DETAILED ESTIMATE

Jal Jeevan Mission (JJM)-JJM PROVIDING FHTCS TO ALL HOUSEHOLD IN ERATTAYAR AND KAMAKSHI (PART) PANCHAYATHS IN IDUKKI DISTRICTS-Providing and Laying Distribution Network and FHTC's for various zones-Pipeline Work

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
1	Cost of materials		-	u			
1.001	100.98.116						
	Supply of DI K9 P	ipe Confo	orming to IS	8329/2000, 1	50mm Dia.		
	Supply of	of DI K9 F	Pipe Conform	ing to IS 832	29/2000, 150	mm Dia.	
	From wtp	1	772.000				772.000
	From Tenali city	1	2358.000				2358.000
	From Adayalakallu	1	120.000				120.000
	From Naguthotty	1	206.000	KA DIN			206.000
	From Heropadi	1	1240.000	Station .			1240.000
	For future maintenance2.5%	1	4696.000	₹ IL		0.0250 00	117.400
	Deduction for MS Pipe	-100	1.000	M FOR THE M WORKS	ANAGEMENT	1.0000 00	-100.000
	Rounded	1				0.6000 00	0.600
	Total						4714.000
				Tota	al Quantity	in metre	4714.000
1.002	100.98.117						
	Supply of DI K9 P	ipe Confo	orming to IS	8329/2000, 2	200mm Dia.		
	Supply of	DI K9 Pi	pe Conformi	ng to IS 8329	9/2000, 200n	nm Dia	
	From wtp	1	155.000				155.000
	From Tenali city	1	304.000				304.000
	From Vazhavara	1	33.000				33.000
	From Naguthotty	1	20.000				20.000
	From Heropadi	1	603.000				603.000
	For future maintenance 2.5%	1	1115.000	1.000	1.000	0.0250 00	27.875
						1.0000	
	Deduction fir MS Pipe	-60	1.000		1.000	00	-60.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total	•	·				1083.000
				Tot	al Quantity	in metre	1083.000
1.003	100.98.118					-	
	Supply of DI K9 F	ipe Confo	orming to IS	8329/2000, 2	250mm Dia.		
	Supply of DI K	Pipe Co	nforming to I	S 8329/2000), 250mm Di	a.	
	From wtp	1	635.000				635.000
	For future Maintenance 2.5%	1	635.000			0.0250 00	15.875
	Deduction for MS pipe	-20	1.000				-20.000
	Rounded	1				0.1250 00	0.125
	Total			_			631.000
			-63	Tot	al Quantity	in metre	631.000
1.004	100.98.135						
	Supply of HDPE I	Pipe PE 10	00 (IS 4984/1	995), 8kg, 1	10mm Outer	Dia.	
	HDPE PIPE 8K	3		3-11		T T	
	From WTP	1	8240.000		_		8240.000
	From Nanguthotty	1	10065.00 0	VI FOR THE IV VORKS	ANAGEMENT		10065.00
	From Heropadi	1	8806.000				8806.000
	Total						27111.0 0
				Tot	al Quantity	in metre	27111.00 0
1.005	OD79784/2022-20)23				•	
	Supply of specials	for HDPI	E Pipe PE100	,8(kg) as pe	er direction.		
	Specials for 110 r	nm HDPE	8(kg) pipe				
	Specials	1	27111.00 0				27111.00 0
	Total						27111.0 0
				Tot	al Quantity	in metre	27111.00 0
1.006	100.98.155						
	Supply of HDPE I	Pipe PE 10	00 (IS 4984/1	995), 10kg,	110mm Out	er Dia.	
	Supply of P	E Pipe, PE	E100, PN10,	110mm dia,	conforming	to IS 4984	/1995.
	From WTP	1	680.000				680.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	From Nanguthotty	1	2330.000				2330.000
	From Heropadi	1	7118.000				7118.000
	Total						10128.00 0
				Tot	al Quantity	in metre	10128.00
1.007	OD79826/2022-20)23				•	
	Supply of Specials	for HDP	E Pipe 10(kg) as per dire	ction		
	Specials for 110:	mm HDPI	, 12/)		Г	
	Specials	1	10128.00				10128.00 0
	Total						10128.00 0
			TI S	Tot	al Quantity	in metre	10128.00 0
1.008	100.98.195		#16			·	
	Supply of HDPE I	Pipe PE 10	00 (IS 4984 <mark>/1</mark>	995), 16kg,	110mm Oute	er Dia.	
	Supply of PE	Pipe, PE1	100, PN16, <mark>1</mark>	<mark>10</mark> mm dia, c	onforming to	IS 4984/	1995
	From WTP	1	624.000	M FOR THE M	ANAGEMENT		624.000
	From Nanguthotty	1	16562.00 0	WORKS			16562.00 0
	From Heropadi	1	11149.00				11149.00 0
	Deduction for 100 mm GI Pipe	-360	1.000				-360.000
	Total						27975.00 0
				Tot	al Quantity	in metre	27975.00 0
1.009	OD79869/2022-20)23				Î	
	Supply of Specials	for 110 n	nm dia HDPI	E 16(kg) pip	e		
	Specials for 110 r	nm HDPI	E 16(kg)Pipe		Γ	Т	
		1	27975.00 0				27975.00 0
	Total						27975.00 0
				Tot	al Quantity	in metre	27975.00 0
1.010	100.98.134						
	Supply of HDPE I	Pipe PE 10	00 (IS 4984/1	995), 8kg, 9	0mm Outer	Dia.	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply of PI	E Pipe, PE	100, PN6, 90	mm dia, cor	nforming to I	S 4984/19	95.
	From Tenalicity	1	4308.000				4308.000
	From Vazhavara	1	2773.000				2773.000
	From Adayalakallu	1	1786.000				1786.000
	From Kurissummootil padi	1	1338.000				1338.000
	Total						10205.00 0
				Tot	al Quantity	in metre	10205.00 0
1.011	OD79888/2022-20	023					
	Supply of Specials	s for 90 m	ım HDPE 8 k	Kg Pipe			
	Specials for 90 m	m HDPE	Pipe	1			
	Specials	1	10205.00	2/1/1			10205.00 0
	Total			3-16	- [10205.00 0
		M	e-PLATFOR/	Tot	al Quantity	in metre	10205.00 0
1.012	100.98.154		OF PUBLIC \	NORKS		•	
	Supply of HDPE I	Pipe PE 10	00 (IS 4984/1	995), 10kg,	90mm Outer	Dia.	
	Supply 90 mm H	DPE 10(k	g)				
	From Tenali city	1	1920.000				1920.000
	From Vazhavara	1	1424.000				1424.000
	From Adayalakallu	1	971.000				971.000
	From						
	Kurissummootil padi	1	3785.000				3785.000
	Kurissummootil	1	3785.000				3785.000 8100.000
	Kurissummootil padi	1	3785.000	Tot	al Quantity	in metre	
1.013	Kurissummootil padi		3785.000	Tot	al Quantity	in metre	8100.000
1.013	Kurissummootil padi Total OD79908/2022-20 Supply specials for	023 or 90 mm I	HDPE 90 mm		•	in metre	8100.000
1.013	Kurissummootil padi Total OD79908/2022-20	023 or 90 mm I m HDPE	HDPE 90 mm		•	in metre	8100.000 8100.000
1.013	Kurissummootil padi Total OD79908/2022-20 Supply specials for Specials for 90mm	023 or 90 mm I	HDPE 90 mm		•	in metre	8100.000 8100.000 8100.000
1.013	Kurissummootil padi Total OD79908/2022-20 Supply specials for	023 or 90 mm I m HDPE	HDPE 90 mm	ı 10(kg)pipe	•		8100.000 8100.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantit
	Supply of HDPE F	Pipe PE 10	00 (IS 4984/1	995), 16kg,	90mm Outer	Dia.	
	Supply of PE	Pipe, PE	100, PN16, 90	Omm dia, co	nforming to	IS 4984/19	995
	From Tenali city	1	1922.000				1922.00
	Vazhavara	1	2972.000				2972.00
	Adayalakkallu	1	3904.000				3904.00
	Deduction for 80 mm GI Pipe	-360	1.000				-360.00
	Total						8438.00
				Tota	al Quantity	in metre	8438.00
1.015	OD79931/2022-20)23					
	Specials for 90 mr	n HDPE I	Pipe 16 (kg)				
	Specials for 90 mr	n HDPE	Pipe 16(kg)				
		1	8438.000				8438.00
	Total						8438.00
			ALTES!	Tota	al Quantity	in metre	8438.00
1.016	OD74262/2022-20)23	00000	S. Carrier			
	Supply of 100mm	GI (M) pi	pes	3 -16			
	100 mm GI Pi	pe					
	For culvert gap closing	30	12.000	M FOR THE M WORKS	ANAGEMENT		360.00
	Total						360.00
				Tota	al Quantity i	in metre	360.00
1.017	OD79681/2022-20)23					
	Specials for 100 m	ım GI pip	e medium				
	Specials for 100 n	nm GI Pi	pe				
	Specials	1	360.000				360.00
	Total						360.00
				Tota	al Quantity	in metre	360.00
1.018	100.98.440						
	Supply of CI Air V Type S1, Size 25m		nforming to I	S 14848 - 20	000, Single O	rifice, Sm	all Orific
	Supply of CI A	ir Valve,2	5 mm Single	orifice			
	Air valve	265					265.00
	Total						265.00
				r	Total Quant	ity in no	265.00
1.019	100.98.445						
	Supply of CI Air V Size 40mm.	/alve, Coi	nforming to I	S 14848 - 20	000, Double (Orifice Ty	pe DS2,

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supply of CI Ai	r Valve, I	Double Orific	ce Size 40mr	n.		
	Air valve	50					50.000
	Total						50.000
				ı	Total Quant	tity in no	50.000
1.020	100.98.436						
	Supply of CI Air V Size 80mm.	/alve, Co	nforming to	IS 14848 - 20	000, Kinetic	Air Valve	Type DK,
	Air valve						
	80mm	12					12.000
	Total						12.000
				ı	Total Quant	tity in no	12.000
1.021	100.98.457						
	Supply of CI Doub Valve with Cap Pl			ve Conformi	ing to IS 148	46 - 2000	, Sluice
	Supply of C 80mm	I Double	Flanged Slu	ice Valve Sl	uice Valve v	vith Cap P	N 1.6, Size
	80mm Sluice valve	88		3-16			88.000
	80mm Sluice valve for Scour	7	e-PLATFOR	M FOR THE M	ANAGEMENT		7.000
	Total		OF PUBLIC	WORKS			95.000
					Total Quant	tity in no	95.000
1.022	100.98.458						
	Supply of CI Doub Valve with Cap Pl			ve Conformi	ing to IS 148	46 - 2000	, Sluice
	Supply of C Sluice Valve with	I Double : Cap PN 1	Flanged Slui .6, Size 100	ce Valve Comm.	nforming to	IS 14846 -	- 2000,
		60					60.000
	for Scour	10					10.000
	Total						70.000
				· ·	Total Quant	tity in no	70.000
1.023	100.98.460						
	Supply of CI Doub Valve with Cap Pl			ve Conformi	ing to IS 148	46 - 2000	, Sluice
	Supply of CI Sluice Valve with				forming to IS	S 14846 - :	2000,
	150mm sluice valve	9					9.000
	Total						9.000
					Total Quant	tity in no	9.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
1.024	100.98.461									
	Supply of CI Doul Valve with Cap Pl			ve Conformi	ng to IS 148	46 - 2000	, Sluice			
	Supply of CI D Valve with Cap Pi			Valve Confo	rming to IS 1	4846 - 20	000, Sluice			
		5					5.000			
	Total						5.000			
				,	Total Quant	ity in no	5.000			
1.025	100.98.462									
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000 Valve with Cap PN 1.6, Size 250mm.									
	250 mm sluice va	alve								
	Sluice valve	3					3.000			
	Total		1	W.			3.000			
					Total Quant	ity in no	3.000			
2	Working charge for	or Distribu	tion System	Market Comment						
2.001	100.1.1			716						
	sockets, and dressi getting out the exc exceeding 20cm in watering, etc., and 50m, in all kinds of	avated so depth, in disposing	il, and then recluding cons	eturning the solidating eac	soil as requir ch deposited	ed, in lay layer by r	ers not amming,			
	EW exc	avation in	all kinds of	f soil-65%						
	250 mm DI K9	1	635.000	0.900	1.200	0.6500 00	445.770			
	200 mm DI K9	1	1115.000	0.800	1.150	0.6500 00	666.770			
	150 mm DI K9	1	4696.000	0.700	1.050	0.6500 00	2243.514			
	110 mm PE	1	65214.00 0	0.600	1.000	0.6500 00	25433.46 0			
	90 mm PE	1	26743.00 0	0.500	0.900	0.6500 00	7822.328			
	Deduction for road cutting	-1	1100.000	0.800	0.200		-176.000			
	Total						36435.84 2			
				To	otal Quantity	y in cum	36435.84 2			
2.002	100.1.5									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity					
	Excavating trenches ockets, and dressing out the exceeding 20cm in watering, etc., and m, in Ordinary Ro	.5m, inclured, in lay layer by r	ding ers not amming,									
	EW excavation in ordinary rock-25%											
	250 mm DI k9 1 635.000 0.900 1.200 0.2500 00											
	200 mm DI k9	1	1115.000	0.800	1.150	0.2500 00	256.450					
	150 mm DI k9	1	4696.000	0.700	1.050	0.2500 00	862.890					
	110 mm PE	1	65214.00 0	0.600	1.000	0.2500	9782.100					
	90 mm PE	1	26743.00 0	0.500	0.900	0.2500	3008.588					
	Total			0414			14081.47 8					
	Total Quantity in cum											
				3 To	otal Quantity	y in cum	14081.47 8					
2.003	100.2.7		P	To	otal Quantity	y in cum	14081.47 8					
2.003	Excavating trench sockets, and dress getting out the exc exceeding 20cm in watering, etc., and	ing of side cavated so n depth, in l disposing	es, ramming of the sil, and then recluding consigning of surplus e	or pipes, cable of bottoms, deturning the solidating eacexcavated soi	es, etc., inclu lepth up to 1 soil as requir ch deposited	iding exca .5m, inclured, in lay	avation for ding ers not amming,					
2.003	Excavating trench sockets, and dress getting out the exc exceeding 20cm ir watering, etc., and 50m, in Medium F	ing of side cavated so depth, in disposing Rock wher	es, ramming of the sil, and then recluding consigning of surplus e	or pipes, cable of bottoms, deturning the solidating eacexcavated soil Prohibited.	es, etc., inclu lepth up to 1 soil as requir ch deposited	iding exca .5m, inclured, in lay	avation for dding ers not amming,					
2.003	Excavating trench sockets, and dress getting out the exc exceeding 20cm ir watering, etc., and 50m, in Medium F	ing of side cavated so depth, in disposing Rock wher	es, ramming oil, and then recluding consignors of surplus ere Blasting is	or pipes, cable of bottoms, deturning the solidating eacexcavated soil Prohibited.	es, etc., inclu lepth up to 1 soil as requir ch deposited	iding exca 5m, inclured, in lay layer by r within a	avation for ding ers not amming, lead of					
2.003	Excavating trench sockets, and dress getting out the exc exceeding 20cm ir watering, etc., and 50m, in Medium F	ing of side cavated so n depth, in disposing Rock wher ion in Me	es, ramming oil, and then recluding consignof surplus estee Blasting is	or pipes, cable of bottoms, deturning the solidating eace excavated soi Prohibited.	es, etc., include the period of the period o	iding exca 5m, inclured, in lay layer by r within a	avation for ding ers not amming, lead of					
2.003	Excavating trench sockets, and dress getting out the exceeding 20cm ir watering, etc., and 50m, in Medium FEW excavate 250 mm DI k9	ing of side cavated so n depth, in disposing Rock when ion in Me	es, ramming oil, and then recluding consignof surplus ere Blasting is dium Rock-5	or pipes, cable of bottoms, deturning the solidating each excavated soi Prohibited.	es, etc., include the pth up to 1. soil as required as directed,	ding exca.5m, inclured, in lay layer by r within a 0.0500 00 0.0500	avation for dding ers not samming, lead of 34.290					
2.003	Excavating trench sockets, and dress getting out the exceeding 20cm in watering, etc., and 50m, in Medium FEW excavate 250 mm DI k9	ing of side cavated so a depth, in disposing Rock when ion in Me	es, ramming oil, and then recluding consignof surplus ere Blasting is dium Rock-5 635.000	or pipes, cable of bottoms, deturning the solidating eace excavated soi Prohibited. 0.900 0.800	es, etc., include the pth up to 1. soil as required the deposited as directed, 1.200	0.0500 0.0500 0.0500	avation for dding ers not samming, lead of 34.290					
2.003	Excavating trench sockets, and dress getting out the exceeding 20cm in watering, etc., and 50m, in Medium F EW excavate 250 mm DI k9 200 mm DI k9	ing of side cavated so a depth, in disposing Rock when ion in Me	es, ramming oil, and then recluding consignor surplus established in Rock-5 635.000 1115.000 4696.000 65214.00	or pipes, cable of bottoms, deturning the solidating eace excavated soi Prohibited. 5% 0.900 0.800	es, etc., include the pth up to 1. soil as required the deposited 1 as directed, 1.200 1.150	0.0500 00 0.0500 00 0.0500 00 0.0500	avation for ding ers not amming, lead of 34.290 51.290					
2.003	Excavating trench sockets, and dress getting out the exceeding 20cm ir watering, etc., and 50m, in Medium F EW excavate 250 mm DI k9 200 mm DI k9 150 mm DI k9	ing of side cavated so a depth, in disposing Rock wher ion in Me	es, ramming oil, and then recluding consignor surplus ere Blasting is dium Rock-5 635.000 1115.000 4696.000 65214.00 0 26743.00	or pipes, cable of bottoms, deturning the solidating each excavated soi Prohibited. 5% 0.900 0.800 0.700 0.600	es, etc., include the up to 1. soil as required as directed, 1.200 1.150 1.000	0.0500 00 0.0500 00 0.0500 00 0.0500 00 0.0500	8 avation for ding ers not ramming, lead of 34.290 51.290 172.578 1956.420					
2.003	Excavating trench sockets, and dress getting out the exceeding 20cm ir watering, etc., and 50m, in Medium F EW excavat 250 mm DI k9 200 mm DI k9 150 mm DI k9 110 mm PE	ing of side cavated so a depth, in disposing Rock wher ion in Me	es, ramming oil, and then recluding consignor surplus ere Blasting is dium Rock-5 635.000 1115.000 4696.000 65214.00 0 26743.00	or pipes, cable of bottoms, deturning the solidating each excavated soi Prohibited. 5% 0.900 0.800 0.700 0.600 0.500	es, etc., include the up to 1. soil as required as directed, 1.200 1.150 1.000	0.0500 00 0.0500 00 0.0500 00 0.0500 00 0.0500 00	8 avation for ding ers not ramming, lead of 34.290 51.290 172.578 1956.420 601.718					

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity						
	materials for meas lead of 50m and li- by earth filled cem	Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m3 of blasting)											
	EW excavat	ion in har	d rock-5%										
	250 mm DI K9	1	635.000	0.900	1.200	0.0500 00	34.290						
	200 mm DI K9	1	1115.000	0.800	1.150	0.0500 00	51.290						
	150 mm DI K9	1	4696.000	0.700	1.050	0.0500 00	172.578						
	110 mm HDPE	1	65214.00 0	0.600	1.000	$0.0500 \\ 00$	1956.420						
	90 mm HDPE	1	26743.00 0	0.500	0.900	$0.0500 \\ 00$	601.718						
	Total		a St				2816.296						
			400	To	tal Quantity	y in cum	2816.296						
2.005	50.2.25.1												
	foundations etc. in layer by ramming site Engineer-in-cl Filling with con	and water narge	ring, lead up	to 50 m and I	th, consolida lift up to 1.5	ting each m as per o	deposited direction of						
	250 mm DI K9	1	635.000	0.900	1.200	0.0100 00	6.858						
	200 mm DI K9	1	1115.000	0.800	1.150	$0.0100 \\ 00$	10.258						
	150 mm DI K9	1	4696.000	0.700	1.050	$0.0100 \\ 00$	34.516						
	Total						51.632						
				To	tal Quantity	y in cum	51.632						
2.006	100.8.1												
	Fencing one side of in vertical casuaring						aution tape						
	Fencing one s	ide of trer	nches										
	250 mm DI K9	1	635.000				635.000						
	200 mm DI K9	1	1115.000				1115.000						
	150 mm DI K9	1	4696.000				4696.000						
	110 mm PE	1	64214.00 0				64214.00 0						
	90 mm PE	1	26743.00 0				26743.00 0						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Total						97403.00 0	
				Tota	al Quantity	in metre	97403.00 0	
2.007	100.59.1							
	Cutting the bituminous / concrete roads with cutting machine for a minimum 200mm along the sides of proposed alignment of the pipe to be laid without any damage to other utilities, including the charges for hire and conveyance and plant, cost of consumables and charges for lighting, watching, ribbon for caution boards, traffic diversion, and as per the direction of departmental of complete, before carrying out the demolition of bituminous / concrete road mechanical means and carrying out the excavation. Cutting the bituminous/ concrete roads							
	Cutting the bit	tuminous/	concrete roa	ıds				
	road crossing	50	5.000				250.000	
	road side	10	500.000				5000.000	
	Total		- 13°				5250.000	
			益b)	Tota	al Quantity	in metre	5250.000	
2.008	15.59		Cont.	September 1				
	Dismantling of fle disposal of disman Engineer-in-charge Dismantling of	itled mate e.	rial up to a le	e <mark>ad</mark> of 1 kilo				
	road crossing	50	5.000	0.600	0.200		30.000	
	road side	10	500.000	0.600	0.200		600.000	
	Total						630.000	
				To	tal Quantit	y in cum	630.000	
2.009	15.2.2							
	Demolishing ceme material within 50 concrete 1:4:8 lear	metres le	ad as per dire	ection of Eng	gineer - in-Cl			
	Demolishing Conc	erete						
		1	2000.000	0.800	0.150		240.000	
	Total						240.000	
				To	tal Quantit	y in cum	240.000	
2.010	100.14.2 Conveying and lay to IS: 8329 exclud K-9 Pipes.							
	Conveying an	d laying S	&S Ce	ntrifugally C	ast/Ductile I	ron pipes	-150 mm	
		1	4696.000				4696.000	
	1							

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
				Tot	al Quantity i	in metre	4696.000
2.011	18.70.2						
	Providing push - o Pipes including tes pipes						
	Providing pus	h - on-joi	nts to Centrif	fugally		T.	
	150mm dia. pipe	845					845.000
	Total						845.000
				To	tal Quantity	in joint	845.000
2.012	OD109578/2022-2	2023					
	Labour for cutting 150 mm diameter		with steel sa	ıw.			
	Labour for cutting	150 mm	DI pipe				
		52		M			52.000
	Total			@ /{!			52.00
			1000	Total Q	uantity in E	ach Cut	52.00
2.013	18.30.4						
	Providing flanged testing of joints:15	joints to o 0 mm dia	double flange meter pipe	ed C.I./ D.I p	ipes and spec	cials, inclu	ıding
	Providing flanged	d joints to	double flang	ged C.I./ D.I	pipes		
	150mm dia.pipe	20					20.00
	Total						20.00
				,	Total Quant	ity in no	20.00
2.014	100.35.2						
	Testing 150mm Di 150 mm dia Observed Data der	1 1	•		•	test pressi	ure
	Testing 150mm	DI/CI pip	eline				
	Testing 150mm DI/CI pipeline	1	4696.000				4696.000
	Total						4696.00
				Tot	al Quantity i	in metre	4696.00
2.015	100.14.3						
	Conveying and lay to IS: 8329 exclud K-9 Pipes.						
	Conveying and	l laying S	&S Cer	ntrifugally C	ast/Ductile Ir	on pipes-	200 mm
		1	1115.000				1115.000
	Total					T	1115.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
				Tot	al Quantity	in metre	1115.000		
2.016	18.70.3								
	Providing push - o Pipes including tes pipes								
	Providing push	- on-join	ts	<u> </u>		<u> </u>			
	200mm dia. pipe	200					200.000		
	Total						200.00		
				To	tal Quantity	in joint	200.00		
2.017	OD109584/2022-2	2023							
	Labour for cutting 150 mm diameter	D.I. pipe D.I. pipe	with steel sa	ıw.					
	Labour for cutting	D.I. pipe	with steel sa	w. 200 mm	diameter D.I.	pipe			
		35		W			35.00		
	Total			(D/AL)			35.00		
			1000	Total Q	uantity in E	Cach Cut	35.00		
2.018	18.30.5								
	Providing flanged testing of joints:20	joints to o 0 mm dia	double flange meter pipe	ed C.I./ D.I p	ipes and spec	cials, inclu	ıding		
	Providing flanged	d joints to	double flang	ged C.I./ D.I	pipes				
	200 mm dia. pipe	15					15.00		
	Total						15.00		
					Total Quant	ity in no	15.00		
2.019	100.35.3								
	Testing 200mm DI/CI pipeline with potable water to the required test pressure 200 mm dia Observed Data derived from item no.1020 of PHED DATA								
	Testing 200mm	DI/CI pip	eline						
	Testing 200mm DI/CI pipeline	1	1115.000				1115.00		
	Total						1115.00		
				Tot	al Quantity	in metre	1115.00		
2.020	100.14.4								
	Conveying and lay conforming to IS: Iron Class K-9 Pip	8329 excl							
	Laying 250 mm D	I Pipe							
		1	635.000				635.00		
	Total						635.00		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
				Tot	al Quantity	in metre	635.000
2.021	18.70.4						
	Providing push - o Pipes including tes pipes						
	Push on Joint						
	250 mm Dia	120	1.000			1.0000	120.000
	Total	•		'			120.000
				To	tal Quantity	in joint	120.000
2.022	18.30.6						
	Providing flanged testing of joints:25	0 mm dia		ed C.I./ D.I p	ipes and spec	cials, inclu	ıding
	flanged joint 250 r		- 1	\			
		12		SAL.			12.000
	Total		1944		T. () O (•	12.000
2.022	07100700/2020	.022		211	Total Quant	ity in no	12.000
2.023	OD109590/2022-2	100		< 11			
	Labour for cutting 250 mm diameter			M FOR THE M	ANAGEMENT		
	Labour for cutting		with steel sa	w. 250 mm o	diameter D.I.	pipe	
		15					15.000
	Total						15.000
				Total Q	Quantity in E	Cach Cut	15.000
2.024	100.35.4						
	Testing 250mm Di 250 mm dia Observed Data der		-		-	test pressi	ure .
	Testing 250 mm D	I Pipe					
	250 mm DI Pipe	1	635.000				635.000
	Total						635.000
				Tot	al Quantity	in metre	635.000
2.025	100.10.1						
	Laying HDPE pipe and aligning the pi electrofusion mach working pressure a into the trenches a before back filling appliances etc., co Diameter pipes.	pes, electrines, testi and after the lready mand level	ro-fusion we ing the pipel esting, align de, testing the ling the trend	lding using a ine thus fabri ing the pipeli ie line to suit ches includin	nutomatic or icated to suit ine, lowering able pressure ig all labour	semi-auto the hydra the pipe i with pota charge, his	matic ulic in position able water re for

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Laying HDPl	E pipes-90) mm					
		1	26743.00 0				26743.00 0	
	Total		- 1				26743.00 0	
				Tot	al Quantity	in metre	26743.00 0	
2.026	100.10.2							
	Laying HDPE pipes (IS: 4984) on land portion including conveying within initiand aligning the pipes, electro-fusion welding using automatic or semi-automate electrofusion machines, testing the pipeline thus fabricated to suit the hydraulic working pressure and after testing, aligning the pipeline, lowering the pipe in pinto the trenches already made, testing the line to suitable pressure with potable before back filling and levelling the trenches including all labour charge, hire fappliances etc., complete but excluding cost of pipe and fittings: 110mm Nomi Outer Diameter Pipes.							
	Laying HDPE	pipes-110) mm		Г			
		1	64938.00 0				64938.00 0	
	Total		P	₹ 10	E		64938.00 0	
			e-PLATFOR OF PUBLIC	M FOR TITOT	al Quantity	in metre	64938.00 0	
2.027	18.12.8							
	Providing and fixi refilling etc. Exter				tings includin	ng trenchi	ng and	
	Laying 80 mm GI	Pipe						
		1	40135.00 0				40135.00 0	
	Total						40135.00 0	
				Tot	al Quantity	in metre	40135.00 0	
2.028	100.12.9							
	Conveying and fix refilling etc., but ediameter nominal	excluding						
	Conveying and	fixing GI	pipes		Г	Г		
		1	360.000				360.000	
	Total				al Quantity		360.000 360.000	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and layi per IS 13382:Upto	ng S & S 300 mm	C.I. Standar dia	d specials su	itable for me	echanical	jointing as
	Providing and	laying S&	kamp;S C.I				
	250 mm DI	4				0.3600 00	1.440
	200 mm DI	7				0.2700 00	1.890
	150 mm DI	13				0.2000 00	2.600
	Total						5.930
				Total	Quantity in	n quintal	5.930
2.030	18.68.1					_	
	Providing and layi IS: 9523:Upt 600		ecials of clas	s K - 12 suita	ible for push	- on joint	ing as per
	Providing and	l laying D	.I /	W/-			
	250mm 90deg bend	2				0.4800 00	0.960
	250mm 45deg.bend	4		3-10		0.3600 00	1.440
	250mm22.5 deg bend	6				0.3200 00	1.920
	250mm11.25 deg bend	8	OF PUBLIC	WORKS	M4-12-12-14-16-14-1	0.3000 00	2.400
	200mm 90deg bend	2				0.3200 00	0.640
	200mm 45deg.bend	4				0.2600 00	1.040
	200mm 22.5 deg bend	8				0.2300 00	1.840
	200mm 11.25 deg bend	12				0.2100 00	2.520
	150mm 90 deg bend	6				0.2000	1.200
	150mm 45 deg bend	8				0.1600 00	1.280
	150mm 22.5 deg bend	20				0.1500 00	3.000
	150mm 11.25 deg bend	32				0.1400 00	4.480
	250x200 reducer	1				0.2800 00	0.280
	200x150 Reducer	3				0.2200 00	0.660

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	150x100 reducer	12				0.1400	1.680
	150x80 reducer	12				0.1300 00	1.560
	150x150tee	3				0.2600	0.780
	150x100 Tee	12				0.2200	2.640
	150x80tee	25				0.2000	5.000
	200x200tee	2				0.4100 00	0.820
	200x80tee	2				0.2900 00	0.580
	250mm tail piece	2		lar).		0.2800	0.560
	200mm tail piece	5	A S			0.2000	1.000
	150mm tail piece	3				0.1400	0.420
	Total			\mathbf{Z}			38.700
			e-PLATFOR	Tota	l Quantity in	n quintal	38.700
2.031	100.32.1		OF PUBLIC	WORKS			
	Conveying and fix nuts, rubber inserti required, will be p	ions etc.,	complete, bu	it excluding t	the cost of air	valve (tai	h bolts, il pieces, if
	Conveying and f	ixing C I	Single acting	g Air Valve			
	25 mm air valve	265					265.000
	Total						265.000
					Total Quant	tity in no	265.000
2.032	100.32.2			<u> </u>			
	Conveying and fix nuts, rubber inserting required, will be p	ions etc., o	complete, bu	it excluding t	the cost of air	valve (tai	h bolts, il pieces, if
	Conveying and f	ixing C I	Single acting	g Air Valve		_	
	40mm air valve	50					50.000
	Total						50.000
					Total Quant	ity in no	50.000
2.033	100.32.4						
	Conveying and fix nuts, rubber inserting required, will be particular.	ions etc.,	complete, bu	it excluding t	the cost of air	valve (tai	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Air valve									
	80 mm	12					12.000			
	Total						12.000			
				ı	Total Quant	ity in no	12.000			
2.034	100.31.1.1									
	Conveying and fix insertions etc., con will be paid separa	nplete, bu	t excluding t	he cost of the						
	Conveying and	fixing C.I	. sluice valve	es	Γ	Г				
	80 mm CI sluice valve	95					95.000			
	Total						95.000			
				,	Total Quant	ity in no	95.000			
2.035	100.31.1.2		1	W1.						
	Conveying and fix insertions etc., con will be paid separa	nplete, bu	t excluding t	he cost of the						
	Conveying and f	ixing C.I.	sluice valve	S						
	100 mm CI sluice valve	70					70.000			
	Total		OF PUBLIC	WORKS	MONOSEIVIEIN I		70.000			
				,	Total Quant	ity in no	70.000			
2.036	100.31.1.4									
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 150mm diameter, Class I.									
	Conveying and f									
	150mm CI sluice valve	9					9.000			
	Total						9.000			
				ı	Total Quant	ity in no	9.000			
2.037	100.31.1.5									
	Conveying and fix insertions etc., con will be paid separa	nplete, bu	t excluding t	he cost of the						
	Conveying and f	ixing C.I.	sluice valve	S						
	200mm CI sluice valve	5					5.000			
	Total						5.000			
					Total Quant	tity in no	5.000			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
2.038	100.31.1.6					-				
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 250mm diameter, Class I.									
	250 mm Sluice Va	alve								
		3					3.000			
	Total						3.000			
				1	Total Quant	tity in no	3.000			
2.039	OD74264/2022-20)23								
	Supply and fixing 9739(1981)	of stainle	ss steel sprin	g loaded pre	ssure relief v	alve as po	er IS			
	Pressure relief val	lve								
		30					30.000			
	Total		A	W			30.000			
			a Kiki		Total Quant	tity in no	30.000			
2.040	100.37.6.1		476							
	including cost and of painting the stee	el work w	ith two or m	ore coat delu	xe multi surf	face paint	to give an			
	even shade over ar 150 mm MS pipe	1 under-co		etc., comple	te.		100.000			
			OF PUBLIC		te.	-				
	150 mm MS pipe Total		OF PUBLIC	WORKS	te. al Quantity		100.000			
2.041	150 mm MS pipe	langes of ce charge	100.000 diameter 150 s of M.S. planore coat del	Tot Omm using 1 te, all fabric uxe multi sur	al Quantity 2mm thick Nation charges	in metre M.S. plate s, charges o give an e	100.000 100.000 100.000 including of painting even shade			
2.041	Total 100.37.6.2 Fabricating M.S. f cost and conveyan the steel work with over an under-coat	langes of ce charge a two or n to f prime	diameter 150s of M.S. planore coat del r etc., comple	Tot Omm using 1 te, all fabric uxe multi sur	al Quantity 2mm thick Nation charges	in metre M.S. plate s, charges o give an e	100.000 100.000 100.000 including of painting even shade			
2.041	Total 100.37.6.2 Fabricating M.S. f cost and conveyan the steel work with over an under-coat plates.	langes of ce charge a two or n to f prime	diameter 150s of M.S. planore coat del r etc., comple	Tot Omm using 1 te, all fabric uxe multi sur	al Quantity 2mm thick Nation charges	in metre M.S. plate s, charges o give an e	100.000 100.000 100.000 including of painting even shade			
2.041	Total 100.37.6.2 Fabricating M.S. f cost and conveyan the steel work with over an under-coat plates. Fabricating M.S f	langes of ce charge n two or n t of prime	diameter 150s of M.S. planore coat del r etc., comple	Tot Omm using 1 te, all fabric uxe multi sur	al Quantity 2mm thick Nation charges	in metre M.S. plate s, charges o give an e	100.000 100.000 100.000 including of painting even shade thick M.S.			
2.041	Total 100.37.6.2 Fabricating M.S. f cost and conveyanthe steel work with over an under-coat plates. Fabricating M.S f MS flange	langes of ce charge n two or n t of prime	diameter 150s of M.S. planore coat del r etc., comple	Tot Omm using 1 te, all fabric uxe multi sur ete: For pipe	al Quantity 2mm thick Nation charges	in metre M.S. plate s, charges give an e with 8mm	100.000 100.000 100.000 including of painting even shade thick M.S.			
	Total 100.37.6.2 Fabricating M.S. f cost and conveyanthe steel work with over an under-coat plates. Fabricating M.S f MS flange	langes of ce charge a two or not of prime langes 150 12 D.) M.S. gas, all lab	diameter 150s of M.S. planore coat del retc., comple 0mm dia	Tot Omm using 1 ate, all fabrication uxe multi surete: For pipe	al Quantity 2mm thick Mation charges rface paint to s fabricated with the control of the contro	in metre A.S. plate so, charges or give an ewith 8mm tity in no	100.000 100.000 100.000 100.000 including of painting even shade thick M.S. 12.000 12.000 12.000 as cutting			
	Total 100.37.6.2 Fabricating M.S. f cost and conveyan the steel work with over an under-coat plates. Fabricating M.S f MS flange Total 100.37.6.3 Cutting 150mm (Lincluding cost of g	langes of ce charge a two or not of prime langes 150 12 D.) M.S. gas, all lab	diameter 150s of M.S. planore coat del retc., comple 0mm dia	Tot Omm using 1 ate, all fabrication uxe multi surete: For pipe	al Quantity 2mm thick Mation charges rface paint to s fabricated with the control of the contro	in metre A.S. plate so, charges or give an ewith 8mm tity in no	100.000 100.000 100.000 100.000 including of painting even shade thick M.S. 12.000 12.000 12.000 as cutting			

	Specification	No	Length	Width	Depth	Cf	Quantity		
	Total						24.000		
				ı	Total Quant	ity in no	24.000		
2.043	100.37.6.4								
	Welding 150mm (welding machine i tools etc., complete	ncluding of	cost of gas ar	nd welding r	ods, all labou	r and hire	as/electric charges of		
	Welding MS pipe								
	Welding	24					24.000		
	Total						24.000		
				I	Total Quant	ity in no	24.000		
2.044	100.37.6.5								
	including all labou 8mm thick M.S. pl Grinding MS pipe	ates.	cnarges of t	oois etc., coi	mpiete: For p	ipes rabric			
	Grinding	48	1000				48.000		
	Total	_		311	T. () 0 (•	48.000		
2015	100.05.5.1	-	_	< 11	Total Quant	ity in no	48.000		
2.040	In situ fabrication of M.S. pipes of size 200mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete. Fabricating M.S pipe of 200mm Dia								
2.045	In situ fabrication including cost and of painting the stee even shade over ar	conveyanel work winder-co	ice charges of the two or motor of primer	f M.S. plate, ore coat delu	, all fabrication exe multi surf	on charges	s, charges		
	In situ fabrication including cost and of painting the stee even shade over ar	conveyanel work winder-co	ice charges of the two or motor of primer	f M.S. plate, ore coat delu	, all fabrication exe multi surf	on charges	s, charges to give an		
	In situ fabrication including cost and of painting the stee even shade over ar Fabricating M.S pi	conveyantel work with under-co	ace charges of the two or motor of primer mm Dia	f M.S. plate, ore coat delu	, all fabrication exe multi surf	on charges	s, charges to give an		
	In situ fabrication including cost and of painting the stee even shade over ar Fabricating M.S pi	conveyantel work with under-co	ace charges of the two or motor of primer mm Dia	f M.S. plate, ore coat delu etc., comple	, all fabrication xe multi surf ste.	on charges ace paint	60.000 60.000		
	In situ fabrication including cost and of painting the stee even shade over ar Fabricating M.S pi	conveyantel work with under-co	ace charges of the two or motor of primer mm Dia	f M.S. plate, ore coat delu etc., comple	, all fabrication exe multi surf	on charges ace paint	60.000 60.000		
	In situ fabrication including cost and of painting the stee even shade over an Fabricating M.S pi	conveyantel work with under-continuous fipe of 200 langes of ce charges at two or metal work work work work with the conveyanter to the conveyanter of the conveyante	diameter 200 s of M.S. pla	f M.S. plate, ore coat deluetc., comple Tot Omm using 1 te, all fabric uxe multi sur	all fabrication and the control of t	in metre I.S. plate i , charges give an e	60.000 60.000 60.000 ncluding of painting yen shade		
	In situ fabrication including cost and of painting the stee even shade over an Fabricating M.S pi MS Fabrication Total 100.37.7.2 Fabricating M.S. f cost and conveyanthe steel work with over an under-coat	langes of ece charges a two or me	diameter 200 s of M.S. planore coat delar etc., comple	Tot Omm using 1 te, all fabric uxe multi sure ete: For pipe	all fabrication and the control of t	in metre I.S. plate i , charges give an e	60.000 60.000 60.000 ncluding of painting yen shade		
	In situ fabrication including cost and of painting the stee even shade over ar Fabricating M.S pi MS Fabrication Total 100.37.7.2 Fabricating M.S. f cost and conveyan the steel work with over an under-coat plates.	langes of ece charges a two or me	diameter 200 s of M.S. planore coat delar etc., comple	Tot Omm using 1 te, all fabric uxe multi sure ete: For pipe	all fabrication and the control of t	in metre I.S. plate i , charges give an e	60.000 60.000 60.000 ncluding of painting ven shade thick M.S.		
	In situ fabrication including cost and of painting the stee even shade over ar Fabricating M.S pi MS Fabrication Total 100.37.7.2 Fabricating M.S. f cost and conveyanthe steel work with over an under-coat plates. Fabricating M.S.	langes of two or metal two or metal two or metal transports of primer	diameter 200 s of M.S. planore coat delar etc., comple	Tot Omm using 1 te, all fabric uxe multi sure ete: For pipe	all fabrication and the control of t	in metre I.S. plate i , charges give an e	60.000 60.000 60.000 ncluding of painting yen shade		
	In situ fabrication including cost and of painting the stee even shade over ar Fabricating M.S pi MS Fabrication Total 100.37.7.2 Fabricating M.S. f cost and conveyanthe steel work with over an under-coat plates. Fabricating M.S. MS flange	langes of two or metal two or metal two or metal transports of primer	diameter 200 s of M.S. planore coat delar etc., comple	Tot Omm using 1 te, all fabric uxe multi sure ete: For pipe	all fabrication and the control of t	in metre I.S. plate if the charges of give an equition with 8mm	60.000 60.000 60.000 ncluding of painting ven shade thick M.S.		

	Specification	No	Length	Width	Depth	Cf	Quantity				
	Cutting 200mm (Including cost of gabricated with 8m	as, all lab	our and hire								
	Cutting M.S pipe										
	Cutting	24					24.000				
	Total						24.000				
	Total Quantity in no 24.000										
2.048	100.37.7.4										
	Welding 200mm (welding machine i tools etc., complet	ncluding o	cost of gas a	nd welding re	ods, all labou	ır and hire					
	Welding MS pipe										
	Welding	24					24.000				
	Total			3-5			24.000				
			- 68°		Total Quant	ity in no	24.000				
2.049	100.37.7.5		44154								
	Grinding cut and vincluding all labou 8mm thick M.S. p	r and hire									
	Grinding MS pipe)	e-PLATFOR	M FOR THE M	ANAGEMENT						
	Grinding	48	OF PUBLIC	WORKS			48.000				
	Total						48.000				
				,	Total Quant	ity in no	48.000				
• •											
2.050	2.0.1		Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil								
2.050	Earth work in exca in foundation trend including dressing out the excavated of 50 m.All kinds	ches or dra of sides a soil and di of soil	nins (not exc and ramming sposal of sur	eeding 1.5 m of bottoms, rplus excavat	in width or lift up to 1.5 ted soil as dii	10 sqm or m, includ	n plan), ling getting				
2.050	Earth work in exca in foundation trend including dressing out the excavated of 50 m.All kinds	ches or dra of sides a soil and di of soil	nins (not exc nd ramming sposal of sur e chamber of	eeding 1.5 m of bottoms, rplus excavat	in width or lift up to 1.5 ted soil as din	10 sqm or m, includ	n plan), ling getting				
2.050	Earth work in exca in foundation trend including dressing out the excavated of 50 m.All kinds Earth work	ches or dra of sides a soil and di of soil	nins (not exc and ramming sposal of sur	eeding 1.5 m of bottoms, rplus excavat	in width or lift up to 1.5 ted soil as dii	10 sqm or m, includ	n plan), ling getting				
2.050	Earth work in exca in foundation trend including dressing out the excavated of 50 m.All kinds	ches or dra of sides a soil and di of soil	nins (not exc nd ramming sposal of sur e chamber of	eeding 1.5 m of bottoms, rplus excavat	in width or lift up to 1.5 ted soil as din	10 sqm or m, includ	n plan), ling getting thin a lead				
2.050	Earth work in excain foundation trending dressing out the excavated of 50 m.All kinds Earth work Sluice valves For 80 mm Air	ches or dra of sides a soil and di of soil k for valve	nins (not exc nd ramming sposal of sur e chamber of 1.700	eeding 1.5 m of bottoms, rplus excavate 1.500	in width or lift up to 1.5 ted soil as din	10 sqm or m, includ	n plan), ling getting thin a lead				
2.050	Earth work in excain foundation trendincluding dressing out the excavated of 50 m.All kinds Earth work Sluice valves For 80 mm Air valve	ches or dra of sides a soil and di of soil k for valve	nins (not exc nd ramming sposal of sur e chamber of 1.700	eeding 1.5 m of bottoms, rplus excavate 1.500	in width or lift up to 1.5 ted soil as din	10 sqm or m, include rected, wi	a plan), ling getting thin a lead 420.750 45.900				
	Earth work in excain foundation trendincluding dressing out the excavated of 50 m.All kinds Earth work Sluice valves For 80 mm Air valve	ches or dra of sides a soil and di of soil x for valve 110	nins (not exc nd ramming sposal of sur e chamber of 1.700	eeding 1.5 m of bottoms, rplus excavate 1.500	in width or lift up to 1.5 ted soil as din 1.500	10 sqm or m, include rected, wi	420.750 466.650				
	Earth work in excain foundation trendincluding dressing out the excavated of 50 m.All kinds Earth work Sluice valves For 80 mm Air valve Total	ches or dra of sides a soil and di of soil x for valve 110 12	nins (not exc and ramming sposal of sur- e chamber of 1.700 1.700	eeding 1.5 m of bottoms, rplus excavat Size 1x1x1 1.500 1.500 Total	in width or lift up to 1.5 ted soil as directly as dir	10 sqm or m, include ected, wi	420.750 45.900 466.650				
	Earth work in excain foundation trending dressing out the excavated of 50 m.All kinds Earth work Sluice valves For 80 mm Air valve Total OD109570/2022-2 Earthwork excavated to the excavated of 50 m.All kinds	ches or dra of sides a soil and di of soil x for valve 110 12	nins (not exc and ramming sposal of sur- e chamber of 1.700 1.700	eeding 1.5 m of bottoms, rplus excavat Size 1x1x1 1.500 1.500 Total	in width or lift up to 1.5 ted soil as directly as dir	10 sqm or m, include ected, wi	420.750 45.900 466.650				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	For 80 mm Air valve	12	1.700	1.500	0.300		9.180
	Total						93.330
				To	otal Quantit	y in cum	93.330
2.052	4.1.6						
	Providing and layi of centering and sl sand : 6 graded sto	nuttering -	- All work up	to plinth lev	el:1:3:6 (1 d		
	PCC						
	valve chamber of size 1*1*1.3 m	122	1.700	1.700	0.100		35.258
	Total						35.258
				To	otal Quantit	y in cum	35.258
2.053	4.1.3			la fi			
	Providing and layi of centering and sh (zone-III) : 4 grade	nuttering - ed stone a	- All work up ggregate 20 i	to plinth lev	el:1:2:4 (cer	de excludinent : 2 co	ing the cost oarse sand
	Concrete for A			716			
	Anchor block	52	0.800	0.800	0.800		26.624
	Deduction of pipe volume for Anchor block large	-52	3.14*.1*. 1	M FOR THE M WORKS	0.800		-1.306
	Anchor block small	266	0.600	0.600	0.600		57.456
	Deduction of pipe volume for Anchor block small	-266	3.14*.075 *.075		0.600		-2.819
	Total						79.955
				To	otal Quantit	y in cum	79.955
2.054	5.1.2						
	Providing and layi excluding the cost to plinth level:1:1: nominal size	of center	ing, shutterin	g, finishing a	and reinforce	ement - Al	ll work up
	Providing and	l laying ir	n position spe	ecified grade	of reinforce	d cement	concrete
	valve chamber base	122	1.500	1.500	0.150		41.175
	valve chamber - side wall	122	2*1.5+2* 1	1.300	0.250		198.250
	valve chamber - cover slab	122	1.500	1.500	0.250		68.625

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Total						308.050				
				To	tal Quantit	y in cum	308.050				
2.055	5.9.1										
	Centering and shuttering including strutting, etc. and removal of form for:Foundations footings, bases of columns, etc for mass concrete										
	Centering and shu	uttering									
	valve chamber - side wall inside	122	4.000		1.300		634.400				
	valve chamber - side wall out side	122	6.000		1.300		951.600				
	cover slab	122	1.500	1.500			274.500				
	cover slab- sides	122	6.000		0.250		183.000				
	For anchor block	52	3.200		0.800		133.120				
	For anchor block small	266	1.800		0.800		383.040				
	Total			241			2559.660				
	_		-codition	To	tal Quantit	y in sqm	2559.660				
2.056	5.22.6			3-16							
	Steel reinforcement in position and bin bars of grade Fe-50	ding all c	omplete upto	iding straigh plinth level	tening, cuttir Thermo - Me	ng, bendin echanicall	g, placing y Treated				
	Steel reinford	ement for	r R.C.C work	ζ							
	For valve chamber	1	308.050			60.000 000	18483.00 0				
	For Anchor block	1	79.955			30.000 000	2398.650				
	Total						20881.65 0				
				Total Q	Quantity in k	xilogram	20881.65 0				
3	Providing FHTC to	various	Zones								
	100.60.13.1.2										

Cf No Width Quantity Sl No **Specification** Length **Depth** Providing 15mm (1/2 inch) house connection with 15mm water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. Providing 15mm (1/2 inch) house connection with 15mm water meter from existing PVC / HDPE Providing 15mm (1/2 inch) house 1322 1322.000 connection **Total** 1322.000 1322.000 **Total Quantity in no** 3.002 | 100.60.13.3.2 Providing 20mm (3/4 inch) house connection with 15mm water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5m using 25mm (3/4 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter and weather with ISI mark resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. Providing 20mm (3/4 inch) house connection with 15mm water meter from existing PVC / HDPE Providing 20mm (3/4 inch) house 1113 1113.000 connection 1113.000 Total **Total Quantity in no** 1113.000 3.003 | 100.60.13.7.2

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Providing 15mm (1/2 inch) house connection with 15mm water meter from ex mains up to 125 mm dia., up to a length of 5 m using 20mm (1/2 inch) PE Pip PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Com / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way valve, bend, MTA, FTA, couplers etc. and connecting with the mains, testing tec. complete including trenching and refilling in all kinds of soil up to a depth 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m laying connection pipe and service pipe, fixing water meter, lighting, watching providing caution boards, traffic control etc. complete including cost of materi for tools, cost of consumables and labour charges, including the cost of tested Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the department of the providing 15mm (1/2 inch) house connection with 15mm water meter from							
	Providing 15n existing CI mains	nm (1/2 in	nch) house co	onnection wi	th 15mm wat	ter meter f	From	
	Providing 15mm (1/2 inch) house connection	598	(18)				598.000	
	Total		400				598.000	
					Total Quant	ity in no	598.000	
3.004	100.60.13.9.2	100				-		
	Providing 20mm (mains up to 125 m PE80, PN16, Conf / GM / Brass specivalve, bend, MTA etc. complete inclu1.50m for main lineling connection providing caution for tools, cost of complete water met minimum size 300 concrete / tarred / officers	m dia., up forming to als viz. br , FTA, co ding trend the tracing pipe and st boards, tra onsumable er with IS mm x 200	to a length IS 4984: 20 cass ferrule, luplers etc. and ching and reand trench of service pipe, affic control es and labou If mark and volume x 150m	of 5 m using of 6 or later educates hexago and connecting filling in all land f average cro- fixing water etc. complet r charges, indexeather resistant, but exclu-	25mm (3/4 dition and PF nal nipple, G g with the makinds of soil loss section 0. meter, lightie including coluding the cant PP / PE ding charges	inch) PE PN 16 C M full water ains, testing up to a de 3m x 0.75 ng, watch ost of mater ost of testing meter box	Pipe, ompression by wheel ling the joints pth of om for ling, terials, hire led Class B of ling the	
	Providing 20m CI mains	m (3/4 inc	h) house cor	nnection with	15mm wate	r meter fr	om existing	
	Providing 20mm (3/4 inch) house connection	922					922.000	
	Total						922.000	
					Total Quant	ity in no	922.000	
3.005	100.60.14.7.2							

Cf No Width Sl No **Specification** Length **Depth** Quantity Providing 15mm (1/2 inch) house connection with 15mm water meter from existing CI mains from 150mm to 200mm dia., up to a length of 5 m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. Providing 15mm (1/2 inch) house connection with 15mm water meter from existing CI mains Providing 15mm (1/2 inch) house 121 121.000 connection **Total** 121.000 121.000 **Total Quantity in no** 3.006 100.60.14.9.2 Providing 20mm (3/4 inch) house connection with 15mm water meter from existing CI mains from 150mm to 200mm dia., up to a length of 5 m using 25mm (3/4 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers. Providing 20mm (3/4 inch) house connection with 15mm water meter from existing CI mains Providing 20mm (3/4 inch) house 152 152.000 connection Total 152.000 **Total Quantity in no** 152.000 3.007 | 100.60.21.1.1

	Specification	No	Length	Width	Depth	Cf	Quantity			
	Providing 15mm (water connection, 4984: 2016 or late materials, consum directions of the d	using 20n r edition a ables, hire	nm (1/2 inchand PP PN 10 e for tools an	n) PE Pipe, I 6 Compressio	PE80, PN16, on specials in	Conformincluding c	ng to IS ost of			
	Providing 15mm	(1/2 inch) GM Air Va	lve						
	Providing 15mm (1/2 inch) GM Air Valve	2041					2041.000			
	Total						2041.000			
				I	Total Quant	ity in no	2041.000			
3.008	100.60.21.2.1									
	Providing 20mm (water connection, 4984: 2016 or late materials, consum directions of the d	using 25n r edition a ables, hire epartment	nm (3/4 inchand PP PN 10 e for tools and officers.	n) PE Pipe, I 6 Compression d labour cha	PE80, PN16, on specials in	Conformicluding c	ng to IS ost of			
	Providing 20mm	(3/4 inch	ı) GM Air V	alve						
	Providing 20mm (3/4 inch) GM Air Valve	2187		715	TE		2187.000			
	Total		C-PLATEOR	M FOR THE M	ANAGEMENT		2187.000			
	Total Quantity in no 2187.00									
3.009	100.60.23.3.1									
3.009	Providing 15mm I connection, using specials and PP PI hire charges for to	20mm (1 N 16 Com ols and la	/2 inch) Indepression spe	ian Standard cials includir	uPVC Class ng cost of ma	6 pipes, u terials, co	nPVC onsumables,			
3.009	Providing 15mm I connection, using specials and PP PI hire charges for to departmental office	20mm (1 N 16 Comols and laers.	/2 inch) Indepression spe	ian Standard cials includir	uPVC Class ng cost of ma	6 pipes, u terials, co	nPVC onsumables,			
3.009	Providing 15mm I connection, using specials and PP PI hire charges for to	20mm (1 N 16 Comols and laers.	/2 inch) Indepression spe	ian Standard cials includir	uPVC Class ng cost of ma	6 pipes, u terials, co	nPVC onsumables, ion of			
3.009	Providing 15mm I connection, using specials and PP PI hire charges for to departmental offic Providing 15mm Providing 15mm	20mm (1 N 16 Com ols and la ers. PVC tap	/2 inch) Indepression spe	ian Standard cials includir	uPVC Class ng cost of ma	6 pipes, u terials, co	pPVC onsumables, ion of 2041.000			
3.009	Providing 15mm I connection, using specials and PP Ph hire charges for to departmental offic Providing 15mm PVC tap	20mm (1 N 16 Com ols and la ers. PVC tap	/2 inch) Indepression spe	ian Standard cials includir s etc. comple	uPVC Class ng cost of ma	6 pipes, u terials, co the direct	2041.000			
	Providing 15mm I connection, using specials and PP Ph hire charges for to departmental offic Providing 15mm PVC tap	20mm (1 N 16 Com ols and la ers. PVC tap	/2 inch) Indepression spe	ian Standard cials includir s etc. comple	uPVC Class ng cost of ma te and as per	6 pipes, u terials, co the direct	2041.000			
	Providing 15mm I connection, using specials and PP PI hire charges for to departmental offic Providing 15mm Providing 15mm PVC tap Total	20mm (1 N 16 Com ols and la ers. PVC tap 2041 25mm (3 N 16 Com ols and la	/2 inch) Ind pression spe- bour charges in the water i /4 inch) Ind pression spe-	ian Standard cials includir s etc. comple meter assembian Standard cials includir	uPVC Class ag cost of mate and as per Total Quant Class 6 uPV ag cost of ma	dity in no (3/4 incl C pipes, u tterials, co	2041.000 2041.000 2041.000 h) water			
	Providing 15mm I connection, using specials and PP Ph hire charges for to departmental offic Providing 15mm PVC tap Total 100.60.23.4.1 Providing 15mm I connection, using specials and PP Ph hire charges for to	20mm (1 N 16 Com ols and la ers. PVC tap 2041 PVC Tap is 25mm (3 N 16 Com ols and la ers.	/2 inch) Ind pression spe- bour charges in the water i /4 inch) Ind pression spe-	ian Standard cials includir s etc. comple meter assembian Standard cials includir	uPVC Class ag cost of mate and as per Total Quant Class 6 uPV ag cost of ma	dity in no (3/4 incl C pipes, u tterials, co	2041.000 2041.000 2041.000 h) water			
	Providing 15mm F connection, using specials and PP Ph hire charges for to departmental offic Providing 15mm PVC tap Total 100.60.23.4.1 Providing 15mm F connection, using specials and PP Ph hire charges for to departmental offic	20mm (1 N 16 Com ols and la ers. PVC tap 2041 PVC Tap is 25mm (3 N 16 Com ols and la ers.	/2 inch) Ind pression spe- bour charges in the water i /4 inch) Ind pression spe-	ian Standard cials includir s etc. comple meter assembian Standard cials includir	uPVC Class ag cost of mate and as per Total Quant Class 6 uPV ag cost of ma	dity in no (3/4 incl C pipes, u tterials, co	2041.000 2041.000 2041.000 h) water			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
				-	Total Quant	tity in no	2187.000		
3.011	100.60.15.1.1								
	Providing additional length of house connection pipe using 20 mm (1/2 inch) PE Pipe PE80, PN16, Conforming to IS 4984: 2016 or later edition and PN16 specials and testing the joints etc., by trenching and refilling in all kinds of soil with trench of average cross section 0.3m x 0.75m for laying of connection pipe and service pipe, lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per th directions of the department officers.								
	Providing addition	nal lengtl	of house co	nnection pip	e using 20 m	ım			
	Providing additional length of house connection pipe using 20 mm	2041	24.000				48984.00 0		
	Total		A S	i dan			48984.00 0		
			and the second	Tot	al Quantity	in metre	48984.00 0		
3.012	100.60.15.2.1			7 11					
	Providing additional length of house connection pipe using 25 mm (3/4 inch) PE Pipe PE80, PN16, Conforming to IS 4984: 2016 or later edition and PN 16 specials and testing the joints etc., by trenching and refilling in all kinds of soil with trench of average cross section 0.3m x 0.75m for laying of connection pipe and service pipe, lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per th directions of the department officers.								
	Providing addition	nal lengtl	of house co	nnection pip	e using 25 m	ım			
	Providing additional length of house connection pipe using 25 mm	2187	48.000				104976.0 00		
	Total						104976.0 00		
	Total Quantity in metre								
3.013	100.59.1								

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.								
	Cutting the bitu	ıminous /	concrete roa	ds with cutti	ng machine				
	Crossing	150	8.000			2.0000	2400.000		
	road edge	250	4.000			4.0000 00	4000.000		
	Total						6400.000		
				Tot	al Quantity	in metre	6400.000		
3.014	15.59								
	Dismantling of fle disposal of disman Engineer-in-charg	ıtled mate							
	Dismantling of	flexible	pavement (b	ituminous co	ourses) by m	echanical	means		
	road crossing	150	4.000	0.300	0.500		90.000		
	road edge	250	1.000	1.000	0.600		150.000		
	Total		OF PUBLIC	M FOR THE M WORKS	IANAGEMENT		240.000		
				To	otal Quantit	y in cum	240.000		
3.015	100.60.8.1								
	Replacing the chocked / damaged 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing mains, up to a length of 5m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / Brass specials viz. brass ferrule, Elbow, MTA, FTA, couplers etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, safely removing & re-fixing existing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges but excluding cost of water meter and meter box and excluding charges for cutting the concrete / tarred / bituminous roads and as per the directions of the department officers Replacing the chocked / damaged 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter								
	Replacing the chocked /	2007							
	damaged 15mm (1/2 inch) house connection	2807					2807.000		
	(1/2 inch) house	2807					2807.000 2807.000		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantit			
3.016	4.1.3									
	Providing and laying in position cement concrete of specified grade excluding the confidence of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)									
	cement concrete	1:2:4								
	for road concrete	150	4.000	0.300	0.150		27.00			
	for road concrete	250	1.000	1.000	0.150		37.50			
	Total						64.50			
				To	tal Quantity	in cum	64.50			
4	Road Restoration	Charges								
4.001	3.11									
	Removal of unserventeres lead but ex as per clause 305.									
	Removal of unse	rviceable	soil							
	PWD berm	1	30500.00 0	0.800	0.200		4880.00			
	PWD CC	1	5500.000	0.800	0.400		1760.00			
	PWD TC	1	500.000	0.800	0.500		200.00			
	SH berm	1	20500.00 0	0.800	0.200		3280.00			
	SH CC	1	5500.000	0.800	0.500		2200.00			
	SH TC	1	250.000	0.800	0.500		100.00			
	SH interlock	1	1250.000	0.800	0.400		400.00			
	Total									
				To	tal Quantity	in cum	12820.0			
4.002	10.2					<u>.</u>				
- 3-	Maintenance of Earthen Shoulder (filling with fresh soil) Making up the loss of material/irregularities on the shoulder to the design level by adding fresh approved soil and compacting it with appropriate equipment.									
	maintenance of shoulder									
	PWD berm	1	30500.00	0.800	0.200		4880.00			
	Total						4880.00			
				To	tal Quantity	y in sqm	4880.00			
4 003	4.2.A.1									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Construction of gr layers with a moto rotavator at OMC, density, complete Method	r grader o and comp	on a prepared pacting with a	surface, mix a vibratory ro	ing by mix in oller to achie	n-place m	ethod with sired
	GSB						
	PWD CC	1	5500.000	0.800	0.250		1100.000
	PWD TC	1	500.000	0.800	0.250		100.000
	SH berm	1	20500.00	0.800	0.200		3280.000
	SH CC	1	5500.000	0.800	0.250		1100.000
	SH TC	1	250.000	0.800	0.250		50.000
	SH interlock	1	1250.000	0.800	0.300		300.000
	Total						5930.000
				- 65			5930.000
				To	tal Quantity	y in cum	3330.000
4.004	4.12 Providing, laying, Macadam specific mechanical mix pl	ation incluant carriage	uding premix ge of mixed N	ting graded s ing the Mate Material by ti	rial with wat apper to site,	ate to Weter at OMe	t Mix C in uniform
4.004	Providing, laying, Macadam specific	ation inclu ant carriag n sub- bas	uding premi <mark>x</mark> ge of mixed N se / base cour	ting graded sing the Mate Material by the See on well produced density.	tone aggregarial with wat	ate to Weter at OMe	t Mix C in uniform
4.004	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll	ation inclu ant carriag n sub- bas	uding premix ge of mixed N se / base cour eve the desire	ting graded sing the Mate Material by the See on well produced density.	tone aggregarial with wat	ate to Weter at OMe	Mix C in uniform empacting
4.004	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM	ation inclu ant carriag n sub- bas	uding premix ge of mixed N se / base cour eve the desire	ting graded sing the Mate Material by the see on well produced density.	tone aggregarial with wat ipper to site, repared surfa	ate to Weter at OMe	Mix C in uniform empacting
4.004	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM PWD TC	ation inclu ant carria n sub- bas er to achie	uding premix ge of mixed N se / base cour eve the desire	ting graded sing the Mate Material by tise on well pred density.	tone aggregarial with wat apper to site, repared surfa	ate to Weter at OMe	t Mix C in uniform impacting 100.000 1100.000
4.004	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM PWD TC SH CC	ation incluant carriagn sub- baser to achie	uding premix ge of mixed Nee / base cour eve the desire 500.000 5500.000	ting graded sing the Mate Material by the se on well produced density. 0.800 0.800	tone aggregarial with wat apper to site, repared surfare 0.250 0.250	ate to Weter at OMe	Mix C in uniform ompacting 100.000 1100.000 50.000
4.004	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM PWD TC SH CC SH TC	ation incluant carriagn sub- baser to achie	uding premix ge of mixed Nee / base cour eve the desire 500.000 5500.000	ting graded sing the Mate Material by tise on well produced density. 0.800 0.800 0.800	tone aggregarial with wat apper to site, repared surfared surfared 0.250 0.250 0.250	ate to Weter at OMolaying in acce and co	100.000 1100.000 1250.000
4.004	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM PWD TC SH CC SH TC Total	ation incluant carriagn sub- baser to achie	uding premix ge of mixed Nee / base cour eve the desire 500.000 5500.000	ting graded sing the Mate Material by tise on well produced density. 0.800 0.800 0.800	tone aggregarial with wat apper to site, repared surfare 0.250 0.250	ate to Weter at OMolaying in acce and co	100.000 1100.000 1250.000
	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM PWD TC SH CC SH TC Total	ation incluant carriagn sub- baser to achie	ge of mixed Notes base courselve the desires 500.000 5500.000 250.000 ner coat with elearing of roa	ting graded sing the Mate Material by the Se on well produced density. 0.800 0.800 To bitumen emond surface and	tone aggregarial with wat apper to site, repared surfared	ate to Weter at OMolaying in ace and co	100.000 1100.000 1250.000
	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM PWD TC SH CC SH TC Total 5.1.a Providing and app of granular Base in	ation incluant carriagn sub- baser to achie	ge of mixed Notes base courselve the desires 500.000 5500.000 250.000 ner coat with elearing of roa	ting graded sing the Mate Material by the Se on well produced density. 0.800 0.800 To bitumen emond surface and	tone aggregarial with wat apper to site, repared surfared	ate to Weter at OMolaying in ace and co	100.000 1100.000 1250.000
	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM PWD TC SH CC SH TC Total 5.1.a Providing and app of granular Base in 0.70 - 1.0 kg/sqm	ation incluant carriagn sub- baser to achie	ge of mixed Notes base courselve the desires 500.000 5500.000 250.000 ner coat with elearing of roa	ting graded sing the Mate Material by the Se on well produced density. 0.800 0.800 To bitumen emond surface and	tone aggregarial with wat apper to site, repared surfared	ate to Weter at OMolaying in ace and co	100.000 1100.000 1250.000 1250.000 ed surface he rate of
	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM PWD TC SH CC SH TC Total 5.1.a Providing and app of granular Base in 0.70 - 1.0 kg/sqm prime coat	ation incluant carriagn sub- baser to achie	se / base coureve the desired 500.000 250.000 250.000	ting graded sing the Mate Material by tise on well produced density. 0.800 0.800 0.800 To bitumen emulad surface and s.	tone aggregarial with wat apper to site, repared surfared	ate to Weter at OMolaying in ace and co	100.000 100.000 1100.000 1250.000 1250.000 ed surface the rate of
	Providing, laying, Macadam specific mechanical mix pl layers with paver i with vibratory roll WMM PWD TC SH CC SH TC Total 5.1.a Providing and app of granular Base in 0.70 - 1.0 kg/sqm prime coat PWD TC	ation incluant carriagn sub- baser to achie	se / base coureve the desire 500.000 5500.000 250.000 mer coat with clearing of roachanical mear	ting graded sing the Mate Material by the Material by the Se on well produced density. 0.800 0.800 To bitumen emulad surface and surface	tone aggregarial with wat apper to site, repared surfared	ate to Weter at OMolaying in ace and co	100.000 100.000 100.000 1250.000 1250.000 ed surface he rate of

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Providing, laying and rolling of close-graded premix surfacing material of 2 thickness composed of 11.2 mm to 0.09 mm (Type-A) aggregates using visc grade bitumen (VG - 30) to the required line, grade, and level to serve as we course on a previously prepared base, including mixing in a suitable HMP o appropriate capacity not less than 75 tonnes/hour., laying and rolling with a wheeled roller 8-10 tonne capacity, and finishing to the required level and g								
	PWD TC								
	close graded premix	1	500.000	1.200			600.000		
	Total						600.000		
				To	otal Quantit	y in sqm	600.000		
4.007	5.8.a								
	Providing and layi stone aggregates o prepared surface a 19 mm nominal ch pwd tc	of specified and rolling	d size on a la with 8-10 to	yer of bitum	inous binder	(VG 30)	laid on the		
	close graded		500.000	1 200			600.000		
	premix	I	300.000	1.200					
		1	300.000	1.200			600.000		
	Total	1	300.000	≯ 11	otal Quantit	y in sqm	600.000		
4.008	Total 5.2.b	luin a to all	e-PLATFOR OF PUBLIC	M FOR THE M	ANAGEMENT		600.000		
4.008	Total	ate of 0.25	coat with bi 5 - 0.30 kg pe	To	ion (RS) usi	ng emulsi	600.000 on pressure		
4.008	Total 5.2.b Providing and app distributor at the ra	ate of 0.25	coat with bi 5 - 0.30 kg pe	To	ion (RS) usi	ng emulsi	600.000 on pressure		
4.008	5.2.b Providing and app distributor at the racleaned with mech	ate of 0.25	coat with bi 5 - 0.30 kg pe	To	ion (RS) usi	ng emulsi	on pressure		
4.008	5.2.b Providing and app distributor at the racleaned with mechanical tack coat	ate of 0.25 nanical bro	coat with bi 5 - 0.30 kg pe boom.	tumen emuls	ion (RS) usi	ng emulsi	on pressure arface		
4.008	5.2.b Providing and app distributor at the racleaned with mechatack coat PWD TC	ate of 0.25 nanical bro	coat with bi 5 - 0.30 kg pe boom.	tumen emulser sqm on the	ion (RS) usi	ng emulsi	600.000 on pressure race 600.000 300.000		
4.008	5.2.b Providing and app distributor at the racleaned with mech tack coat PWD TC SH TC	ate of 0.25 nanical bro	coat with bi 5 - 0.30 kg pe boom.	tumen emulser sqm on the	ion (RS) usi	ng emulsi ranular Su	600.000 on pressure race 600.000 300.000		
	5.2.b Providing and app distributor at the racleaned with mech tack coat PWD TC SH TC	ate of 0.25 nanical bro	coat with bi 5 - 0.30 kg pe boom.	tumen emulser sqm on the	ion (RS) usice prepared Gr	ng emulsi ranular Su	600.000 on pressure arface 600.000 300.000 900.000		
	premix Total 5.2.b Providing and app distributor at the racleaned with mech tack coat PWD TC SH TC Total	and of 0.25 manical broad and an ical broad	coat with bit 5 - 0.30 kg per born. 500.000 250.000 nous macadanes per hour binder (VG with paver ficlauses 501.6	tumen emulser sqm on the 1.200 1.200 To m with 80-1 using crusher 30), transportinisher to the	otal Quantit Of TPH hotal aggregates aggregates aggregated to the site required grantic aggregated to the site required grantic aggregates.	y in sqm mix plant of specifice, laid over	600.000 on pressure arface 600.000 300.000 900.000 producing ed grading er a and		
	5.2.b Providing and app distributor at the racleaned with mech tack coat PWD TC SH TC Total 5.3.2.a Providing and layi an average output premixed with a bipreviously prepare alignment and roll For Grading II - (1)	and of 0.25 manical broad and of 75 tonrituminous ed surface ed as per of 19 mm nor	coat with bit 5 - 0.30 kg per born. 500.000 250.000 nous macadanes per hour binder (VG with paver ficlauses 501.6	tumen emulser sqm on the 1.200 1.200 To m with 80-1 using crusher 30), transportinisher to the	otal Quantit Of TPH hotal aggregates aggregates aggregated to the site required grantic aggregated to the site required grantic aggregates.	y in sqm mix plant of specifice, laid over	600.000 on pressure arface 600.000 300.000 900.000 producing ed grading er a and		
	5.2.b Providing and app distributor at the racleaned with mechanic tack coat PWD TC SH TC Total 5.3.2.a Providing and laying an average output premixed with a bepreviously prepare alignment and roll	and of 0.25 manical broad and of 75 tonrituminous ed surface ed as per of 19 mm nor	coat with bit 5 - 0.30 kg per born. 500.000 250.000 nous macadanes per hour binder (VG with paver ficlauses 501.6	tumen emulser sqm on the 1.200 1.200 To m with 80-1 using crusher 30), transportinisher to the	otal Quantit Of TPH hotal aggregates aggregates aggregated to the site required grantic aggregated to the site required grantic aggregates.	y in sqm mix plant of specifice, laid over	600.000 on pressure reface 600.000 300.000 900.000 producing ed grading er a and compaction		
	5.2.b Providing and app distributor at the racleaned with mech tack coat PWD TC SH TC Total 5.3.2.a Providing and layi an average output premixed with a bigreyiously prepare alignment and roll For Grading II - (1) BM & Description of the second s	and of 0.25 manical broading bituminous ed surface ed as per el 9 mm nor ads	coat with bit 5 - 0.30 kg per born. 500.000 250.000 nous macadanes per hour is binder (VG with paver ficlauses 501.6 minal size)	tumen emulser sqm on the 1.200 1.200 To m with 80-1 using crushed 30), transportinisher to the 5 and 501.7 to	otal Quantit Of TPH hot a daggregates red to the site required grap of achieve the	y in sqm mix plant of specifice, laid over	600.000 on pressure arface 600.000 300.000 900.000 producing ed grading er a and		

distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom. tack coat tack coat 1 250.000 1.200 300.00 Total 300.00 Total 300.00 5.6.1.a Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (NRMB) @ 5.2 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - I (19 mr nominal size) BM & BC roads BC 1 250.000 1.200 0.030 9.00 Total 9.00 Total 9.00 Total 9.00 Total 9.00 Total 9.00 Total Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications PCC Grade M20 CC PWD CC 1 5500.000 0.800 0.075 330.00 SH CC 1 5500.000 0.800 0.075 330.00 Total 660.00 Total 9.00 Total 9.00 Total 9.00 Fotal 9.00 Total 0.000 0.800 0.075 330.00 SH CC 1 5500.000 0.800 0.075 300.00 SH CC 1 5500.000 0.800 0.075 660.00 SH CC 1 5500.000 0.800 0.150 660.00 Total 1320.00	Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
Total		Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.									
Total 300.00 4.011 5.6.1.a Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder(NRMB) @ 5.2 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - 1 (19 mm nominal size) BM & amp; BC roads BC 1 250.000 1.200 0.030 9.00 Total 9.00 Total Quantity in cum 9.00 4.012 12.8.B.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications & It; br> PCC Grade M20& It; br> CC PWD CC 1 5500.000 0.800 0.075 330.00 SH CC 1 5500.000 0.800 0.075 330.00 Total 0.0075 330.00 Total 12.4 Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. CC PWD CC 1 5500.000 0.800 0.150 660.00 SH CC 1 5500.000 0.800 0.150 660.00		tack coat									
4.011 5.6.1.a Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (NRMB) @ 5.2 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - I (19 mr nominal size) BM & Description of the sequence of the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - I (19 mr nominal size) BC		tack coat	1	250.000	1.200			300.000			
4.011 5.6.1.a Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder(NRMB) @ 5.2 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - I (19 mr nominal size)		Total						300.000			
Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (NRMB) @ 5.2 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - I (19 mm nominal size) BM & C					To	tal Quantit	y in sqm	300.000			
an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (NRMB) @ 5.2 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - I (19 mm nominal size) BM & amp; BC roads BC	4.011	5.6.1.a									
BC		premixed with a bitransporting the hosensor control to the wheeled, vibratory MORTH specification nominal size)	tuminous of mix to vote require and tande tion claus	binder(NRM work site, lay d grade, leve em rollers to	MB) @ 5.2 p ing with a hy l, and alignm achieve the o	ercent of mix drostatic par nent, rolling desired comp	x and fille wer finishe with smoo paction as	er, er with oth per			
Total Total Quantity in cum 9.00		BM & amp; BC roa	ads	443	9 AJ.)						
Total Quantity in cum 9.00		BC	1	250.000	1.200	0.030		9.000			
4.012 12.8.B.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications PCC Grade M20 CC PWD CC		Total			- 16			9.000			
Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications PCC Grade M20 CC			N/		To	tal Quantit	y in cum	9.000			
Technical Specifications PCC Grade M20 CC	4.012	12.8.B.1		e-PLATFOR	M FOR THE M	ANAGEMENT					
PWD CC		Technical Specific	Cement Co ations &l	oncrete in Op t;br> PCC	en Foundation Grade M20	on complete 	as per Dra	awing and			
SH CC				1	1						
Total 660.00 4.013 12.4 Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. CC PWD CC 1 5500.000 0.800 0.150 660.00 SH CC 1 5500.000 0.800 0.150 660.00 Total 1320.00			1		0.800	0.075		330.000			
4.013 12.4 Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. CC PWD CC 1 5500.000 0.800 0.150 660.00 SH CC 1 5500.000 0.800 0.150 1320.00		SH CC	1	5500.000	0.800	0.075		330.000			
4.013 12.4 Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. CC PWD CC 1 5500.000 0.800 0.150 660.00 SH CC 1 5500.000 0.800 0.150 1320.00		Total									
Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. CC PWD CC 1 5500.000 0.800 0.150 660.00 SH CC 1 5500.000 0.800 0.150 1320.00 Total 1320.00					To	tal Quantit	y in cum	660.000			
40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. CC PWD CC	4.013	12.4									
PWD CC 1 5500.000 0.800 0.150 660.00 SH CC 1 5500.000 0.800 0.150 660.00 Total 1320.00		40 mm nominal size mechanically mixed, placed in foundation and compacted by									
SH CC 1 5500.000 0.800 0.150 660.00 Total 1320.00											
Total 1320.00		PWD CC	1	5500.000	0.800	0.150		660.000			
		SH CC	1	5500.000	0.800	0.150		660.000			
Total Quantity in cum 1320.00		I									
		Total						1320.000			
•	4.014	Total OD109487/2022-2	2023		To	tal Quantit	y in cum	1320.000			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Taking out existing CC interlocking paver blocks from footpath/ central ve including removal of rubbish etc., disposal of unserviceable material to the ground, for which payment shall be made separately and stacking of servic material within 50 metre lead as per direction of Engineer-in-Charge.							
	Interlock removal							
	SH interlock	1	1250.000	1.200			1500.000	
	Total						1500.000	
				T	otal Quantit	y in sqm	1500.000	
4.015	OD109488/2022-2	2023						
	Laying old cement concrete interlocking paver blocks of any design/ shape required line, level, curvature, colour and pattern over and including 50 mm compacted bed of coarse sand, filling the joints with fine sand etc. all compatted direction of Engineer-in-charge. (Old CC paver blocks shall be supplied department free of cost.)							
	Laying old interlocking tile							
	SH interlock	1	1250.000	1.200			1500.000	
	Total		(A)	KALM			1500.000	
				T	otal Quantit	y in sqm	1500.000	

e-PLATFORM FOR THE MANAGEMENT OF PUBLIC WORKS