R2-RW-1-18 Levelling, watering & rolling by vibratory roller	IDD 22 11/2	ighing not loss	than 10	
	tonnes & preparing the ground to the required gr				
	reinstatement for trench in road work) as per Nev			used for	
	remstatement for trenen in road work) as per five			G	105104.00
-+		5536.00	19.00	Sqm	105184.00
39	R2-RW-2-21/2018				
_	Providing & laying, spreading & compacting spe	cified crush	led stone in ar	anular	
	subbase course including premixing the material				
	approved type), spreading of mixed material in u				
	(compacted thickness each) with motor grader or				
	surface & compacting with 10 tonne vibratory ro		•		
	including all material, labour, machinery, lightin				
	maintenance of diversion etc. complete (metal gr				
	as per prevailing MCGM specifications for Road				
-+		2419.00	2547	Cu.mt	6161193.00
		2117.00	2317	Cuilli	01011)3.00
40	R2-RW-2-22/2018				
_	Rebate for not using motor grader / paver for				
	laying of Granular Sub base in RW-2-21	2419.00	-93	Cu.mt	-224967.00
-+					
41	R2-RW-2-20/2018				
	Providing & laying, spreading & compacting gra	ded crushed	l stone aggrega	ate to	
	wet mix macadam to the satisfaction of Engineer				
	with water to OMC in mechanical mix (pug mill)				
-	with water to OMC in mechanical mix (pug min) carriage of	f mix material		
	tipper to site, laying in uniform layer of 75 mm to			by	
		o 100 mm (compacted thic	by kness	
:	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclu-	o 100 mm (o base & comp ding lightin	compacted thic pacting with v g, guarding	by kness ibratory	
:	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubraricading & main tenance of diversion etc. as of	o 100 mm (obase & compliant lighting li	compacted thic pacting with v g, guarding the Engineer, (by kness ibratory Rebate	
	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubraricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta	o 100 mm (obase & compling lighting lighting lighting lighting)	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to	kness ibratory Rebate	
	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubraricading & main tenance of diversion etc. as of	o 100 mm (obase & compling lighting lighting lighting lighting)	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to	kness ibratory Rebate	
	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubraricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta	o 100 mm (obase & compling lighting lighting lighting lighting)	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to	kness ibratory Rebate	6901950.00
	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubraricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta micron as per prevailing MCGM specifications to	o 100 mm (obase & compling lighting lig	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to rks clause no.2	ekness ibratory Rebate 75 40).	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubrarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta micron as per prevailing MCGM specifications for the micron as per prevailing MCGM specifications	o 100 mm (copase & compliant lighting l	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to rks clause no.2	kness ibratory Rebate 75 40).	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubrarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (metamicron as per prevailing MCGM specifications for the micron as per prevailing MCGM specifications for the micron and laying Dry Lean Concrete base incomes the micron and laying Dry Lean Concrete base incomes for the micron and laying Dry Lean Concrete base	o 100 mm (copase & compliant lighting l	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to cks clause no.2	kness ibratory Rebate 75 40). Cu.mt	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubration and tenance of diversion etc. as of for not using sensor paver should be taken, (metamicron as per prevailing MCGM specifications for the model of the specification o	o 100 mm (coase & compliants and lighting lighting lighting lighting lighting lighting and lighting li	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to ks clause no.2 2937 viding coarse a content 150kg/	Rebate 75 40). Cu.mt and fine foum of	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta micron as per prevailing MCGM specifications for the micron and laying Dry Lean Concrete base in aggregate to the specified gradationusing minimic concrete with OPC 43 grade cement, mixing of concrete with open and the micron properties of the specified gradationusing minimic concrete with OPC 43 grade cement, mixing of concrete with open and the mixing op	o 100 mm (coase & compliants and lightin directed by a lightin for Roadwork 2350.00 coluding produm cement concrete as p	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to tks clause no.2 2937 viding coarse a content 150kg/per approved d	Rebate 75 40). Cu.mt Ind fine foum of esign	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (metamicron as per prevailing MCGM specifications for the micron and laying Dry Lean Concrete base in aggregate to the specified gradationusing minimum concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of appropriate to the specified gradationusing minimum concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of appropriate and the mix plant of appropriate concrete with open and the mix plant of appropriate concrete with open and the mix plant of appropriate concrete with open and the mix plant of appropriate concrete concret	o 100 mm (coase & compliants and lightin directed by the lightin for Roadwork 2350.00 cluding program cement concrete as priate capacit	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to tks clause no.2 2937 viding coarse a content 150kg/per approved d ty,transporting	Rebate 75 40). Cu.mt Ind fine feesign and	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta micron as per prevailing MCGM specifications for the micron as per prevailing MCGM specifications for the micron and laying Dry Lean Concrete base in aggregate to the specified gradationusing minimum concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of approplaying with self propelled paver with electronics	o 100 mm (coase & complete depth of the comp	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to tks clause no.2 2937 viding coarse a content 150kg/per approved d ty,transporting e and compacti	Rebate 75 40). Cu.mt Ind fine four of esign and ng with	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta micron as per prevailing MCGM specifications for the micron as per prevailing MCGM specifications for the micron as per prevailing match the specified gradationusing minimate concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of appropriations with self propelled paver with electronics vibratory roller of minimum 80-100 KN static were stated to the specified gradationusing minimates the self propelled paver with electronics wibratory roller of minimum 80-100 KN static were stated to the specified gradationusing minimates the self-propelled paver with electronics wibratory roller of minimum 80-100 KN static were self-properties.	o 100 mm (coase & complete depth of the comp	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to rks clause no.2 2937 viding coarse a content 150kg/per approved d ty,transporting e and compactie desired comp	Rebate 75 40). Cu.mt Ind fine feum of esign and ng with acted	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta micron as per prevailing MCGM specifications for micron as per prevailing MCGM specifications for micron and laying Dry Lean Concrete base in aggregate to the specified gradationusing minimic concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of appropriational properties of minimum 80-100 KN static with density and average compressive strength of 10M static with the sense of the s	o 100 mm (copase & compliants) and lighting lighting directed by a large gradation for Roadword 2350.00 column cement concrete as priate capacities ensor device eight to give MPa at 7day	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to tks clause no.2 2937 viding coarse a content 150kg/orer approved d ty,transporting e and compacting e desired comp sand curing w	Rebate 75 40). Cu.mt Ind fine feum of esign and ng with acted	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta micron as per prevailing MCGM specifications for the micron as per prevailing MCGM specifications for the micron and laying Dry Lean Concrete base in aggregate to the specified gradationusing minimus concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of appropalaying with self propelled paver with electronics vibratory roller of minimum 80-100 KN static words and average compressive strength of 10M liquid curing compound and sprinkling water and	o 100 mm (copase & compliant lighting l	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to tks clause no.2 2937 viding coarse a content 150kg/orer approved d ty,transporting e and compacti e desired comp sand curing with	Rebate 75 40). Cu.mt Ind fine foum of esign and ng with acted ith	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (metamicron as per prevailing MCGM specifications for micron as per prevailing MCGM specifications for micron and laying Dry Lean Concrete base in aggregate to the specified gradationusing minimic concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of approplaying with self propelled paver with electronics vibratory roller of minimum 80-100 KN static widensity and average compressive strength of 10M liquid curing compound and sprinkling water and moisthesianclothor ponding of water or 7days inconstitutions.	o 100 mm (coase & compliants) ding lightin directed by a lighting for Roadwork 2350.00 column cement concrete as priate capacies ensordevice eight to give MPa at 7day di covering welluding proveluding proveludi	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to tks clause no.2 2937 viding coarse a content 150kg/oer approved d ty,transporting e and compacting and compacting to the compacting with viding constructions.	Rebate 75 40). Cu.mt Ind fine form of esign and ng with acted ith	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (meta micron as per prevailing MCGM specifications for the micron as per prevailing MCGM specifications for the micron and laying Dry Lean Concrete base in aggregate to the specified gradationusing minimus concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of appropalaying with self propelled paver with electronics vibratory roller of minimum 80-100 KN static words and average compressive strength of 10M liquid curing compound and sprinkling water and	o 100 mm (coase & compliants) ding lightin directed by a lighting for Roadwork 2350.00 column cement concrete as priate capacies ensordevice eight to give MPa at 7day di covering welluding proveluding proveludi	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to tks clause no.2 2937 viding coarse a content 150kg/oer approved d ty,transporting e and compacting and compacting to the compacting with viding constructions.	Rebate 75 40). Cu.mt Ind fine form of esign and ng with acted ith	6901950.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (metamicron as per prevailing MCGM specifications for micron as per prevailing MCGM specifications for aggregate to the specified gradationusing minimic concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of approplaying with self propelled paver with electronics vibratory roller of minimum 80-100 KN static widensity and average compressive strength of 10M liquid curing compound and sprinkling water and moisthesianclothor ponding of water or 7days in joints, including all material, labour, machinery willow the substitution of the substitution	o 100 mm (coase & compliants) ding lightin directed by a lighting for Roadwork 2350.00 column cement concrete as priate capacies ensordevice eight to give MPa at 7day di covering welluding proveluding proveludi	compacted thic pacting with v g, guarding the Engineer, (from 53 mm to tks clause no.2 2937 viding coarse a content 150kg/oer approved d ty,transporting e and compacting and compacting to the compacting with viding constructions.	Rebate 75 40). Cu.mt Ind fine form of esign and ng with acted ith	6901950.00 4938062.00
42	tipper to site, laying in uniform layer of 75 mm to each) with sensorpaver finisher on prepared subbroller (10 tonne) to achieve desired density inclubarricading & main tenance of diversion etc. as of for not using sensor paver should be taken, (metamicron as per prevailing MCGM specifications for micron as per prevailing MCGM specifications for aggregate to the specified gradationusing minimic concrete with OPC 43 grade cement, mixing of comix using mechanised batch mix plant of approplaying with self propelled paver with electronics vibratory roller of minimum 80-100 KN static widensity and average compressive strength of 10M liquid curing compound and sprinkling water and moisthesianclothor ponding of water or 7days in joints, including all material, labour, machinery willow the substitution of the substitution	o 100 mm (coase & compling lightin directed by the lighting lighting and lighting lighting and lighting provided at 7 day the lighting provided at 7 day the lighting provided at 7 day the lighting provided at 8 provided at 7 day the lighting provided lighting provided at 8 provided	compacted thic pacting with vg, guarding the Engineer, (from 53 mm to tks clause no.2 2937 viding coarse a content 150kg/per approved d ty,transporting and compactice desired comp sand curing whith viding construction and lifts etc. compacting the construction of the compacting the desired compacting the	Rebate 75 40). Cu.mt Cumt Ind fine cum of esign and ng with acted ith etion complete	

	Providing & laying M-40C.C.avg. compressive s strength of 5.0MPa (As per IRC15-2002.N.1.6) p	_	•	I	
	R.M.C. plant including use of approved make of			pproved	
	Contractor's water with ice flakes and transported			cing at	
	work site . Compacting, finishing, initial curing				
	Contractor's water and tarring the sides of slab w	• • •		I	
	directed (w/c ratio0.4maximum)(vata for curring	will be paid	d separately.)		
	(MINIMUM CEMENT CONTENT 350 kg/m³)				
		2180.00	7968	Cu.mt.	17370240.00
44	R2-RW-10-18/20185				
	Providing & laying water proof paper of 40 GSN	I I including	overlap (tobe :	not less	
	than 10cm) etc. complete as specified as directed		- · · · · · · · · · · · · · · · · · · ·		
		7320.00	11	sqm	80520.00
4.5	D2 DW 10 11/2019				
45	R2-RW-10-11/2018 Cutting of construction & dummy joints of M-35	CC & abo	ove clah hy		
	mechanical means within 10 to 16 hrs of casting		•		
	A) Transverse dummy joints 100mm deep or 1/3	-		ement	
	& 6 mm wide.		1		
		3984.00	59	Rmt	235056.00
46	R2-RW-10-12/2018	70001	1 1 1	1 .	
	Cutting of construction & dummy joints of M-35 means within 10 to 16 hrs of casting of bay/slab		ove slab by me	echanica	
	B)Longitudinal construction joints 100mm deep		ckness of slab	0 & 6	
	mm wide	01 1/3 1 u tiii	ekiless of sluc	, & 0	
		3369.00	59	Rmt	198771.00
		3309.00	39	Kiiit	1987/1.00
47	R2-RW-10-23/2018				
	Dressing of M-35 & above new C.C. pavement,	lummy,tran	sverse,longitu	dinal &	
	expansion joints with hot rubber ised sealing con	_	-	I	
	1984 after proper cleaning with compressed air,a				
	providing a layer of lime powder over hot sealing directed.	g compound	etc.complete	as	
	A) Sealing 6mm wide dummy/transverse joints v	vith a denth	of 100mm or	1/3rd	
	thickness of concrete pavement.	viii u uopiii	01 100111111 01	1,010	
		3984.00	92	Rmt	366528.00
			-		
48	R2-RW-10-24/2018				
	Dressing of M-35 & above new C.C. pavement,	-	-	I	
	expansion joints with hot rubber ised sealing con				
	1984 after proper cleaning with compressed air,a providing a layer of lime powder over hot sealing			I	
	directed.	g compound	cic.complete	as	
	B) Sealing of 6mm wide longitudinal joint with o	depth of 100	mm or 1/3rd		
	thickness of concrete pavement.	•			
		3984.00	92	Rmt	366528.00
49	R2-RW-10-16/2018	612		0.45	
	Providing & fixing in position mild steel tie bars		_	I	
	C/C whenever directed including handling, wrap fixing, straightening, wastage etc. complete in al			engin,	
	mang, straightening, wasaage etc. complete in an	3.00	63226.00	MT	189678.00
		3.00	03220.00	171 1	1070/0.00
50	R2-CS-SS-06-c				
	Providing and fixing the Mechanical Anchor Fas	teners as sp	ecified below	of Hilti	
	Make or equivalent confirming to IS 1367 (Part 3	3) at require	d locations an	d level	
	including drilling the hole, cleaning and anchoring	-	-	eturers	
	specifications etc. complete as directed by Engin		ř – – – – – – – – – – – – – – – – – – –		
	M12x115	5020.00	65.00	Each	326300.00

51					
	R2-RW-10-17/2018				
	Providing & fixing in position M.S.dowel bars of		•		
	C/C whenever directed including handling, fixing	_	ete(no extra pa	yment	
	will be made for applying bitumen & ease to dow	el bars)			
		2.50	62904.00	MT	157260.00
52	R2-RW-10-19/2018				
	Providing & constructing cement vata sinc/m 1:1	0.6m	x 0.6m c/c		
	admeasuring 0.09 mat bottom, 0.04 mat top & 0.0				
	same throughout 14days curing & removing the s	ame therea	fter, as directe	d.	
		7320.00	78	sqm	570960.00
53	R2-RW-3-20/2018				
	Providing & Fixing in the carriage way interlocking	-			
	concrete unishape pavers in Red (Terra Cotta), B				
	unishape (monolithic-single layer precast concret				
	weigh to feementhaving average crushing strengt			n² as	
	per technical specifications and IS CODE 15658:			, ,	
	compacted thickness of 25mm well graded sand of				
	with proper capacity mechanical compactor with		vel, grade and	camber	
	etc. complete as specified and as directed by the		1010	G	50427.00
		49.00	1213	Sqm	59437.00
54	R2-RW-3-21/2018				
	Removing & refixing inter locking concrete				
	pavers of 100mm thick, of any size, shape and				
	colour considering 10% breakage area of paver				
	block while removing same from position and				
	replacing the same by new paver blocks having				
	average crushing strength not less than				
	50N/mm ² as per technical specifications and IS	32.03			
	CODE 15658:2006, placed on average	32.03			
	compacted thickness of 25 mm well graded sand				
	cushioning uniformly compacted with proper				
	capacity mechanical compactor with required				
	level, grade and camber etc. complete as				
	specified and as directed by the Engineer.				
		33.00	251	Sam	8283.00
		33.00	231	Sqm	8283.00
55	R2-HE-3-17/2018				
	Supplying, loading, transporting on site, unloading				
	conforming to AWWA C-504 in SGI- IS 1865(G				
	appurtenances and flange adaptors, nuts, bolts, w				
	same as directed on site, hoisting, lowering and p	_		•	
	, ,		DI or MS wat	ter	
	and level with tappers, saddles, branches flanges				
	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE	E and flange	e for following		
	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt	E and flange ter used her	e for following re conforms to		
	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt AWWA C-219. Note: (1) Butterfly valves, flang	E and flango ter used her e adaptors	e for following re conforms to and all other n		
	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt	E and flango ter used her e adaptors	e for following re conforms to and all other n		
	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt AWWA C-219. Note: (1) Butterfly valves, flang	E and flango ter used her e adaptors	e for following re conforms to and all other n		532827.00
	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt AWWA C-219. Note: (1) Butterfly valves, flang shall be supplied as per the acceptance criteria of	E and flange ter used her e adaptors a MCGM as	e for following re conforms to and all other n given in	naterials	532827.00
56	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt AWWA C-219. Note: (1) Butterfly valves, flang shall be supplied as per the acceptance criteria of c) 600 mm dia BFV	E and flange ter used her e adaptors a MCGM as	e for following re conforms to and all other n given in	naterials	532827.00
556	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt AWWA C-219. Note: (1) Butterfly valves, flang shall be supplied as per the acceptance criteria of c) 600 mm dia BFV R2-RW-10-44/2018	E and flange ter used her e adaptors SMCGM as	e for following re conforms to and all other n s given in 532827.00	Each	532827.00
56	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt AWWA C-219. Note: (1) Butterfly valves, flang shall be supplied as per the acceptance criteria of c) 600 mm dia BFV R2-RW-10-44/2018 P/L Controlled Low Strength Material (CLSM) h	E and flange ter used her e adaptors SMCGM as 1.00	e for following re conforms to and all other n s given in 532827.00	Each rength	532827.00
56	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt AWWA C-219. Note: (1) Butterfly valves, flang shall be supplied as per the acceptance criteria of c) 600 mm dia BFV R2-RW-10-44/2018 P/L Controlled Low Strength Material (CLSM) h 5.0 Mpa procured from M.C.G.M. approved R.M	E and flangeter used here adaptors SMCGM as 1.00 aving avg.c.C. plant ir	e for following re conforms to and all other n signer in 532827.00 compressive stackulding use of	Each rength	532827.00
56	and level with tappers, saddles, branches flanges mains and for PE pipes along with Long Neck PE diameters. (Manually operated). The flange adapt AWWA C-219. Note: (1) Butterfly valves, flang shall be supplied as per the acceptance criteria of c) 600 mm dia BFV R2-RW-10-44/2018 P/L Controlled Low Strength Material (CLSM) h	E and flangeter used here adaptors SMCGM as 1.00 aving avg.c.C. plant ird by transi	e for following re conforms to and all other no signer in 532827.00 compressive stacluding use of t mixer & place	Each rength	532827.00

		2172.81	4410.00	Cum	9582111.06
57	R2-RW-5-20/2018	TIONIC DI	TID (EXTEND	II CION	
	Providing and applying PRIME COAT with CAT (SS) @ 7 to 12 Kg. of 10Sqmt over prepared surf applying PRIMER with mechanical spray bitume surface etc. completed, as directed for Low Poros shall be allowed to cure for at least 24 hours or at to be necessary to allow all the moisture or volation.	ace to recent on, including the street street on the thing	ive bituminous g cleaning of r & the primed gher period, as	s mix by coad surface is found	
		2387.37			
		2388.00	57.00	Sqm	136116.00
58	R2-RW-5-24/2018				
	Providing and applying TACK COAT 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 cleaning of road surface etc. completed, asdirected for DRY & HUNGRY BITUMINOUS SURFACES (As per prevailing MCGM specifications for Roadworks Clause No. 314)	2170.34	35.00	Sqm	75961.90
59	R2-RW-5-23/2018				
	Providing and applying TACK COAT with CATIONIC BITUMEN EMULSION (RS) @ 0.2 to 0.25 Kg. of Sq.mt over prepared surface to receive bituminous mix by applying TACK COAT with mechanicalspray bitumen, including cleaning of road surface etc. completed, asdirected For NORMAL BITUMINOUS SURFACES & the tack coat shall be left to cure	2170.34	33.00	Sqm	71621.22
60	R2-RW-5-48/2018				
	P/L hot Premix Dense bituminous macadam with 4.50% bitumen content of grade 30-40 to the required line,level,and camber rolling with 10/12 M.T.power ,vibratory roller & sensor paver etc. complete as specified and as directed	2170.34	440.00	Sqm	954949.60
	R2-RW-5-04 A/2018				

		11295.00	715.00	Sqm	8075925.00
	De DWY 40 46/2010				
53	R2-RW-10-46/2018				
o <i>3</i>	R2-RW-10-46/2018				
_		1: : 1		1.600	
	Providing and fixing pre-cast Central Median	livider Tyne-l	of R M C in	M-20	
	C.C. on Road as per drawing, finished neatly,	compacting c	uring with for	m work	
	etc, including bedding of R.M.C. of M-10 C.C	. 15 cm thick.	filling of joint	ts in	
	C.M. 1:2 & painting the exposed surface with	3 coat of road	marking paint	t, Grade-	
	I of approved colour and quality including requ	ııred excavatı	on ın C.C., asp	ohalt	
			_		
	etc, and removing the same any where in City				
	specified and as directed by the Engineer. (No	te:-Every 10	dividers shall b	nave 40	
	mm. dia. hole along the center line of divider a	t formation le	vel of road to	drain	
	off rain water / excess water.)				
	IOII rain Waier / excess Waier i				
	off fami water / excess water.)				
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	During execution of work between the	1000.00	1685.00	Rmt	1685000 00
	During execution of work between the	1000.00	1685.00	Rmt	1685000.00
	, , , , , , , , , , , , , , , , , , ,	1000.00	1685.00	Rmt	1685000.00
	During execution of work between the	1000.00	1685.00	Rmt	1685000.00
54	During execution of work between the road.(Provision)	1000.00	1685.00	Rmt	1685000.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018				1685000.00
64	During execution of work between the road.(Provision)				1685000.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload	ling butterfly	valves of PN		1685000.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(0	ding butterfly	valves of PN i	1.0	1685000.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(0	ding butterfly	valves of PN i	1.0	1685000.00
54	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings experiences)	ding butterfly Grade 500/7) a	valves of PN imaterial with the same as dire	1.0 ected on	1685000.00
54	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(0	ding butterfly Grade 500/7) a	valves of PN imaterial with the same as dire	1.0 ected on	1685000.00
54	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings esite, hoisting, lowering and positioning the same	ding butterfly Grade 500/7) atc. stacking the	valves of PN material with the same as directly and level w	1.0 ected on ith	1685000.00
54	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings esite, hoisting, lowering and positioning the san tappers, saddles, branches flanges etc. on CI//	ding butterfly Grade 500/7) a tc. stacking the in true plum DI or MS wat	valves of PN imaterial with the same as directly and level wer mains and for	1.0 ected on ith	1685000.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings esite, hoisting, lowering and positioning the san tappers, saddles, branches flanges etc. on CI/pipes along with Long Neck PE and flange (M	ding butterfly Grade 500/7) in etc. stacking the ein true plum DI or MS wat anually opera	valves of PN material with he same as dire nb and level w er mains and fi ted). Note: Bu	1.0 ected on ith for PE utterfly	1685000.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings esite, hoisting, lowering and positioning the san tappers, saddles, branches flanges etc. on CI/pipes along with Long Neck PE and flange (M	ding butterfly Grade 500/7) in etc. stacking the ein true plum DI or MS wat anually opera	valves of PN material with he same as dire nb and level w er mains and fi ted). Note: Bu	1.0 ected on ith for PE utterfly	1685000.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings esite, hoisting, lowering and positioning the sam tappers, saddles, branches flanges etc. on CI/Dipipes along with Long Neck PE and flange (Mayalves and all other materials shall be supplied	ding butterfly Grade 500/7) in etc. stacking the ein true plum DI or MS wat anually opera	valves of PN material with he same as dire nb and level w er mains and fi ted). Note: Bu	1.0 ected on ith for PE utterfly	1685000.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings esite, hoisting, lowering and positioning the san tappers, saddles, branches flanges etc. on CI/pipes along with Long Neck PE and flange (M	ding butterfly Grade 500/7) in etc. stacking the ein true plum DI or MS wat anually opera	valves of PN material with he same as dire nb and level w er mains and fi ted). Note: Bu	1.0 ected on ith for PE utterfly	1685000.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings esite, hoisting, lowering and positioning the sam tappers, saddles, branches flanges etc. on CI/pipes along with Long Neck PE and flange (M valves and all other materials shall be supplied MCGM as given in specification.	ding butterfly Grade 500/7) attc. stacking the in true plum DI or MS wat anually opera as per the according to the state of the state o	valves of PN imaterial with the same as directly and level wer mains and fetted). Note: But the ceptance criter	1.0 ected on ith or PE atterfly ia of	
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings esite, hoisting, lowering and positioning the sam tappers, saddles, branches flanges etc. on CI/Dipipes along with Long Neck PE and flange (Mayalves and all other materials shall be supplied	ding butterfly Grade 500/7) in etc. stacking the ein true plum DI or MS wat anually opera	valves of PN material with the same as directly and level wer mains and fitted). Note: But the ceptance criter 339095	1.0 ected on ith for PE atterfly ia of	678190.00
64	During execution of work between the road.(Provision) R2-HE-3-20/2018 Supplying, loading, transporting on site, unload conforming to AWWA C-504 in SGI-IS1865(dappurtenances, nuts, bolts, washers, packings esite, hoisting, lowering and positioning the sam tappers, saddles, branches flanges etc. on CI/pipes along with Long Neck PE and flange (M valves and all other materials shall be supplied MCGM as given in specification.	ding butterfly Grade 500/7) attc. stacking the in true plum DI or MS wat anually opera as per the according to the state of the state o	valves of PN imaterial with the same as directly and level wer mains and fetted). Note: But the ceptance criter	1.0 ected on ith for PE atterfly ia of	