ABSTRACT ESTIMATE

Jal Jeevan Mission (JJM)-WSS - to Santhanpara, Rajakumary (Part) and Senapathy (Part) Panchayaths in Idukki District-Package IIIA-Supplying and Laying Distribution and providing FHTC in Rajakumary GP-Pipeline Work

Sl No	Specification	Quantity	Rate	Amount
1	Supplying , Laying and commissi	oning of Distri	bution- Cost of mat	erials
1.001	100.98.119			
	Supply of DI K9 Pipe Conforming	to IS 8329/2000), 300mm Dia.	
	Net Total	1522.000metr e	@4520.65/metre	6880429.30
1.002	100.98.118			
	Supply of DI K9 Pipe Conforming	to IS 8329/2000), 250mm Dia.	
	Net Total	2557.000metr e	@3616.52/metre	9247441.64
1.003	100.98.117			
	Supply of DI K9 Pipe Conforming	to I <mark>S 832</mark> 9/2000), 200mm Dia.	
	Net Total	3343.000metr e	@2589.09/metre	8655327.87
1.004	100.98.116	BLIC WORKS		
	Supply of DI K9 Pipe Conforming	to IS 8329/2000), 150mm Dia.	
	Net Total	1496.000metr e	@1890.46/metre	2828128.16
1.005	100.98.134			
	Supply of HDPE Pipe PE 100 (IS 4	984/1995), 8kg	, 90mm Outer Dia.	
	Net Total	5466.000metr e	@212.57/metre	1161907.62
1.006	OD99555/2022-2023			
	90mm HDPE Specials (8kg) (3% C	ost of pipe)		
	Net Total	5466.000metr e	@6.37/metre	34818.42
1.007	100.98.154			
	Supply of HDPE Pipe PE 100 (IS 4	984/1995), 10k	g, 90mm Outer Dia.	
	Net Total	9057.000metr e	@264.59/metre	2396391.63
1.008	OD100162/2022-2023			
	Specials for 90 mm HDPE pipe(10)	kg) (3% Cost of	pipe)	
	Net Total	9057.000metr e	@7.95/metre	72003.15

Sl No	Specification	Quantity	Rate	Amount	
1.009	100.98.194				
	Supply of HDPE Pipe PE 100 (IS 4984/1995), 16kg, 90mm Outer Dia.				
	Net Total	27740.000met re	@376.08/metre	10432459.2 0	
1.010	OD100204/2022-2023				
	Specials for 90mm HDPE Pipe (16	kg) (3% Cost of	pipe)		
	Net Total	27740.000met re	@11.29/metre	313184.60	
1.011	100.98.135				
	Supply of HDPE Pipe PE 100 (IS 4	984/1995), 8kg,	110mm Outer Dia.		
	Net Total	622.000metre	@316.40/metre	196800.80	
1.012	OD99923/2022-2023				
	110 mm HDPE specials (8kg) (3%	(B+2)			
	6	622.000metre	@9.49/metre	5902.78	
1.013	100.98.155	1000014			
	Supply of HDPE Pipe PE 100 (IS 4				
1.01.4		898.000metre	@385.56/metre	346232.88	
1.014	OD100178/2022-2023				
	110mm HDPE specials (10kg) (3%	BLIC WORKS	@11.56/metre	10380.88	
1.015	100.98.195	898.000metre	@11.50/Illette	10380.88	
1.015	Supply of HDPE Pipe PE 100 (IS 4	984/1995) 16kg	x 110mm Outer Dia		
	Net Total	2201.000metr e	@557.74/metre	1227585.74	
1.016	OD100207/2022-2023				
	Specials for 110mm HDPE 16kg				
	Net Total	2201.000metr e	@16.73/metre	36822.73	
1.017	100.98.436				
	Supply of CI Air Valve, Conformin Size 80mm.	g to IS 14848 -	2000, Kinetic Air Va	alve Type DK,	
	Net Total	3.000no	@11748.57/no	35245.71	
1.018	100.98.444				
	Supply of CI Air Valve, Conformin Orifice Type S2, Size 50mm.	g to IS 14848 -	2000, Single Orifice	, Large	
	Net Total	1.000no	@6110.65/no	6110.65	
1.019	100.98.445				
	Supply of CI Air Valve, Conformin Size 40mm.	g to IS 14848 -	2000, Double Orific	e Type DS2,	

Sl No	Specification	Quantity	Rate	Amount
	Net Total	9.000no	@6950.42/no	62553.78
1.020	100.98.440			
	Supply of CI Air Valve, Conformin Orifice Type S1, Size 25mm.	g to IS 14848 -	2000, Single Orifice,	Small
	Net Total	58.000no	@5636.76/no	326932.08
1.021	100.98.475			
	Supply of CI Double Flanged Sluice Valve with Cap PN 1.0, Size 300m		ning to IS 14846 - 20	000, Sluice
	Net Total	1.000no	@40473.63/no	40473.63
1.022	100.98.474			
	Supply of CI Double Flanged Sluice Valve with Cap PN 1.0, Size 250m	e Valve Conforr n.	ning to IS 14846 - 20	000, Sluice
	Net Total	1.000no	@32125.93/no	32125.93
1.023	100.98.473			
	Supply of CI Double Flanged Sluice Valve with Cap PN 1.0, Size 200m		ning to IS 14846 - 20	000, Sluice
	Net Total	<u>1.000no</u>	@21987.20/no	21987.20
1.024	100.98.472		_	
	Supply of CI Double Flanged Sluice Valve with Cap PN 1.0, Size 150m	e Valve Conforr n.	ning to IS 14846 - 20	000, Sluice
	Net Total	1.000no	@12424.57/no	12424.57
1.025	100.98.469			
	Supply of CI Double Flanged Sluice Valve with Cap PN 1.0, Size 80mm		ning to IS 14846 - 20	000, Sluice
	Net Total	28.000no	@6136.20/no	171813.60
			Heading Total(Rs)	44555484.5 5
2	Supplying , Laying and commission	oning of Distril	oution- Working cha	arges
2.001	100.1.1			
	Excavating trenches of required wid sockets, and dressing of sides, ramn getting out the excavated soil, and the exceeding 20cm in depth, including watering, etc., and disposing of surp 50m, in all kinds of soil.	ning of bottoms hen returning th consolidating e	, depth up to 1.5m, in e soil as required, in ach deposited layer b	cluding layers not by ramming,
	Net Total	22696.515cu m	@579.88/cum	13161255.1 2
2.002	100.1.5			
	Excavating trenches of required wic sockets, and dressing of sides, ramn getting out the excavated soil, and t	ning of bottoms	, depth up to 1.5m, in	cluding

Sl No	Specification	Quantity	Rate	Amount	
	exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50 m, in Ordinary Rock.				
	Net Total	4814.703cum	@842.08/cum	4054365.10	
2.003	100.2.3				
	Excavating trenches of required wid sockets, and dressing of sides, ramm getting out the excavated soil, and t exceeding 20cm in depth, including watering, etc., and disposing of surr 50m, in Medium Rock Requiring B	ning of bottoms hen returning th consolidating e blus excavated s lasting.	, depth up to 1.5m, in the soil as required, in each deposited layer soil as directed, within	ncluding layers not by ramming, n a lead of	
		1604.901cum	@1043.15/cum	1674152.48	
2.004	100.1.13 Excavating trenches of required wid sockets, and dressing of sides, ramm getting out the excavated soil, and t exceeding 20cm in depth, including watering, etc., and disposing of surp 50m, in Hard Rock where Blasting	ning of bottoms hen returning th consolidating e blus excavated s	, depth up to 1.5m, in the soil as required, in each deposited layer	ncluding layers not by ramming,	
		1604.901cum	@1624.47/cum	2607113.53	
2.005	100.8.1				
	Fencing one side of trenches, 1.50m tape in vertical casuarina pole (girth				
	Net Total	50000.000met re	@28.84/metre	1442000.00	
2.006	100.59.1				
	Cutting the bituminous / concrete ro 200mm along the sides of proposed any damage to other utilities, includ and plant, cost of consumables and caution boards, traffic diversion, an complete, before carrying out the de mechanical means and carrying out	alignment of the ling the charges charges for light d as per the direct emolition of bitu	te pipe to be laid with for hire and conveya ting, watching, ribbo ection of departmenta uminous / concrete ro	hout causing ance of tools on fencing, al officers etc. bad by	
	Net Total	2400.000metr e	@31.77/metre	76248.00	
2.007	15.59				
	Dismantling of flexible pavement (disposal of dismantled material up t Engineer-in-charge.				
	Net Total	972.000cum	@394.70/cum	383648.40	
2.008	15.2.2				
	Demolishing cement concrete manu material within 50 metres lead as per concrete 1:4:8 leaner mix (includin	er direction of E	ngineer - in-Charge.	ng disposal of Nominal	

Sl No	Specification	Quantity	Rate	Amount	
	Net Total	405.000cum	@1318.13/cum	533842.65	
2.009	18.12.8				
	Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work80 mm dia nominal bore				
	Net Total	13467.000met re	@1064.49/metre	14335486.8 3	
2.010	100.10.1				
	Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi-automatic electrofusion machines, testing the pipeline thus fabricated to suit the hydraulic working pressure and after testing, aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and levelling the trenches including all labour charge, hire for appliances etc., complete but excluding cost of pipe and fittings: 90mm Nominal Outer Diameter pipes.				
	Net Total	39263.000met re	@97.37/metre	3823038.31	
2.011	100.10.2				
	Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi-automatic electrofusion machines, testing the pipeline thus fabricated to suit the hydraulic working pressure and after testing, aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and levelling the trenches including all labour charge, hire for appliances etc., complete but excluding cost of pipe and fittings: 110mm Nominal Outer Diameter Pipes.				
	Net Total	3721.000metr e	@132.06/metre	491395.26	
2.012	100.14.5				
	Conveying and laying S&S Ce conforming to IS: 8329 excluding c Iron Class K-9 Pipes.	entrifugally Cast of pipes and	t (Spun) / Ductile Iro l specials: 300mm di	on Pipes ameter Ductile	
	Net Total	1524.000metr e	@214.16/metre	326379.84	
2.013	18.70.5				
	Providing push - on-joints to Centri Pipes including testing of joints and pipe	fugally (Spun) (including the c	Cast Iron Pipes or Decost of rubber gasket:	uctile Iron 300 mm dia	
	Net Total	280.000joint	@430.66/joint	120584.80	
2.014	18.30.7				
	Providing flanged joints to double f testing of joints:300 mm diameter p		pipes and specials,	including	
	Net Total	4.000no	@603.77/no	2415.08	
2.015	OD113332/2022-2023				

Sl No	Specification	Quantity	Rate	Amount	
	Labour for cutting DI pipe with stee	el saw 300 mm c	liameter of DI Pipe		
	Net Total	40.000Each Cut	@1115.23/Each Cut	44609.20	
2.016	100.35.5				
	Testing 300mm DI/CI pipeline with potable water to the required test pressure. 300 mm dia Observed Data derived from item no.1023 of PHED DATA				
	Net Total	1524.000metr e	@57.78/metre	88056.72	
2.017	100.14.4	·			
	Conveying and laying S&S Centrifuto IS: 8329 excluding cost of pipes K-9 Pipes.	ugally Cast (Spu and specials: 25	n) / Ductile Iron Pip 0mm diameter Duct	bes conforming ile Iron Class	
	Net Total	2544.000metr e	@170.23/metre	433065.12	
2.018	18.70.4	1833		_	
	Providing push - on-joints to Centri Pipes including testing of joints and pipes				
	Net Total	465.000joint	@329.85/joint	153380.25	
2.019					
	Providing flanged joints to double f testing of joints:250 mm diameter p		pipes and specials,	including	
	Net Total	5.000no	@595.56/no	2977.80	
2.020	OD113323/2022-2023				
	Labour for cutting DI pipe with stee				
	Net Total	60.000Each Cut	@559.11/Each Cut	33546.60	
2.021	100.35.4				
	Testing 250mm DI/CI pipeline with potable water to the required test pressure . 250 mm dia Observed Data derived from item no.1022 of PHED DATA				
	Net Total	2544.000metr e	@53.00/metre	134832.00	
2.022	100.14.3				
	Conveying and laying S&S Centrifutor IS: 8329 excluding cost of pipes K-9 Pipes.				
	Net Total	3326.000metr e	@127.49/metre	424031.74	
2.023	18.70.3				
			Cast Iron Pipes or D		

	Specification	Quantity	Rate	Amount
	Pipes including testing of joints and pipes	l including the c	ost of rubber gasket	:200 mm dia
	Net Total	610.000joint	@270.11/joint	164767.10
2.024	18.30.5			
	Providing flanged joints to double f testing of joints:200 mm diameter p		pipes and specials,	including
	Net Total	6.000no	@436.82/no	2620.92
2.025	OD113324/2022-2023			
	Labour for cutting DI pipe with stee	el saw 200 mm c	liameter of DI Pipe	
	Net Total	60.000Each Cut	@449.61/Each Cut	26976.60
2.026	100.35.3			
	Testing 200mm DI/CI pipeline with 200 mm dia Observed Data derived from item n	 	1 1	ressure
	Net Total	3326.000metr e	@41.66/metre	138561.16
2.027	100.14.2			
	Conveying and laying S&S Centrifuto IS: 8329 excluding cost of pipes K-9 Pipes.	ugally Cast (Spu and specials: 15	n) / Ductile Iron Pip 0mm diameter Duct	pes conforming tile Iron Class
	Net Total	1489.000metr e	@91.51/metre	136258.39
2.028	18.70.2			
0	10.70.2			
	Providing push - on-joints to Centri Pipes including testing of joints and	fugally (Spun) (l including the c	Cast Iron Pipes or D ost of rubber gasket	uctile Iron :150 mm dia
	Providing push - on-joints to Centri	l including the c	Cast Iron Pipes or D ost of rubber gasket @184.10/joint	:150 mm dia
2.029	Providing push - on-joints to Centri Pipes including testing of joints and pipes	l including the c	ost of rubber gasket	:150 mm dia
2.029	Providing push - on-joints to Centri Pipes including testing of joints and pipes Net Total	l including the c 275.000joint langed C.I./ D.I	ost of rubber gasket @184.10/joint	:150 mm dia 50627.50
2.029	Providing push - on-joints to Centri Pipes including testing of joints and pipes Net Total 18.30.4 Providing flanged joints to double f	l including the c 275.000joint langed C.I./ D.I	ost of rubber gasket @184.10/joint	:150 mm dia 50627.50
2.029	Providing push - on-joints to Centri Pipes including testing of joints and pipes Net Total 18.30.4 Providing flanged joints to double f testing of joints:150 mm diameter p	l including the c 275.000joint langed C.I./ D.I ipe	ost of rubber gasket @184.10/joint pipes and specials,	:150 mm dia 50627.50 including
	Providing push - on-joints to Centri Pipes including testing of joints and pipes Net Total 18.30.4 Providing flanged joints to double f testing of joints:150 mm diameter p Net Total	l including the c 275.000joint langed C.I./ D.I ipe 3.000no	ost of rubber gasket @184.10/joint pipes and specials, @402.30/no	:150 mm dia 50627.50 including
	Providing push - on-joints to Centri Pipes including testing of joints and pipes Net Total 18.30.4 Providing flanged joints to double f testing of joints:150 mm diameter p Net Total OD113325/2022-2023	l including the c 275.000joint langed C.I./ D.I ipe 3.000no	ost of rubber gasket @184.10/joint pipes and specials, @402.30/no	:150 mm dia 50627.50 including
	Providing push - on-joints to Centri Pipes including testing of joints and pipes Net Total 18.30.4 Providing flanged joints to double f testing of joints:150 mm diameter p Net Total OD113325/2022-2023 Labour for cutting DI pipe with stee	l including the c 275.000joint langed C.I./ D.I ipe 3.000no el saw 150 mm c 15.000Each	ost of rubber gasket @184.10/joint pipes and specials, @402.30/no liameter of DI Pipe @337.10/Each	:150 mm dia 50627.50 including 1206.90
2.030	Providing push - on-joints to Centri Pipes including testing of joints and pipes Net Total 18.30.4 Providing flanged joints to double f testing of joints:150 mm diameter p Net Total OD113325/2022-2023 Labour for cutting DI pipe with stee Net Total 100.35.2 Testing 150mm DI/CI pipeline with 150 mm dia	l including the c 275.000joint langed C.I./ D.I ipe 3.000no el saw 150 mm c 15.000Each Cut	 ost of rubber gasket @184.10/joint pipes and specials, @402.30/no diameter of DI Pipe @337.10/Each Cut o the required test p 	:150 mm dia 50627.50 including 1206.90 5056.50
2.030	Providing push - on-joints to Centri Pipes including testing of joints and pipes Net Total 18.30.4 Providing flanged joints to double f testing of joints:150 mm diameter p Net Total OD113325/2022-2023 Labour for cutting DI pipe with stee Net Total 100.35.2 Testing 150mm DI/CI pipeline with	l including the c 275.000joint langed C.I./ D.I ipe 3.000no el saw 150 mm c 15.000Each Cut	 ost of rubber gasket @184.10/joint pipes and specials, @402.30/no diameter of DI Pipe @337.10/Each Cut o the required test p 	:150 mm dia 50627.50 including 1206.90 5056.50

Sl No	Specification	Quantity	Rate	Amount	
		e			
2.032	18.69.1				
	Providing and laying D.I Specials of Class K - 12 suitable for mechanical jointing per IS : 9523 :Upto 600 mm dia				
	Net Total	5.730quintal	@22071.58/quint al	126470.15	
2.033	18.68.1				
	Providing and laying D.I specials of IS : 9523 :Upt 600 mm dia	f class K - 12 su	itable for push - on j	ointing as per	
	Net Total	115.360quinta 1	@21003.05/quint al	2422911.85	
2.034	100.32.4				
	Conveying and fixing C. I. Double nuts, rubber insertions etc., complet if required, will be paid separately):	e, but excluding	g the cost of air valve		
	Net Total	3.000no	@229.21/no	687.63	
2.035	100.32.3				
	Conveying and fixing C. I. Double nuts, rubber insertions etc., complet if required, will be paid separately):	e, but excluding	g the cost of air valve	y with bolts, (tail pieces,	
	Net Total	1.000no	@229.21/no	229.21	
2.036	100.32.2				
	Conveying and fixing C. I. Single A nuts, rubber insertions etc., complet if required, will be paid separately):	te, but excluding	g the cost of air valve	with bolts, (tail pieces,	
	Net Total	9.000no	@184.44/no	1659.96	
2.037	100.32.1				
	Conveying and fixing C. I. Single A nuts, rubber insertions etc., complet if required, will be paid separately):	e, but excluding	g the cost of air valve		
	Net Total	58.000no	@146.63/no	8504.54	
2.038	100.31.1.7				
	Conveying and fixing C.I. sluice va insertions etc., complete, but exclud will be paid separately): 300mm dia	ling the cost of t			
	Net Total	1.000no	@2708.08/no	2708.08	
2.039	100.31.1.6				
	Conveying and fixing C.I. sluice va insertions etc., complete, but exclude	ling the cost of t			
	will be paid separately): 250mm dia	ameter, Class I.			

	Specification	Quantity	Rate	Amount		
2.040	100.31.1.5					
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubbe insertions etc., complete, but excluding the cost of the valve (tail pieces, if require will be paid separately): 200mm diameter, Class I.					
	Net Total	1.000no	@1625.85/no	1625.85		
2.041	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.					
	Net Total	1.000no	@1253.32/no	1253.32		
2.042	100.31.1.1					
	Conveying and fixing C.I. sluice va insertions etc., complete, but exclud will be paid separately): 80mm diar	ling the cost of t				
	Net Total	28.000no	@613.80/no	17186.40		
2.043	100.37.9.1	KOKD				
	In situ fabrication of M.S. pipes of size 300mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charge of painting the steel work with two or more coat deluxe multi surface paint to give even shade over an under-coat of primer etc., complete.					
	Net Total	20.000metre	@8154.17/metre	163083.40		
2.044	100.37.9.2Fabricating M.S. flanges of diameter 300mm using 12mm 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: For pipes fabricated with 8mm thick M.S. plates.					
	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates.	more coat delux imer etc., comp	lete: For pipes fabric	t to give an cated with		
	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total	more coat delux		t to give an		
2.045	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.9.3	more coat delux imer etc., comp 8.000no	lete: For pipes fâbric @3012.19/no	t to give an eated with 24097.52		
2.045	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total	more coat delux imer etc., comp 8.000no or making bends hire charges of	lete: For pipes fabric @3012.19/no and other specials b	t to give an cated with 24097.52 y gas cutting		
2.045	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.9.3 Cutting 300mm (I.D.) M.S. pipes for including cost of gas, all labour and	more coat delux imer etc., comp 8.000no or making bends hire charges of	lete: For pipes fabric @3012.19/no and other specials b	t to give an cated with 24097.52 y gas cutting		
2.045 2.046	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.9.3 Cutting 300mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla	more coat delux imer etc., comp 8.000no or making bends hire charges of tes.	lete: For pipes fabric @3012.19/no and other specials b tools etc., complete:	t to give an cated with 24097.52 y gas cutting For pipes		
	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.9.3 Cutting 300mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla Net Total	more coat delux imer etc., comp 8.000no or making bends hire charges of tes. 10.000no for making bend gas and welding	lete: For pipes fabric @3012.19/no and other specials b tools etc., complete: @326.40/no ls and other specials rods, all labour and	t to give an cated with 24097.52 by gas cutting For pipes 3264.00 by gas/electric hire charges		
	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.9.3 Cutting 300mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla Net Total 100.37.9.4 Welding 300mm (I.D.) M.S. pipes for welding machine including cost of g	more coat delux imer etc., comp 8.000no or making bends hire charges of tes. 10.000no for making bend gas and welding	lete: For pipes fabric @3012.19/no and other specials b tools etc., complete: @326.40/no ls and other specials rods, all labour and	t to give an cated with 24097.52 by gas cutting For pipes 3264.00 by gas/electric hire charges		
	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.9.3 Cutting 300mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla Net Total 100.37.9.4 Welding 300mm (I.D.) M.S. pipes for welding machine including cost of go of tools etc., complete: For pipes fa	more coat delux imer etc., comp 8.000no or making bends hire charges of tes. 10.000no for making bend gas and welding bricated with 8r	lete: For pipes fabric @3012.19/no and other specials b tools etc., complete: @326.40/no ls and other specials rods, all labour and nm thick M.S. plates	t to give an cated with 24097.52 y gas cutting For pipes 3264.00 by gas/electric hire charges		
2.046	painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.9.3 Cutting 300mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla Net Total 100.37.9.4 Welding 300mm (I.D.) M.S. pipes for welding machine including cost of go of tools etc., complete: For pipes fa Net Total	more coat delux imer etc., comp 8.000no or making bends hire charges of tes. 10.000no for making bend gas and welding bricated with 8r 10.000no	lete: For pipes fabric @3012.19/no and other specials b tools etc., complete: @326.40/no ls and other specials rods, all labour and nm thick M.S. plates @1233.75/no pipes during fabrica	t to give an cated with 24097.52 by gas cutting For pipes 3264.00 by gas/electric hire charges 12337.50 ttion work		

Sl No	Specification	Quantity	Rate	Amount
	Net Total	20.000no	@231.74/no	4634.80
2.048	100.37.8.1			
	In situ fabrication of M.S. pipes of s including cost and conveyance char of painting the steel work with two even shade over an under-coat of pr	ges of M.S. plat or more coat de	e, all fabrication cha luxe multi surface pa	rges, charges
	Net Total	25.000metre	@7163.12/metre	179078.00
2.049	100.37.8.2			
	Fabricating M.S. flanges of diamete cost and conveyance charges of M.S painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates.	S. plate, all fabri more coat delux	ication charges, char te multi surface paint	ges of t to give an
	Net Total	10.000no	@2555.47/no	25554.70
2.050	100.37.8.3	Ann.		
	Cutting 250mm (I.D.) M.S. pipes fo including cost of gas, all labour and fabricated with 8mm thick M.S. plan	hire charges of		
	Net Total	12.000no	@274.74/no	3296.88
2 051				
2.051	100.37.8.4		_	
2.051	100.37.8.4 Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fal	gas and welding	rods, all labour and	hire charges
2.051	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g	gas and welding	rods, all labour and	hire charges
2.051 2.052	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fal	gas and welding	rods, all labour and nm thick M.S. plates	hire charges
	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fal Net Total	gas and welding pricated with 8n 12.000no mm (I.D.) M.S.	rods, all labour and nm thick M.S. plates @1038.53/no pipes during fabrica	hire charges 12462.36 tion work
	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fal Net Total 100.37.8.5 Grinding cut and weld edges of 250 including all labour and hire charges	gas and welding pricated with 8n 12.000no mm (I.D.) M.S.	rods, all labour and nm thick M.S. plates @1038.53/no pipes during fabrica omplete: For pipes fa	hire charges
	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fal Net Total 100.37.8.5 Grinding cut and weld edges of 250 including all labour and hire charges 8mm thick M.S. plates.	gas and welding pricated with 8n 12.000no mm (I.D.) M.S. s of tools etc., c	rods, all labour and nm thick M.S. plates @1038.53/no pipes during fabrica omplete: For pipes fa	hire charges
2.052	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fat Net Total 100.37.8.5 Grinding cut and weld edges of 250 including all labour and hire charges 8mm thick M.S. plates. Net Total	as and welding bricated with 8n 12.000no mm (I.D.) M.S. s of tools etc., c 24.000no size 200mm (I.E ges of M.S. plat or more coat de	rods, all labour and <u>nm thick M.S. plates</u> @1038.53/no pipes during fabrica omplete: For pipes fa @195.07/no O.) using 8mm thick is the, all fabrication cha luxe multi surface pa	hire charges
2.052	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fal Net Total 100.37.8.5 Grinding cut and weld edges of 250 including all labour and hire charges 8mm thick M.S. plates. Net Total 100.37.7.1 In situ fabrication of M.S. pipes of s including cost and conveyance charged of painting the steel work with two	as and welding bricated with 8n 12.000no mm (I.D.) M.S. s of tools etc., c 24.000no size 200mm (I.E ges of M.S. plat or more coat de	rods, all labour and <u>nm thick M.S. plates</u> @1038.53/no pipes during fabrica omplete: For pipes fa @195.07/no O.) using 8mm thick is re, all fabrication cha luxe multi surface pa	hire charges
2.052	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fat Net Total 100.37.8.5 Grinding cut and weld edges of 250 including all labour and hire charges 8mm thick M.S. plates. Net Total 100.37.7.1 In situ fabrication of M.S. pipes of s including cost and conveyance charged of painting the steel work with two even shade over an under-coat of pr	as and welding pricated with 8n 12.000no mm (I.D.) M.S. s of tools etc., c 24.000no size 200mm (I.E ges of M.S. plat or more coat de imer etc., comp	rods, all labour and <u>nm thick M.S. plates</u> @1038.53/no pipes during fabrica omplete: For pipes fa @195.07/no D.) using 8mm thick 1 te, all fabrication cha luxe multi surface pa lete.	hire charges
2.052	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fal Net Total 100.37.8.5 Grinding cut and weld edges of 250 including all labour and hire charges 8mm thick M.S. plates. Net Total 100.37.7.1 In situ fabrication of M.S. pipes of s including cost and conveyance charged of painting the steel work with two even shade over an under-coat of pr Net Total	as and welding bricated with 8n 12.000no mm (I.D.) M.S. s of tools etc., c 24.000no size 200mm (I.E ges of M.S. plat or more coat de imer etc., comp 33.000metre r 200mm using S. plate, all fabri more coat delux	rods, all labour and <u>m thick M.S. plates</u> @1038.53/no pipes during fabrica omplete: For pipes fa @195.07/no D.) using 8mm thick 1 ice, all fabrication cha luxe multi surface pa lete. @6165.53/metre 12mm thick M.S. pl ication charges, charges ice multi surface paint	hire charges
2.052	Welding 250mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fal Net Total 100.37.8.5 Grinding cut and weld edges of 250 including all labour and hire charges 8mm thick M.S. plates. Net Total 100.37.7.1 In situ fabrication of M.S. pipes of s including cost and conveyance charg of painting the steel work with two even shade over an under-coat of pr Net Total 100.37.7.2 Fabricating M.S. flanges of diamete cost and conveyance charges of M.S painting the steel work with two or even shade over an under-coat of pr	as and welding bricated with 8n 12.000no mm (I.D.) M.S. s of tools etc., c 24.000no size 200mm (I.E ges of M.S. plat or more coat de imer etc., comp 33.000metre r 200mm using S. plate, all fabri more coat delux	rods, all labour and <u>m thick M.S. plates</u> @1038.53/no pipes during fabrica omplete: For pipes fa @195.07/no D.) using 8mm thick 1 ice, all fabrication cha luxe multi surface pa lete. @6165.53/metre 12mm thick M.S. pl ication charges, charges ice multi surface paint	hire charges

	Specification	Quantity	Rate	Amount	
	Cutting 200mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla	hire charges of			
	Net Total	16.000no	@223.11/no	3569.76	
2.056	100.37.7.4				
	Welding 200mm (I.D.) M.S. pipes f welding machine including cost of g of tools etc., complete: For pipes fa	gas and welding	rods, all labour and	hire charges	
	Net Total	16.000no	@843.32/no	13493.12	
2.057	100.37.7.5				
	Grinding cut and weld edges of 200 including all labour and hire charge 8mm thick M.S. plates.	mm (I.D.) M.S. s of tools etc., c	pipes during fabrica omplete: For pipes f	ation work abricated with	
	Net Total	32.000no	@158.40/no	5068.80	
2.058	100.37.6.1				
	In situ fabrication of M.S. pipes of size 150mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charge of painting the steel work with two or more coat deluxe multi surface paint to give a even shade over an under-coat of primer etc., complete.				
	Net Total	15.000metre	@5174.49/metre	77617.35	
2 050	100.37.6.2				
2.059	100.37.0.2 e-PLAT	FORM FOR THE	MANAGEMENT		
2.039	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates.	S. plate, all fabr more coat delux	ication charges, char te multi surface pain	ges of t to give an	
2.059	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr	S. plate, all fabr more coat delux	ication charges, char te multi surface pain	ges of t to give an	
2.059	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates.	S. plate, all fabr more coat delux imer etc., comp	ication charges, char a multi surface pain lete: For pipes fabric	ges of t to give an cated with	
	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total	S. plate, all fabr more coat delux imer etc., comp 6.000no or making bends hire charges of	ication charges, char a multi surface pain lete: For pipes fabric @1544.03/no and other specials b	ges of t to give an cated with 9264.18 by gas cutting	
	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.6.3 Cutting 150mm (I.D.) M.S. pipes for including cost of gas, all labour and	S. plate, all fabr more coat delux imer etc., comp 6.000no or making bends hire charges of	ication charges, char a multi surface pain lete: For pipes fabric @1544.03/no and other specials b	ges of t to give an cated with 9264.18 by gas cutting	
	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.6.3 Cutting 150mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla	S. plate, all fabr more coat delux imer etc., comp <u>6.000no</u> or making bends hire charges of tes.	ication charges, char a multi surface pain lete: For pipes fabric @1544.03/no and other specials b tools etc., complete:	ges of t to give an cated with 9264.18 by gas cutting : For pipes	
2.060	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.6.3 Cutting 150mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla Net Total	S. plate, all fabr more coat delux imer etc., comp 6.000no or making bends hire charges of tes. 8.000no for making bends	ication charges, char the multi surface pain lete: For pipes fabric @1544.03/no and other specials b tools etc., complete: @171.45/no Is and other specials prods, all labour and	ges of t to give an cated with 9264.18 by gas cutting For pipes 1371.60 by gas/electric hire charges	
2.060	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.6.3 Cutting 150mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla Net Total 100.37.6.4 Welding 150mm (I.D.) M.S. pipes for welding machine including cost of g	S. plate, all fabr more coat delux imer etc., comp 6.000no or making bends hire charges of tes. 8.000no for making bends	ication charges, char the multi surface pain lete: For pipes fabric @1544.03/no and other specials b tools etc., complete: @171.45/no Is and other specials prods, all labour and	ges of t to give an cated with 9264.18 by gas cutting For pipes 1371.60 by gas/electric hire charges	
2.060	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.6.3 Cutting 150mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla Net Total 100.37.6.4 Welding 150mm (I.D.) M.S. pipes for welding machine including cost of gas of tools etc., complete: For pipes fall	S. plate, all fabr more coat delux imer etc., comp 6.000no or making bends hire charges of tes. 8.000no for making benc gas and welding bricated with 8r	ication charges, char a multi surface pain lete: For pipes fabric @1544.03/no and other specials b tools etc., completes @171.45/no ls and other specials grods, all labour and nm thick M.S. plates	ges of t to give an cated with 9264.18 by gas cutting For pipes 1371.60 by gas/electric hire charges	
2.060	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of pr 8mm thick M.S. plates. Net Total 100.37.6.3 Cutting 150mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla Net Total 100.37.6.4 Welding 150mm (I.D.) M.S. pipes for welding machine including cost of g of tools etc., complete: For pipes fal Net Total	S. plate, all fabr more coat delux imer etc., comp 6.000no or making bends hire charges of tes. 8.000no for making bend gas and welding bricated with 8r 8.000no mm (I.D.) M.S.	ication charges, char a multi surface pain lete: For pipes fabric @1544.03/no and other specials b tools etc., complete: @171.45/no ls and other specials g rods, all labour and nm thick M.S. plates @648.09/no	ges of t to give an cated with 9264.18 by gas cutting For pipes 1371.60 by gas/electric hire charges 5. 5184.72	

Sl No	Specification	Quantity	Rate	Amount	
2.063	2.6.1				
	Earth work in excavation by mechanical means (Hydraulic excavator)/manual mean over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil				
	Net Total	96.000cum	@223.41/cum	21447.36	
2.064	4.1.3			_	
	Providing and laying in position cer cost of centering and shuttering - Al sand (zone-III) : 4 graded stone agg	l work up to pl	inth level:1:2:4 (cem		
	Net Total	60.160cum	@8340.91/cum	501789.15	
2.065	5.1.2				
	Providing and laying in position spe excluding the cost of centering, shu to plinth level:1:1:5:3 (1 cement 1.5 nominal size	ttering, finishin	g and reinforcement	- All work up	
	Net Total	53.751cum	@9483.13/cum	509727.72	
2.066	5.9.2	a fair and a second			
	Centering and shuttering including sthickness) including attached pilaste				
	Net Total	250.000sqm	@748.62/sqm	187155.00	
2.067	5.9.1 OF PUT	BLIC WORKS			
	Centering and shuttering including s for:Foundations, footings, bases of	strutting, etc. ar columns, etc for	nd removal of form r mass concrete		
	Net Total	344.700sqm	@350.00/sqm	120645.00	
2.068	5.22.6			_	
	Steel reinforcement for R.C.C work in position and binding all complete bars of grade Fe-500D or more	including strai	ghtening, cutting, be elThermo - Mechani	nding, placing cally Treated	
	Net Total	3240.000kilo gram	@102.61/kilogra m	332456.40	
2.069	16.83				
	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.				
	Net Total	900.000sqm	@115.55/sqm	103995.00	
2.070	16.84				
	Laying old cement concrete interloc required line, level, curvature, colou compacted bed of coarse sand, fillin the direction of Engineer-in-charge. department free of cost.)	r and pattern or g the joints wit	ver and including 50 h fine sand etc. all co	mm thick omplete as per	

Sl No	Specification	Quantity	Rate	Amount	
	Net Total	720.000sqm	@398.31/sqm	286783.20	
2.071	16.68				
	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with strong vibratory compaction, of approved size, design & amp; shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.				
	Net Total	180.000sqm	@1055.86/sqm	190054.80	
			Heading Total(Rs)	50539467.6 0	
3	Providing FHTCs				
3.001	100.60.13.4.2				
	AC / GI mains up to 125 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, GI / MS 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.				
	Net Total	224.000no	@7250.47/no	1624105.28	
3.002	100.60.13.6.2 Providing 20mm (3/4 inch) house connection with 15mm water meter from existing AC / GI mains up to 125 mm 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, GI / MS 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.				
	Net Total	336.000no	@8133.95/no	2733007.20	
3.003	100.60.13.1.2				
	Providing 15mm (1/2 inch) house co PVC / HDPE mains up to 110 mm c PE Pipe, PE80, PN16, Conforming	lia., up to a leng	gth of 5m using 20m	m(1/2 inch)	

Sl No	Specification	Quantity	Rate	Amount	
	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 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.				
	Net Total	782.000no	@7137.54/no	5581556.28	
3.004	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 to fested 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.				
	Net Total	1174.000no	@8021.00/no	9416654.00	
3.005	100.60.14.7.2				
	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 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.				
	Net Total	80.000no	@8624.50/no	689960.00	
3.006	100.60.14.9.2				
	Providing 20mm (3/4 inch) house c CI mains from 150mm to 200mm d PE Pipe, PE80, PN16, Conforming Compression / GM / Brass specials	ia., up to a lengt to IS 4984: 201	th of 5 m using 25mi 6 or later edition and	m (3/4 inch) I PP PN 16	

Sl No	Specification	Quantity	Rate	Amount	
	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 the 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.				
	Net Total	118.000no	@9507.98/no	1121941.64	
3.007	100.60.21.1.1 Providing 15mm (1/2 inch) GM Air Valve in the water meter assembly for 15mm water connection, using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers.				
	Net Total	1086.000no	@996.49/no	1082188.14	
3.008	100.60.21.2.1	1(3(3) B)			
	Providing 20mm (3/4 inch) GM Air Valve in the water meter assembly for 20mm water connection, using 25mm (3/4 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers.				
	Net Total	1628.000no	@1252.94/no	2039786.32	
3.009	100.60.23.3.1 Providing 15mm PVC Tap in the water meter assembly for 15mm (1/2 inch) water connection, using 20mm (1/2 inch) Indian Standard uPVC Class 6 pipes, uPVC specials and PP PN 16 Compression specials including cost of materials, consumables, hire charges for tools and labour charges etc. complete and as per the direction of departmental officers.				
	Net Total	1086.000no	@683.67/no	742465.62	
3.010	100.60.23.4.1Providing 15mm PVC Tap in the water meter assembly for 20mm (3/4 inch) water connection, using 25mm (3/4 inch) Indian Standard Class 6 uPVC pipes, uPVC specials and PP PN 16 Compression specials including cost of materials, consumables, hire charges for tools and labour charges etc. complete and as per the direction of departmental officers.Net Total1628.000no@785.68/no1279087.04				
3.011	100.60.15.1.1				
	Providing additional length of house Pipe, PE80, PN16, Conforming to I and testing the joints etc., by trench average cross section 0.3m x 0.75m lighting, watching, providing cautio materials, hire for tools, cost of con	S 4984: 2016 of ing and refilling for laying of co n boards, traffic	r later edition and PN g in all kinds of soil y onnection pipe and so c control etc., includi	V16 specials with trench of ervice pipe, ing cost of	

Sl No	Specification	Quantity	Rate	Amount
	excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per the directions of the department officers.			
	Net Total	26064.000met re	@179.74/metre	4684743.36
3.012	100.60.15.2.1			
	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 the directions of the department officers.			
	Net Total	78144.000met re	@195.27/metre	15259178.8 8
3.013	15.2.1	An .		
	Demolishing cement concrete manu material within 50 metres lead as per concrete 1:3:6 or richer mix (i/c equ	er direction of E	ingineer - in-Charge.	ng disposal of Nominal
	Net Total	112.500cum	@2134.74/cum	240158.25
3.014	100.59.1			
	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.			
	Net Total	6000.000metr e	@31.77/metre	190620.00
3.015	15.59			
	Dismantling of flexible pavement (disposal of dismantled material up t Engineer-in-charge.			
	Net Total	720.000cum	@394.70/cum	284184.00
			Heading Total(Rs)	46969636.0 1
4	Road restoration charges PWD/S	H/NH		
4.001	3.6			
	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m			
	Net Total	3920.000cum	@48.79/cum	191256.80

Sl No	Specification	Quantity	Rate	Amount	
4.002	4.2.A.1				
	Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method				
	Net Total	3248.000cum	@3283.03/cum	10663281.4 4	
4.003	4.12				
	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.				
	Net Total	288.000cum	@3375.91/cum	972262.08	
4.004	5.1.a	M			
	Providing and applying primer coat of granular Base including clearing 0.70 - 1.0 kg/sqm using mechanical	of road surface	mulsion (SS) on pre and spraying primer	pared surface at the rate of	
	Net Total	2900.000sqm	@73.49/sqm	213121.00	
4.005	5.2.b				
	Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Gran Surface cleaned with mechanical broom.				
	Net Total	2900.000sqm	@14.49/sqm	42021.00	
4.006	5.3.2.a				
	Providing and laying bituminous macadam 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 (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size)				
	Net Total	75.000cum	@8758.31/cum	656873.25	
4.007	5.2.a				
	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.				
	Net Total	1500.000sqm	@11.95/sqm	17925.00	
4.008	5.6.2.a				
	Providing and laying bituminous co an average output of 75 tonnes per grading, premixed with a bituminou transporting the hot mix to work sit sensor control to the required grade	hour using crusl 1s binder(NRM e, laying with a	hed aggregates of spe B) @ 5.4 percent of hydrostatic paver fir	ecified mix and filler, hisher with	

Sl No	Specification	Quantity	Rate	Amount
	wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size)			
	Net Total	45.000cum	@13387.00/cum	602415.00
4.009	5.7.1			
	Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.09 mm (Type-A) aggregates using viscosity grade bitumen (VG - 30) to the required line, grade, and level to serve as wearing course on a previously prepared base, including mixing in a suitable HMP of appropriate capacity not less than 75 tonnes/hour., laying and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to the required level and grade. Net Total 1400.000sqm @211.89/sqm 296646.00			
4.010	5.8.a			
	Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder (VG 30) laid on the prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. Grading I - 19 mm nominal chipping size			
	Net Total	1400.000sqm	@113.75/sqm	159250.00
4.011	12.4			
	Plain cement concrete 1:3:6 nomina 40 mm nominal size mechanically r vibration including curing for 14 da	nixed, placed in	foundation and com	one aggregate
	Net Total	100.000cum	@6718.30/cum	671830.00
4.012	12.8.B.1			
	Plain/Reinforced Cement Concrete Technical Specifications
< td=""><td></td><td></td><td>Drawing and</td></br><>			Drawing and
	Net Total	50.000cum	@8377.76/cum	418888.00
			Heading Total(Rs)	14905769.5 7
5	Road restoration charges LSGD			
5.001	3.5.3			
	Excavation in Soil using Hydraulic Excavation for roadwork bucket capacity including cutting ar slopes, in accordance with requirem transporting to the embankment loc as per Technical Specification Clau	c in soil with hy nd loading in tip nents of lines, gr ation with a lift	draulic excavator of ppers, trimming botto ades and cross-section	0.9 cum om and side ons, and
	Net Total	1245.000cum	@37.83/cum	47098.35
5.002	4.1.A.1			
	Granular Sub-base with Well Grade in Place Method Constru- graded material, spreading in unifor mixing by mix in place method with wheel roller to achieve the desired of	iction of granul m layers with n n rotavator at O	ar sub-base by provie notor grader on prepa MC, and compacting	ding well ared surface, with smooth

Sl No	Specification	Quantity	Rate	Amount	
	Clause 401. (i) For Grading I Material				
	Net Total	660.000cum	@3094.44/cum	2042330.40	
5.003	4.9				
	Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub- base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & amp; 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead				
	Net Total	360.000cum	@3459.12/cum	1245283.20	
5.004	5.1.1a				
	Prime Coat :- Low porosity <br& bitumen emulsion (SS-1) on prepar road surface and spraying primer at means as per Technical Specification</br& 	ed surface of gra the rate of 0.70	anular base including	g cleaning of	
	Net Total	3000.000sqm	@88.50/sqm	265500.00	
5.005	5.2.3a				
	Tack Coat Providing and using emulsion distributor at the rat granular surfaces treated with prime Technical Specification Clause 503 Net Total	e of 0.25 to 0.30 er & amp; cleane	0 kg per sqm on the j	prepared	
5.006	5.9.1.2a	5000.0003qm	e 10.11/5qm	10550.00	
2.000	20mm thick Open-Graded Premix O grade/modified bitumen) Binder - E rolling of open-graded premix carpo 5.6 mm aggregates either using pen line, grade and level to serve as wea including mixing in a suitable plant static roller capacity, finished to rec of either Type A or Type B or Type Case - I By Manual Mea	Bitumen S-65 & et of 20 mm thic etration grade b aring course on , laying and roll puired level and C as per Techn ms (It;br> Providing, ckness composed of itumen or emulsion a previously prepare ing with a three whe grades to be followe ical Specification Cl	laying and 13.2 mm to to required d base, el 80-100 kN ed by seal coat	
	Net Total	3000.000sqm	@206.69/sqm	620070.00	
5.007	5.12.A.3.2a				
	Seal Coat - Manual Means - Type C seal coat sealing the voids in a bitur and cross fall using Type A, Type E Clause 510 A. By Manu Bitumen (S-65)	ninous surface l 3 and Type C as	laid to the specified l per Technical Speci	evels, grade fication	
	Net Total	3000.000sqm	@87.63/sqm	262890.00	
5.008	11.4.3.1				
	Providing concrete for plain/reinfor drawings and technical specification			mplete as per	

Sl No	Specification	Quantity	Rate	Amount	
	1203 III. P.C.C. grade M 2	20 (i) Nominal	mix (1:2:4)		
	Net Total	225.000cum	@8633.95/cum	1942638.75	
			Heading Total(Rs)	6474140.70	
	Total Estimation PAC 163444				
Sl No	Description		Percentage/LS	Amount	
6	Lumsum Heading				
C 001	Water connection charges (KWA)				
6.001		null	null%	2428830.00	
		Tota	l Lumsum Amount	2428830.00	
7	Extra Charges				
	Provision for GST	8+2			
6.001	1.	163444498.43	18.00%	29420009.7 2	
			Grand Total	195293338. 15	
			Round off	6661.85	
		FORM FOR THE	Rounded Total(Rs)	195300000.0 0	
	Rupees Nineteen Crore Fifty Three	Lakh			