## **GENERAL ABSTRACT**

Jal Jeevan Mission (JJM)-JJM-WSS to Kudayathoor panchayath in Idukki District.-Providing Distribution System and Providing FHTC to various zones- package II-General Civil Work

Sl No	Head Description	Amount
1	Cost of materials	39514762.89
2	Working charge for Distribution System	54560213.63
3	Providing FHTC to various Zones	35639474.56
4	Application fee and connections	1688750.00
5	Road Restoration Charges	30429704.10
6	Road Restoration Charges	5712465.60
7	Road Restoration Charges to be remitted to other agencies	16092025.00
8	Renovation of Existing Sump at Koovappilly	186513.70
	Total Estimation PAC	183823909.4 8
C	Extra Charges	
C.001	Provision for GST	
	183823909.48 18.00%	33088303.71
	GPLATFORM FOR THE MANAGEMENT Grand Total	216912213.1 9
	Round off	87786.81
	Rounded Total(Rs)	217000000.0
	Rupees Twenty One Crore Seventy Lakh	

Approved By **Sudheer TS** (PEN:G45721), Chief Engineer

## **DETAILED ESTIMATE**

Jal Jeevan Mission (JJM)-JJM-WSS to Kudayathoor panchayath in Idukki District.-Providing Distribution System and Providing FHTC to various zones- package II-General Civil Work

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
1	Cost of materials						
1.001	100.98.115						
	Supply of DI K9 P	ipe Confo	orming to IS	8329/2000, 1	100mm Dia.		
	100 mm DI						
	Zone 3	1	20.000				20.000
	Zone 4	1	20.000				20.000
	Zone 5	1	4707.000				4707.000
	Zone 6	1	1696.000	W/\			1696.000
	Zone 7	1	33.000	57430			33.000
	For future maintenance	1	6476.000			0.0200 00	129.520
	Add for rounding	1		71[		5.4800 00	5.480
	Total		e-PLATFOR	M FOR THE M	ANAGEMENT		6611.000
			OF PUBLIC	Tota	al Quantity	in metre	6611.000
1.002	100.98.116						
	Supply of DI K9 P	ipe Confo	orming to IS	8329/2000, 1	150mm Dia.		
	Supply of DI k	(9 Pipe C	onforming to	IS 8329/200	00, 150mm Γ	Dia.	
	Zone 1	1	3192.000				3192.000
	Zone 2	1	517.000				517.000
	Zone 7	1	20.000				20.000
	For future mace	1	3729.000			0.0200	74.580
	Add for rounding	1				2.4200 00	2.420
	Total						3806.000
				Tota	al Quantity	in metre	3806.000
1.003	100.98.117						
	Supply of DI K9 P	ipe Confo	orming to IS	8329/2000, 2	200mm Dia.		
	Supply of DI K	•				ia	
	Zone 1	1	1191.000				1191.000
	For future mace,	1	1191.000			0.0200	23.820

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Add for rounding	1				0.6800	0.680
	Total						1215.500
				Tot	al Quantity	in metre	1215.500
1.004	100.98.138						
	Supply of HDPE I	Pipe PE 10	00 (IS 4984/1	1995), 8kg, 1	60mm Outer	Dia.	
	Supply of PE Pi	pe, PE100	), PN6, 160n	nm dia, conf	orming to IS	4984/199	5.
	Zone 7	1	203.000				203.000
	Add for rounding	1	1.000				1.000
	Total						204.000
				Tot	al Quantity	in metre	204.000
1.005	100.98.155						
	Supply of HDPE I	Pipe PE 10	00 (IS 4984/1	1995), 10kg,	110mm Out	er Dia.	
	Supply of PE P	ipe, PE10	0, PN10, 110	Omm dia, coi	nforming to 1	S 4984/19	95.
	Zone-2	1	1862.000	MALLER			1862.000
	Zone-7	1	1228.000	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM			1228.000
	Total						3090.000
				Tot	al Quantity	in metre	3090.000
1.006	100.98.195		e-PLATFOR	M FOR THE N	IANAGEMENT		
	Supply of HDPE F	Pipe PE 10	00 (IS 4984/1	1995), 16kg,	110mm Out	er Dia.	
	Supply of PE Pip	oe, PE100	, PN16, 110ı	nm dia, cont	forming to IS	4984/199	)5
	Zone 7	1	3793.000				3793.000
	Add for rounding	1				5.0000	5.000
	Total						3798.000
				Tot	al Quantity	in metre	3798.000
1.007	100.98.154						
	Supply of HDPE F	Pipe PE 10	00 (IS 4984/1	1995), 10kg,	90mm Outer	Dia.	
	Supply of PE Pi	pe, PE100	0, PN10, 90n	nm dia, conf	orming to IS	4984/199	5.
	Zone 1	1	2298.000				2298.000
	Zone 2	1	13000.00 0				13000.00 0
	Zone 3	1	500.000				500.000
	Zone 4	1	250.000				250.000
	Zone 6	1	861.000				861.000
	Zone 7	1	784.000				784.000
	Add for rounding	1				1.0000	1.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Total						17694.00 0		
				Tot	al Quantity	in metre	17694.00 0		
1.008	100.98.134								
	Supply of HDPE I	Pipe PE 10	00 (IS 4984/1	.995), 8kg, 9	0mm Outer	Dia.			
	Supply of PE Pi	pe, PE100	), PN6, 90mi	n dia, confo	rming to IS 4	984/1995			
	Zone 3	1	441.000				441.000		
	Zone 4	1	260.000				260.000		
	Add for rounding	1	1.000				1.000		
	Total						702.000		
	Total Quantity in metre								
1.009	100.98.194								
	Supply of HDPE F	Pipe PE 10	00 (IS 4984/1	995), 16kg,	90mm Outer	Dia.			
	Supply of PE Pi	pe, PE100	0, PN16, 90n	nm dia, conf	orming to IS	4984/199	5		
	Zone 1	1	14655.00 0				14655.00 0		
	Zone 4	1	250.000				250.000		
	Zone 5	1	1240.000				1240.000		
	Zone 6	1	768.000	WORKS	MUNICIPIETAL		768.000		
	Zone 7	1	13190.00 0				13190.00 0		
	Add for rounding	1	5.000				5.000		
	Total						30108.00 0		
				Tot	al Quantity	in metre	30108.00 0		
1.010	OD6667/2022-202	23							
	Supply of 100mm	GI (M) pi	ipes						
	100 mm GI Pipe								
	For culvert gap closing	1	110.000				110.000		
	Total						110.000		
				Tot	al Quantity	in metre	110.000		
1.011	OD41086/2022-20	)23							
	Supply of 150mm	GI (M) pi	ipes						
	Supply 150 mm G								
	Supply 150 mm GI pipe	1	60.000				60.000		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Total						60.000				
				Tot	al Quantity	in metre	60.000				
1.012	100.98.440										
	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm.										
	Supply of CI Air	Valve,25	mm Single	orifice							
	Air valve	55					55.000				
	Total						55.000				
				,	Total Quant	ity in no	55.000				
1.013	100.98.445										
	Supply of CI Air V Size 40mm.	/alve, Co	nforming to	IS 14848 - 20	000, Double	Orifice Ty	pe DS2,				
	Supply of CI Air	Valve, D	ouble Orific	e Size 40mm	1.						
	Air valve	15	-63				15.000				
	Total		1478	<b>9</b> 414			15.000				
			1000		Total Quant	ity in no	15.000				
1.014	100.98.457			<b>3-16</b>							
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 80mm.										
	Supply of CI Double Flanged Sluice Valve Sluice Valve with Cap PN 1.6, Size 80mm										
	80mm Sluice valve	48					48.000				
	Total						48.000				
				,	Total Quant	ity in no	48.000				
1.015	100.98.458										
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 100mm.										
	Supply of CI Do Valve with Cap Pl			alve Confort	ning to IS 14	1846 - 200	00, Sluice				
		15					15.000				
	Total						15.000				
				,	Total Quant	ity in no	15.000				
1.016	100.98.460										
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.										
	Supply of CI Do Valve with Cap Pl			Valve Confor	ming to IS 1	4846 - 20	00, Sluice				
	150mm sluice valve	5					5.000				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Total						5.000			
				,	Total Quant	ity in no	5.000			
1.017	100.98.461									
	Supply of CI Doub Valve with Cap Pl			ve Conformi	ng to IS 1484	46 - 2000	, Sluice			
	Supply of CI Dou Valve with Cap Pl			alve Conforn	ning to IS 14	846 - 200	0, Sluice			
	2									
	Total						2.000			
				,	Total Quant	ity in no	2.000			
2	Working charge for	or Distribu	ition System							
2.001	100.1.1									
	getting out the exc exceeding 20cm ir watering, etc., and	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not 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 50m, in all kinds of soil.								
	EW excavation	in all kir	nds of soil-70	)%						
	200 mm DI K9	1	1191.000	0.800	1.200	0.7000 00	800.352			
	150 mm DI K9	1	3729.000	0.700	1.150	0.7000 00	2101.292			
	100mm DI K9	1	6476.000	0.600	1.050	0.7000 00	2855.916			
	160 mm PE	1	203.000	0.700	1.150	0.7000 00	114.391			
	110 mm PE	1	3090+37 93	0.600	1.050	0.7000 00	3035.403			
	90 mm PE	1	701+176 93+3010 3	0.500	1.000	0.7000 00	16973.95 0			
	Total						25881.30 4			
				To	otal Quantity	y in cum	25881.30 4			
2.002	100.1.5									
	Excavating trenches sockets, and dressing etting out the exceeding 20cm in watering, etc., and m, in Ordinary Ro	ng of side avated so depth, in disposing	es, ramming oil, and then recluding cons	of bottoms, ceturning the solidating each	lepth up to 1. soil as required the deposited	5m, inclu ed, in lay layer by r	ding ers not amming,			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	EW excavation	in ordina	ry rock-20%						
	200 mm DI k9	1	1191.000	0.800	1.200	0.2000 00	228.672		
	150 mm DI k9	1	3729.000	0.700	1.150	0.2000 00	600.369		
	100mm DI K9	1	6476.000	0.600	1.050	$0.2000 \\ 00$	815.976		
	160 mm PE	1	203.000	0.700	1.150	$0.2000 \\ 00$	32.683		
	110 mm PE	1	3090+37 93	0.600	1.050	$0.2000 \\ 00$	867.258		
	90 mm PE	1	701+176 93+3010 3	0.500	1.000	0.2000	4849.700		
	Total						7394.658		
			-6	To	tal Quantity	y in cum	7394.658		
2.003	100.2.7		W. D.C	2614					
	getting out the exc exceeding 20cm ir watering, etc., and 50m, in Medium F	depth, in disposing cock wher	cluding conse g of surplus exe e Blasting is	<mark>olid</mark> ating eac xcavated soil	h deposited	layer by r	amming,		
	EW excavation in	n Medium	Rock-5%						
	200 mm DI k9	1	1191.000	0.800	1.200	0.0500 00	57.168		
	150 mm DI k9	1	3729.000	0.700	1.150	0.0500 00	150.092		
	100 mm DI k9	1	6476.000	0.600	1.050	0.0500 00	203.994		
	160 mm PE	1	203.000	0.700	1.150	0.0500 00	8.171		
	110 mm PE	1	3090+37 93	0.600	1.050	0.0500 00	216.815		
	90 mm PE	1	701+176 93+3010 3	0.500	1.000	0.0500 00	1212.425		
	Total						1848.665		
	Total Quantity in cum								
2.004	100.4.1								

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Excavating in hard rock for trenches by blasting for laying pipes and stacki materials for measurements and disposing unserviceable materials within the lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing by earth filled cement bags during blasting to avoid damages to nearby structure. Nos. of earth filled cement bags for 10m3 of blasting)										
	EW excavation in	hard rock	K-5%								
	200 mm DI K9	1	1191.000	0.800	1.200	0.0500 00	57.168				
	150 mm DI K9	1	3729.000	0.700	1.150	0.0500 00	150.092				
	100 mm DI K9	1	6476.000	0.600	1.050	0.0500 00	203.994				
	160 mm PE	1	203.000	0.700	1.150	$0.0500 \\ 00$	8.171				
	110 mm PE	1	3090+37 93	0.600	1.050	0.0500 00	216.815				
	90 mm PE	1	701+176 93+3010 3	0.500	1.000	0.0500 00	1212.425				
	Total						1848.665				
		100		To	tal Quantity	y in cum	1848.665				
2.005	50.2.25.1		e-DLATEOD	M COD THE M	ANIAGENEAIT	-					
	Filling with contra foundations etc. in layer by ramming site Engineer-in-cl	layers no and water	t exceeding 2	20 cm in dep	th, consolida	ting each	deposited				
	Filling with contra		9;s own earth	1							
		1	1831.000				1831.000				
	Total						1831.000				
				To	tal Quantity	y in cum	1831.000				
2.006	100.8.1					•					
	Fencing one side of in vertical casuaring						aution tape				
	Fencing one side	of trenche	es								
		1	20000.00				20000.00				
	Total						20000.00				
L	Total Quantity in metre										
				Tota	al Quantity	in metre	20000.00				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Cutting the bitumi 200mm along the any damage to oth and plant, cost of caution boards, tracomplete, before comechanical means	sides of preer utilities consumab ffic divers arrying or	roposed align s, including t les and charg sion, and as j ut the demoli	nment of the he charges for ges for lightinger the direct tion of bitun	pipe to be laid or hire and cong, watching tion of depart	id without onveyance , ribbon fe tmental of	t causing e of tools encing, ficers etc.				
	Cutting the bitum	inous/ co	ncrete roads								
	road crossing	56	5.000				280.000				
	road side	1	20000.00				20000.00				
	Total										
				Tot	al Quantity	in metre	20280.00 0				
2.008	15.59		d	W							
		Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilo metre, as per direction of									
	Dismantling of fle	exible pav	ement	3-16							
	road crossing	28	5.000	0.500	0.200		14.000				
	road side	1	20000.00	0.500	0.200		2000.000				
	Total						2014.000				
				Te	otal Quantit	y in cum	2014.000				
2.009	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, elect nines, test and after t lready ma and level mplete bu	ro-fusion weing the pipel esting, align de, testing the ling the trendit excluding of	lding using a ine thus fabraing the pipel ne line to suit ches includir	automatic or icated to suit ine, lowering able pressure ig all labour	semi-auto the hydra the pipe with pot charge, hi	matic sulic in position able water re for				
	Laying HDPE pi	oes-90 mr									
		1	701+176 93+3010 3				48497.00 0				
	Total		<u> </u>				48497.00 0				
	Total Quantity in metre										
2 010	100.10.2		<u> </u>	<u> </u>							

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Laying HDPE pipe and aligning the pi electrofusion mach working pressure a into the trenches a before back filling appliances etc., co Outer Diameter Pi	ipes, elect nines, test and after t lready ma and level mplete bu	ro-fusion we ing the pipel esting, alignide, 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 pot charge, hi	matic ulic in position able water re for		
	Laying HDPE pi	pes-110 n	nm						
		1	3090+37 93				6883.000		
	Total						6883.000		
				Tot	al Quantity	in metre	6883.000		
2.011	100.10.5								
	and aligning the pi electrofusion mack working pressure a into the trenches a before back filling appliances etc., co Outside Diameter	nines, test and after the lready mand level and level mplete but Pipes.	ing the pipel esting, alignide, testing the ling the trend at excluding of	ine thus fabri ing the pipeli he line to suit ches including cost of pipe a	icated to suit ine, lowering able pressure ig all labour and fittings: 1	the hydra the pipe is with pot charge, hi	ulic in position able water re for		
	Laying 11D1 E pi	1	203.000	WORKS	ANAGEMENT		203.000		
	Total	1	203.000				203.000		
	10441			Tot	al Ouantity	in metre	203.000		
2 012	Total Quantity in metre 203.000								
2.012	Providing and fixi refilling etc. Exter	nal work8	80 mm dia no	with G.I fitt minal bore	ings includir	ng trenchi	ng and		
	Providing and fix		• •						
		1	3270.000				3270.000		
	Total						3270.000		
				Tot	al Quantity	in metre	3270.000		
2.013	100.12.9								
	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc., but excluding cost of pipes and fittings for External work: 100mm diameter nominal bore.								
	Conveying and f	ixing GI	pipes			,			
		1	110.000				110.000		
	Total						110.000		
				Tot	al Quantity	in metre	110.000		
2.014	100.12.11								

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Conveying and fix refilling etc., but e diameter nominal	xcluding of								
	conveying and fix	ing GI pi	oes							
	150mm GI	1	60.000				60.000			
	Total						60.000			
				Tot	al Quantity	in metre	60.000			
2.015	100.14.1									
	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 100mm diameter Ductile Iron Class K-9 Pipes.									
	Conveying and la	ying S &	amp;S Centr	ifugally Cast	/Ductile Iron	pipes-10	0 mm			
		1	6476.000				6476.000			
	Total			la fi			6476.000			
			- E	Tot	al Quantity	in metre	6476.000			
2.016	100.14.2		(A1)	NATA!						
	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 150mm diameter Ductile Iron Class K-9 Pipes.									
	Conveying and	laying S &			st/Ductile Iro	n pipes-1	50 mm			
		1	3729.000	WORKS			3729.000			
	Total						3729.000			
				Tot	al Quantity	in metre	3729.000			
2.017	100.14.3	100.14.3								
	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Ductile Iron Class K-9 Pipes.									
							conforming			
		ing cost o	f pipes and s	pecials: 200i	mm diameter	Ductile I	conforming ron Class			
	K-9 Pipes.	ing cost o	f pipes and s	pecials: 200i	mm diameter	Ductile I	conforming ron Class			
	K-9 Pipes.	ing cost o	f pipes and s	pecials: 200i	mm diameter	Ductile I	conforming ron Class			
	K-9 Pipes.  Conveying and I	ing cost o	f pipes and s	pecials: 2001	mm diameter	Ductile I	conforming ron Class 00 mm 1191.000			
2.018	K-9 Pipes.  Conveying and I	ing cost o	f pipes and s	pecials: 2001	mm diameter	Ductile I	conforming ron Class 00 mm 1191.000 1191.000			
2.018	K-9 Pipes.  Conveying and 1  Total	aying S &	f pipes and s amp;S Central 1191.000	rifugally Cas  Tot	mm diameter t/Ductile Iron al Quantity	Ductile In pipes-20	conforming ron Class 00 mm 1191.000 1191.000			
2.018	K-9 Pipes. Conveying and I  Total  18.83.2	aying S &	f pipes and s  camp;S Centre  1191.000  with steel sa	rifugally Cas  Tot	mm diameter t/Ductile Iron al Quantity	Ductile In pipes-20	conforming ron Class 00 mm 1191.000 1191.000			
2.018	K-9 Pipes. Conveying and I  Total  18.83.2 Labour for cutting	aying S &	f pipes and s  camp;S Centre  1191.000  with steel sa	rifugally Cas  Tot	mm diameter t/Ductile Iron al Quantity	Ductile In pipes-20	conforming ron Class 00 mm 1191.000 1191.000			
2.018	K-9 Pipes. Conveying and I  Total  18.83.2 Labour for cutting	aying S &  1  C.I. pipe  C.I pipe-	f pipes and s  camp;S Centre  1191.000  with steel sa	rifugally Cas  Tot	mm diameter t/Ductile Iron al Quantity	Ductile In pipes-20	conforming ron Class 00 mm 1191.000 1191.000			
2.018	K-9 Pipes. Conveying and I  Total  18.83.2 Labour for cutting Labour for cutting	aying S &  1  C.I. pipe  C.I pipe-	f pipes and s  camp;S Centre  1191.000  with steel sa	rifugally Cas  Tot  w.100 mm d	mm diameter t/Ductile Iron al Quantity	Ductile In pipes-20 in metre	conforming ron Class 00 mm 1191.000 1191.000 90.000			
	K-9 Pipes. Conveying and I  Total  18.83.2 Labour for cutting Labour for cutting	aying S &  1  C.I. pipe  C.I pipe-	f pipes and s  camp;S Centre  1191.000  with steel sa	rifugally Cas  Tot  w.100 mm d	mm diameter t/Ductile Iron al Quantity	Ductile In pipes-20 in metre	90.000 90.000			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Labour for cutting	g C.I pipe	-150 mm				
		52					52.000
	Total						52.000
				Total Q	uantity in E	Cach Cut	52.000
2.020	18.83.5						
	Labour for cutting	C.I. pipe	with steel sa	w.200 mm d	iameter C.I.	pipe	
	Labour for cuttin	g C.I pipe	-200 mm				
		40					40.000
	Total						40.000
				Total Q	uantity in E	Cach Cut	40.000
2.021	18.67.1						
	Providing and layi per IS 13382:Upto	ng S & S 300 mm	C.I. Standar dia	d specials su	itable for me	echanical j	ointing as
	Providing and lay	ing S&an	np;S C.I				
	200 mm DI	4		K STALL		0.2700 00	1.080
	150 mm DI	7		<b>3</b> -10	E	0.2000	1.400
	100 mm DI	13	e-PLATFOR	M FOR THE M	ANAGEMENT	0.1300 00	1.690
	Total						4.170
				Total	Quantity in	n quintal	4.170
2.022	18.68.1						
	Providing and layi IS: 9523:Upt 600		ecials of clas	s K - 12 suita	able for push	- on joint	ing as per
	Providing and la	ying D.I					
	200mm 90deg bend	2				0.3200 00	0.640
	200mm 45deg.bend	4				0.2600 00	1.040
	200mm22.5 deg bend	22				0.2300 00	5.060
	200mm11.25 deg bend	35				0.2100 00	7.350
	150mm 90deg bend	2				0.2000	0.400
	150mm 45deg.bend	4				0.1600 00	0.640
	150mm 22.5 deg bend	26				0.1500 00	3.900

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	150mm 11.25 deg bend	42				0.1400 00	5.880
	100mm 90 deg bend	6				0.1100 00	0.660
	100mm 45 deg bend	6				0.1000 00	0.600
	100mm 22.5 deg bend	44				0.0900	3.960
	100mm 11.25 deg bend	68				0.0900 00	6.120
	100x100 tee	6				0.1900 00	1.140
	100x80tee	6				0.1800 00	1.080
	150x150tee	3		le/\		0.3200 00	0.960
	150x80tee	3	A			0.2800	0.840
	200x200tee	2	1000			0.4900 00	0.980
	200x80tee	2	-	Z IL	_=	0.4100 00	0.820
	100mm tail piece	24	e-PLATFOR OF PUBLIC	M FOR THE M WORKS	ANAGEMENT	0.1000 00	2.400
	150mm tail piece	12				0.1600 00	1.920
	200mm tail piece	8				0.2300	1.840
	Total						48.230
				Total	Quantity ir	n quintal	48.230
2.023	18.70.1						
	Providing push - o Pipes including tes pipes						
	Providing push	on-joints	S				
	100mm dia.pipe	1080					1080.000
	Total						1080.000
				To	tal Quantity	in joint	1080.000
2.024	18.70.2						
	Providing push - o Pipes including tes pipes						
	Providing push	- on-joints	s to Centrifu	gally			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	150mm dia. pipe	622					622.000
	Total						622.000
				To	tal Quantity	y in joint	622.000
2.025	18.70.3						
	Providing push - o Pipes including tes pipes						
	Providing push -	on-joints					
	200mm dia. pipe	200					200.000
	Total						200.000
				To	tal Quantity	y in joint	200.000
2.026	18.30.2						
	Providing flanged testing of joints:10			ed C.I./ D.I p	ipes and spec	cials, inclu	ıding
	Providing flanged	joints					
	100mm dia. pipe	24	1000				24.000
	Total						24.000
		100			Total Quant	ity in no	24.000
2.027	18.30.4		e-PLATFOR	M FOR THE M	LANAGEMENT		
	Providing flanged testing of joints:15	joints to d 50 mm dia	ouble flange meter pipe	ed C.I./ D.I p	ipes and spec	cials, inclu	ıding
	Providing flanged	joints to	double flang	ed C.I./ D.I	pipes		
	150mm dia.pipe	12					12.000
	Total						12.000
				,	Total Quant	ity in no	12.000
2.028	18.30.5						
	Providing flanged testing of joints:20			ed C.I./ D.I p	ipes and spec	cials, inclu	ıding
	Providing flanged	joints to	double flang	ed C.I./ D.I	pipes	Г	
	200 mm dia. pipe	8					8.000
	Total						8.000
				,	Total Quant	ity in no	8.000
2.029	100.32.1						
	Conveying and fix nuts, rubber inserti required, will be p	ions etc., c	complete, bu	t excluding t	he cost of air	valve (ta	
	Conveying and fix	xing C I S	ingle acting	Air Valve			
	Conveying and fix 25 mm air valve	xing C I S	ingle acting	Air Valve			55.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
					Total Quant	ity in no	55.000
2.030	100.32.2						
	Conveying and fix nuts, rubber insert required, will be p	ions etc., o	complete, bu	t excluding	the cost of air	valve (tai	
	Conveying and fix	xing C I S	ingle acting	Air Valve			
	40mm air valve	15					15.000
	Total						15.000
					<b>Total Quant</b>	ity in no	15.000
2.031	100.31.1.1						
	Conveying and fix insertions etc., cor will be paid separa  Conveying and fix	nplete, bu ately): 80n	t excluding t nm diameter	he cost of the Class I.			
	80 mm CI sluice valve	48	STATES VALVES				48.000
	Total		5.09/1/	SEC.			48.000
				3-16	Total Quant	ity in no	48.000
	100 01 1 0						
2.032	100.31.1.2						
2.032	Conveying and fix insertions etc., cor will be paid separa	nplete, bu ately): 100	t excluding t mm diamete	he cost of th			
2.032	Conveying and fix insertions etc., cor will be paid separa Conveying and fix	nplete, bu ately): 100	t excluding t mm diamete	he cost of th			
2.032	Conveying and fix insertions etc., cor will be paid separa	nplete, bu ately): 100	t excluding t mm diamete	he cost of th			15.000
2.032	Conveying and fix insertions etc., cor will be paid separa Conveying and fix 100 mm CI sluice	nplete, butely): 100 xing C.I. s	t excluding t mm diamete	he cost of th			15.000
2.032	Conveying and fix insertions etc., cor will be paid separa Conveying and fix 100 mm CI sluice valve	nplete, butely): 100 xing C.I. s	t excluding t mm diamete	he cost of th		pieces, if r	15.000 15.000
	Conveying and fix insertions etc., cor will be paid separa Conveying and fix 100 mm CI sluice valve	nplete, butely): 100 xing C.I. s	t excluding t mm diamete	he cost of th	e valve (tail p	pieces, if r	15.000 15.000
	Conveying and fix insertions etc., cor will be paid separa Conveying and fix 100 mm CI sluice valve  Total	ing C.I. sl	t excluding to mm diameter luice valves uice valves texcluding t	he cost of ther, Class I.  (with cap) by he cost of the	Total Quant	ity in no olts, nuts,	15.000 15.000 15.000 rubber
	Conveying and fix insertions etc., cor will be paid separa Conveying and fix 100 mm CI sluice valve  Total  100.31.1.4  Conveying and fix insertions etc., cor	ing C.I. slanglete, buttely): 100 xing C.I. slanglete, buttely): 150	t excluding to mm diameter luice valves uice valves to excluding to mm diameter to the mm diameter to excluding to the mm diameter to the text of the	he cost of ther, Class I.  (with cap) by he cost of the	Total Quant	ity in no olts, nuts,	15.000 15.000 15.000 rubber
	Conveying and fix insertions etc., corwill be paid separa Conveying and fix 100 mm CI sluice valve  Total  100.31.1.4  Conveying and fix insertions etc., corwill be paid separa	ing C.I. slanglete, buttely): 100 xing C.I. slanglete, buttely): 150	t excluding to mm diameter luice valves uice valves to excluding to mm diameter to the mm diameter to excluding to the mm diameter to the text of the	he cost of ther, Class I.  (with cap) by he cost of the	Total Quant	ity in no olts, nuts,	15.000 15.000 15.000 rubber
	Conveying and fix insertions etc., corwill be paid separa Conveying and fix 100 mm CI sluice valve  Total  100.31.1.4  Conveying and fix insertions etc., corwill be paid separa Conveying and fix 150mm CI sluice	ing C.I. slanglete, buttely): 100  sing C.I. slanglete, buttely): 150  sxing C.I. slanglete, buttely): 150  sxing C.I. s	t excluding to mm diameter luice valves uice valves to excluding to mm diameter to the mm diameter to excluding to the mm diameter to the text of the	he cost of ther, Class I.  (with cap) by he cost of the	Total Quant	ity in no olts, nuts,	15.000 15.000 15.000 rubber equired,
	Conveying and fix insertions etc., cor will be paid separa Conveying and fix 100 mm CI sluice valve  Total  100.31.1.4  Conveying and fix insertions etc., cor will be paid separa Conveying and fix 150mm CI sluice valve	ing C.I. slanglete, buttely): 100  sing C.I. slanglete, buttely): 150  sxing C.I. slanglete, buttely): 150  sxing C.I. s	t excluding to mm diameter luice valves uice valves to excluding to mm diameter to the mm diameter to excluding to the mm diameter to the text of the	he cost of ther, Class I.  (with cap) by he cost of the	Total Quant	ity in no olts, nuts, pieces, if r	15.000 15.000 15.000 rubber equired,
2.033	Conveying and fix insertions etc., cor will be paid separa Conveying and fix 100 mm CI sluice valve  Total  100.31.1.4  Conveying and fix insertions etc., cor will be paid separa Conveying and fix 150mm CI sluice valve	ing C.I. slanglete, buttely): 100  sing C.I. slanglete, buttely): 150  sxing C.I. slanglete, buttely): 150  sxing C.I. s	t excluding to mm diameter luice valves uice valves to excluding to mm diameter to the mm diameter to excluding to the mm diameter to the text of the	he cost of ther, Class I.  (with cap) by he cost of the	Total Quant  y providing be valve (tail p	ity in no olts, nuts, pieces, if r	15.000 15.000 15.000 rubber equired, 5.000
2.033	Conveying and fix insertions etc., corwill be paid separa Conveying and fix 100 mm CI sluice valve  Total  100.31.1.4  Conveying and fix insertions etc., corwill be paid separa Conveying and fix 150mm CI sluice valve  Total	ing C.I. slanglete, but tely): 100 xing C.I. slanglete, but tely): 150 xing C.I. slanglete, but tely):	t excluding to mm diameter luice valves to excluding to mm diameter luice valves to excluding to the texcluding to the t	(with cap) by he cost of the c	Total Quant  y providing be valve (tail p	ity in no olts, nuts, pieces, if r	15.000 15.000 15.000 rubber equired, 5.000 5.000 rubber

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	200mm CI sluice valve	2					2.000
	Total						2.000
				,	Total Quant	ity in no	2.000
2.035	OD41513/2022-20	)23					
	Supply and fixing 9739(1981)	of stainles	ss steel spring	g loaded pres	ssure relief v	alve as pe	er IS
	Pressure relief valv	ve				-	
		30					30.000
	Total						30.000
				,	Total Quant	ity in no	30.000
2.036	100.35.1						
	Testing 100mm Di 100 mm dia	I/CI pipeli	ne with potal	ble water to	the required	test pressi	ıre
	Testing 100mm I	OI/CI pipe	line	524.0			
	Testing 100mm DI/CI pipeline	1	6476.000				6476.000
	Total			-			6476.000
		M		Tot	al Quantity	in metre	6476.000
2.037	100.35.2		e-PLATFOR/ OF PUBLIC \	VI FOR THE M WORKS	IANAGEMENT		
	lm . 450 D	I/CI ninali	ne with notal	ble water to	the required	test pressu	ire.
	Testing 150mm Di 150 mm dia Observed Data der		•	8 of PHED	DATA	1	
		ived from	item no.101	8 of PHED	DATA		
	150 mm dia Observed Data der	ived from	item no.101	8 of PHED	DATA		
	150 mm dia Observed Data der Testing 150mm I Testing 150mm	ived from DI/CI pipe	item no.101	8 of PHED	DATA		3729.000
	150 mm dia Observed Data der Testing 150mm I Testing 150mm DI/CI pipeline	ived from DI/CI pipe	item no.101		DATA  al Quantity		3729.000
2.038	150 mm dia Observed Data der Testing 150mm I Testing 150mm DI/CI pipeline	ived from DI/CI pipe	item no.101				3729.000 <b>3729.000</b>
2.038	150 mm dia Observed Data der Testing 150mm I Testing 150mm DI/CI pipeline Total  100.35.3 Testing 200mm Di 200 mm dia	ived from DI/CI pipe 1	item no.101 line  3729.000  ne with pota	Tot	al Quantity	in metre	3729.000 3729.000 3729.000
2.038	150 mm dia Observed Data der Testing 150mm I Testing 150mm DI/CI pipeline Total  100.35.3 Testing 200mm Di 200 mm dia Observed Data der	ived from DI/CI pipe  1  I/CI pipeli	ne with potal	Tot	al Quantity	in metre	3729.000 3729.000 3729.000
2.038	150 mm dia Observed Data der Testing 150mm I Testing 150mm DI/CI pipeline Total  100.35.3 Testing 200mm Di 200 mm dia	ived from DI/CI pipe  1  I/CI pipeli	ne with potal	Tot	al Quantity	in metre	3729.000 3729.000 3729.000
2.038	150 mm dia Observed Data der Testing 150mm I Testing 150mm DI/CI pipeline Total  100.35.3 Testing 200mm Di 200 mm dia Observed Data der Testing 200mm I Testing 200mm	ived from DI/CI pipe  I/CI pipeli ived from DI/CI pipe	ne with potal item no.102	Tot	al Quantity	in metre	3729.000 3729.000 3729.000
2.038	150 mm dia Observed Data der Testing 150mm I Testing 150mm DI/CI pipeline Total  100.35.3 Testing 200mm Di 200 mm dia Observed Data der Testing 200mm I Testing 200mm DI/CI pipeline	ived from DI/CI pipe  I/CI pipeli ived from DI/CI pipe	ne with potal item no.102	Tot ble water to 0 of PHED	al Quantity	in metre	3729.000 3729.000 3729.000 are

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	In situ fabrication including cost and of painting the stee even shade over an	conveyar el work w	nce charges of the two or me	of M.S. plate, ore coat delu	, all fabrication xe multi surf	on charges	s, charges
	Fabricating M.S p	ipe of 100	mm Dia				
	MS pipe	1	150.000				150.000
	Total						150.000
				Tot	al Quantity	in metre	150.000
2.040	100.37.5.2						
	Fabricating M.S. f cost and conveyan the steel work with over an under-coarplates.  Fabricating MS f	ce charge two or n of prime	s of M.S. pla nore coat del	nte, all fabric uxe multi su	ation charges rface paint to	s, charges give an e	of painting ven shade
	MS flange	failges 6	-13				6.000
	Total	0	14-13	<b>P</b> ATA			6.000
	Total		3.0360	Charles Control	Total Quant	ity in no	6.000
2.041	100.37.5.3	_		<del>3-11</del>	Total Qualit	ity in no	0.000
	Cutting 100mm (I including cost of g fabricated with 8m	as, all lab	our and hire				
	cutting M.S pipe	1.5					15.000
	Cutting	15					15.000
	Total				T.4.104	•4	15.000
2.0.42	100.07.5.4				Total Quant	ity in no	15.000
2.042	Welding 100mm (welding machine itools etc., complet	ncluding	cost of gas a	nd welding r	ods, all labou	ır and hire	
	Welding						
	Welding	15					15.000
	Total						15.000
					Total Quant	ity in no	15.000
2.043	100.37.5.5 Grinding cut and vincluding all labou 8mm thick M.S. p.	ır and hire					
	Grinding						
	Grinding	15					15.000
	Total						15.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
				ı	Total Quant	ity in no	15.000
2.044	100.37.6.1					-	
	In situ fabrication including cost and of painting the stee even shade over ar	conveyar el work w	nce charges of the two or me	of M.S. plate, ore coat delu	, all fabrication xe multi surf	on charge	s, charges
	Fabricating M.S p	pe of 150	mm Dia			,	
	MS Fabrication	1	100.000				100.000
	Total						100.000
				Tot	al Quantity	in metre	100.000
2.045	100.37.6.2						
	Fabricating M.S. f cost and conveyanthe steel work with over an under-coatplates.	ce charge two or n of prime	s of M.S. pla nore coat del r etc., compl	te, all fabrica uxe multi su	ation charges rface paint to	s, charges give an e	of painting ven shade
	Fabricating M.S fl		mm dia				7.000
	MS flange	5					5.000
	Total			<b>T</b>	T. 4.104	•4	5.000
2.046	100.37.6.3		e-PLATFOR OF PUBLIC	M FOR THE N	Total Quant	ity in no	5.000
2.040	Cutting 150mm (I. including cost of g fabricated with 8m	as, all lab	pipes for ma	king bends a	nd other spec	cials by ganglete: For	as cutting r pipes
	Cutting MS pipe						
	Cutting	10					10.000
	Total						10.000
					Total Quant	ity in no	10.000
2.047	100.37.6.4						
	Welding 150mm (welding machine i tools etc., complete	ncluding	cost of gas a	nd welding r	ods, all labou	ır and hire	
	Welding MS pipe						
	Welding	10					10.000
	Total						10.000
				ı	Total Quant	ity in no	10.000
2.048	100.37.6.5						
	Grinding cut and vincluding all labou 8mm thick M.S. pl	r and hire					

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Grinding MS pipe						
	Grinding	10					10.000
	Total						10.000
				,	Total Quant	ity in no	10.000
2.049	100.37.7.1					·	
	In situ fabrication including cost and of painting the stee even shade over a	conveyar el work w	ice charges of the two or me	of M.S. plate, ore coat delu	all fabrication xe multi surf	on charges	s, charges
	Fabricating M.S p	ipe of 200	mm Dia				
	MS Fabrication	1	60.000				60.000
	Total						60.000
				Tot	al Quantity	in metre	60.000
2.050	100.37.7.2		A	W			
	cost and conveyan the steel work with over an under-coar plates.  Fabricating M.S F	two or met of prime	nore coat del r etc., compl	uxe multi sur	rface paint to	give an e	ven shade
		ranges of	200IIIII Dia	M FOR THE M	ANAGEMENT		2 000
	MS flange Total	3	OF PUBLIC	WORKS			3.000 <b>3.000</b>
	Total			,	Total Quant	ity in no	3.000
2.051	100.37.7.3				Total Qualit	ity iii iio	3.000
2.031	Cutting 200mm (Including cost of gabricated with 8m	as, all lab	our and hire				
	Cutting M.S pipe					<u> </u>	
	Cutting	8					8.000
	Total						8.000
				'	Total Quant	ity in no	8.000
2.052	100.37.7.4						
	Welding 200mm ( welding machine i tools etc., complet	ncluding of	cost of gas a	nd welding re	ods, all labou	ır and hire	
	Welding MS pipe						
	Welding	8					8.000
	Total						8.000
				,	Total Quant	ity in no	8.000
2.053	100.37.7.5						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Grinding cut and vincluding all labou 8mm thick M.S. p	ır and hire					
	Grinding MS pipe						
	Grinding	8	1				8.000
	Total						8.000
				,	Total Quant	ity in no	8.000
2.054	2.8.1						
	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 d	ains (not exc and ramming	eeding 1.5 m of bottoms,	in width or lift up to 1.5	10 sqm or m, includ	n plan), ing getting
	Earth work in exc	avation b	y mechanical	means			
	valve chamber of size 1*1*1.5 m	35	1.500	1.500	1.500		118.125
	Total		411DA	RADII			118.125
			733	To	otal Quantity	y in cum	118.125
2.055	4.1.3						
	Providing and layi of centering and sl (zone-III): 4 grade	nuttering -	All work up	to plinth lev	/el:1:2:4 (cen	de excludi nent : 2 co	ng the cost parse sand
	Providing and lay	ying in po	sition cemen	t concrete			
	valve chamber of size 1*1*1.5 m	35	1.500	1.500	0.100		7.875
	for anchor block	650	0.600	0.600	0.600		140.400
	For concreting road	1	2000.000	1.000	0.200		400.000
	Total		_				548.275
				To	otal Quantity	y in cum	548.275
2.056	5.1.2						
	Providing and layi excluding the cost to plinth level:1:1: nominal size	of centeri	ing, shutterin	g, finishing a	and reinforce	ment - Al	l work up
	Providing and lay	ing in po	sition specifi	ed grade of r	einforced ce	ment con	crete
	valve chamber base	35	1.300	1.300	0.150		8.873
	valve chamber - side wall	35	4*1.15	1.200	0.150		28.980
	valve chamber -						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total	·	·	•	•		49.683
				To	tal Quantity	y in cum	49.683
2.057	5.9.2						
	Centering and shut thickness) includir						
	Centering and shu	ttering in	cluding strutt	ing			
	valve chamber - side wall inside	35	4.000		1.200		168.000
	valve chamber - side wall out side	35	5.200		1.200		218.400
	cover slab	35	1.300	1.300			59.150
	cover slab- sides	35	5.200		0.200		36.400
	For anchor block	650	.6*4		0.600		936.000
	Total			in/\_			1417.950
				To	otal Quantity	y in sqm	1417.950
2.058	5.22.6		476				
	in position and bin bars of grade Fe-5 Steel reinforcem For valve chamber	00D or mo	ore		_⊏	1.0000	3250.000
	Total	1	1	1			3250.000
				Total Q	Quantity in k	ilogram	3250.000
3	Providing FHTC to	o various '	Zones				
	100.60.13.1.2						
	Providing 15mm (PVC / HDPE mair PE Pipe, PE80, PN Compression / GM way wheel valve, land connecting wirefilling in all kind average cross sectiwater meter, lightincluding cost of nincluding the cost	as up to 11 116, Confo 1 / Brass s bend, MT th the mai as of soil u on 0.3m x ng, watch naterials, 1	0 mm dia., uprming to IS pecials viz. bA, FTA, coup ns, testing the period to a depth a 0.75m for laing, providing for tools.	up to a length 4984: 2016 or orass ferrule, olers, PVC S e joints etc. of of 1.50m for aying connect g caution box, cost of cons	of 5m using or later edition brass hexagon ervice Saddle complete incomplete incomplete incomplete incomplete and ards, traffic osumables and	g 20mm (1) on and PP on and PP on and nipple e of suitabluding treacing and d service prontrol etce I labour che	1/2 inch ) PN 16 e, GM full ble size etc. nching and trench of pipe, fixing complete narges,

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing 15mm (1/2 inch) house connection	1260					1260.000
	Total						1260.000
					Total Quant	tity in no	1260.000
3.002	100.60.13.3.2						
	Providing 20mm (PVC / HDPE main PE Pipe, PE80, PN Compression / GM way wheel valve, I and connecting wirefilling in all kind average cross sectiwater meter, lightiincluding cost of nicharges, including mark resistant PP excluding charges the direction of the	ns up to 1. 116, Confidence of American MT the main of soil using, watch naterials, the cost of PE meters of the cutting of th	orming to IS pecials viz. A, FTA, cours, testing the to a depth to 0.75m for ling, providing the for tools of tested Clastr box of ming the concre	up to a length 4984: 2016 brass ferrule, plers, PVC S ne joints etc. of 1.50m for laying conne- ng caution bots, cost of con s B Multijet imum size 30 te / tarred / b	or later edition or later edition, brass hexago bervice Saddle complete incomplete incomplete and bards, traffic sumables and water meter and 200mm x 200mm x 200mm.	g 25mm ( on and PP onal nippl le of suital cluding tre racing and d service control etc d labour and weath mm x 150	3/4 inch ) PN 16 le, GM full ble size etc. enching and trench of pipe, fixing c. complete ler with ISI mm, but
	Providing 20mm ( PVC / HDPE	(3/4 inch)	house conne	ection with 1	5mm water r	neter fron	n existing
	Providing 20mm (3/4 inch) house connection	560	e-PLATFOR OF PUBLIC	M FOR THE M WORKS	ANAGEMENT		560.000
	Total						560.000
					Total Quant	tity in no	560.000
3.003	100.60.13.7.2						
	Providing 15mm (mains up to 125 m PE80, PN16, Conf / GM / Brass specivalve, bend, MTA etc. complete inclu1.50m for main lin laying connection providing caution for tools, cost of complete water met minimum size 300 concrete / tarred / lofficers	m dia., up forming to als viz. bu , FTA, co ding tren the tracing pipe and su boards, tra onsumable er with IS mm x 200 bituminou	o to a length o IS 4984: 20 cass ferrule, luplers etc. and ching and re and trench of service pipe, affic control es and labous I mark and volument	of 5 m using 016 or later educations hexago and connecting filling in all laterage cro- fixing water etc. completer charges, independent weather resistant, but exclu- and as per the	20mm (1/2 dition and PF nal nipple, Gg with the makinds of soil loss section 0.5 meter, lightine including called the cant PP / PE adding charges e direction of the called the	inch ) PE PPN 16 C M full water ains, testing up to a de 3m x 0.75 ing, watch cost of mater ost of test meter box is for cuttir of the depa	Pipe, ompression by wheel ing the joints pth of om for ing, terials, hire ed Class B of ing the rtmental
	Providing 15mm CI mains	(1/2 inch)	) house conn	ection with 1	15mm water	meter from	n existing
	Providing 15mm (1/2 inch) house connection	140					140.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						140.000
				ı	Total Quant	ity in no	140.000
3.004	100.60.13.9.2						
	Providing 20mm (mains up to 125 m PE80, PN16, Conf / GM / Brass specivalve, bend, MTA etc. complete inclu1.50m for main lin laying connection providing caution for tools, cost of complete water met minimum size 300 concrete / tarred / lofficers	m dia., up orming to als viz. bo , FTA, co ding tren e tracing pipe and s boards, tra onsumabler with IS mm x 200	to a length o IS 4984: 20 rass ferrule, b uplers etc. ar ching and re- and trench o service pipe, affic control es and labour of mark and v omm x 150m	of 5 m using of 6 or later educates hexago and connecting filling in all left average crofixing water etc. completer charges, indivented in the but exclusion, but exclusions and the control of the cont	25mm (3/4 dition and PF nal nipple, G g with the ma kinds of soil loss section 0. meter, lightie e including ce cluding the c tant 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 test meter box	Pipe, ompression by wheel ing the joints of for oing, terials, hire ed Class B of ing the
	Providing 20mm CI mains	(3/4 inch)	) house conn	ection with 1	5mm water	meter from	n existing
	Providing 20mm (3/4 inch) house connection	75		<b>3</b> 10			75.000
	Total		- PLATFOR				75.000
			OF PUBLIC	WORKS	Total Quant	ity in no	75.000
3.005	100.60.14.7.2						
	Providing 15mm (mains from 150mr Pipe, PE80, PN16, Compression / GN way wheel valve, I testing the joints et a depth of 1.50m 0.75m for laying cwatching, providing materials, hire for tested Class B Mulbox of minimum s the concrete / tarredepartmental offic	n to 200n Conform I / Brass s bend, MT tc. comple n for main connection g caution tools, cos ltijet wate ize 300m d / bitum	am dia., up to sing to IS 498 specials viz. I A, FTA, cou ete including a line tracing a pipe and sea boards, traff t of consuma or meter with m x 200mm	o a length of 84: 2016 or 1 brass ferrule, plers etc. and trenching ar and trench or vice pipe, fific control etables and labor ISI mark and x 150mm, but the state of the sta	5 m using 20 ater edition a brass hexag d connecting and refilling in of average croxing water mc. complete i our charges, d weather result excluding of	omm (1/2) and PP PN on all nipple with the real kinds oss section leter, light neluding sistant PP charges for the property of	inch ) PE 16 16, GM full mains, of soil up n 0.3m x ting, cost of the cost of / PE meter
	Providing 15mm ( CI mains	(1/2 inch)	house conne	ection with 1	5mm water r	neter from	n existing
	Providing 15mm (1/2 inch) house connection	150					150.000
	Total						150.000
					Total Quant	ity in no	150.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
3.006	100.60.14.9.2						
	Providing 20mm (mains from 150mm Pipe, PE80, PN16, Compression / GN way wheel valve, I testing the joints e to a depth of 1.50m 0.75m for laying c watching, providing materials, hire for tested Class B Mu box of minimum s the concrete / tarredepartmental offic	n to 200m, Conform, Conform, Frass sbend, MT tc. complem for main onnection tools, costilijet water ize 300m, ded / bitum	am dia., up to sing to IS 498 specials viz. I A, FTA, cou ete including a line tracing a pipe and sea boards, traff t of consuma or meter with m x 200mm	o a length of 84: 2016 or 1 brass ferrule, plers etc. and trenching arg and trench of truck pipe, fific control etables and labor ISI mark and x 150mm, but the state of the s	5 m using 25 ater edition a brass hexaged connecting and refilling in of average croxing water mac. complete is our charges, d weather result excluding of	omm (3/4) and PP PN on all nippl with the rall kinds oss section eter, light neluding of including sistant PP charges for	inch ) PE 116 le, GM full mains, of soil up n 0.3m x ting, cost of the cost of / PE meter
	Providing 20mm CI mains		house conne	ection with 1	5mm water n	neter fron	n existing
	Providing 20mm (3/4 inch) house connection	65					65.000
	Total						65.000
					<b>Total Quant</b>	ity in no	65.000
3.007	100.60.21.1.1			MESS THE	Total Quant	ity in no	65.000
3.007	100.60.21.1.1 Providing 15mm (water connection, 4984: 2016 or late materials, consumdirections of the december	using 20n r edition a ables, hire	nm ( 1/2 inchand PP PN 10 of for tools an	alve in the wan in PE Pipe, I	nter meter ass PE80, PN16, on specials in	sembly for Conforming cluding c	r 15mm ing to IS ost of
3.007	Providing 15mm (water connection, 4984: 2016 or late materials, consum	using 20nr edition a ables, hire epartment	nm (1/2 inchand PP PN 10 e for tools and officers.	llve in the wan in PE Pipe, If Compression delabour char	nter meter ass PE80, PN16, on specials in	sembly for Conforming cluding c	r 15mm ing to IS ost of
3.007	Providing 15mm (water connection, 4984: 2016 or late materials, consumdirections of the deliberation of the deliberation).	using 20nr edition a ables, hire epartment	nm (1/2 inchand PP PN 10 e for tools and officers.	llve in the wan in PE Pipe, If Compression delabour char	nter meter ass PE80, PN16, on specials in	sembly for Conforming cluding c	r 15mm ing to IS ost of as per the
3.007	Providing 15mm (water connection, 4984: 2016 or late materials, consumdirections of the deproviding 15mm (Providing 15mm (1/2 inch ) GM	using 20nr edition a ables, hire epartment 1/2 inch)	nm (1/2 inchand PP PN 10 e for tools and officers.	llve in the wan in PE Pipe, If Compression delabour char	nter meter ass PE80, PN16, on specials in	sembly for Conforming cluding c	r 15mm ing to IS ost of as per the
3.007	Providing 15mm (water connection, 4984: 2016 or late materials, consumdirections of the deproviding 15mm (Providing 15mm (1/2 inch ) GM Air Valve	using 20nr edition a ables, hire epartment 1/2 inch)	nm (1/2 inchand PP PN 10 e for tools and officers.	alve in the want in the Pipe, It is Compression of the Italian in the want in the Italian in the Want in the Want in the Want in the Want in the Italian in	nter meter ass PE80, PN16, on specials in	sembly for Conforming cluding caplete and	r 15mm ing to IS ost of as per the 1550.000
	Providing 15mm (water connection, 4984: 2016 or late materials, consumdirections of the deproviding 15mm (Providing 15mm (1/2 inch ) GM Air Valve	using 20nr edition a ables, hire epartment 1/2 inch)	nm (1/2 inchand PP PN 10 e for tools and officers.	alve in the want in the property in the want in the wa	nter meter ass PE80, PN16, on specials in rges etc. com	sembly for Conforming cluding caplete and	r 15mm ing to IS ost of as per the 1550.000
	Providing 15mm (water connection, 4984: 2016 or late materials, consumdirections of the deproviding 15mm (Providing 15mm (1/2 inch ) GM Air Valve	using 20n r edition a ables, hire epartment 1/2 inch )  1/2 inch )  1550  3/4 inch )  using 25n r edition a ables, hire	nm ( 1/2 inchand PP PN 10 e for tools and officers.  GM Air Valum ( 3/4 inchand PP PN 10 e for tools and e for	alve in the wan ) PE Pipe, In 6 Compression dispour characters. It is a live and the wan ) PE Pipe, In 6 Compression in the wan ) PE Pipe, In 6 Compression in the wan ) PE Pipe, In 6 Compression in the wan ) PE Pipe, In 6 Compression in the wan ) PE Pipe, In 6 Compression in the wan ) PE Pipe, In 6 Compression in the wan in the want in the wan in the wan in the want i	Total Quant  Tetal	sembly for Conforming cluding caplete and seembly for Conforming cluding c	r 15mm ing to IS ost of as per the 1550.000 1550.000 r 20mm ing to IS ost of
	Providing 15mm ( water connection, 4984: 2016 or late materials, consum- directions of the de Providing 15mm ( Providing 15mm ( 1/2 inch ) GM Air Valve  Total  Providing 20mm ( water connection, 4984: 2016 or late materials, consum- directions of the de	using 20n r edition a ables, hire epartment 1/2 inch )  1/2 inch )  3/4 inch )  using 25n r edition a ables, hire epartment	nm (1/2 inchand PP PN 10 e for tools and officers.  GM Air Valum (3/4 inchand PP PN 10 e for tools and officers.	alve in the wan ) PE Pipe, In 6 Compression dispour characters. It is a live and the wan ) PE Pipe, In 6 Compression dispour characters.	Total Quant  Tetal	sembly for Conforming cluding caplete and seembly for Conforming cluding c	r 15mm ing to IS ost of as per the 1550.000 1550.000 r 20mm ing to IS ost of
	Providing 15mm ( water connection, 4984: 2016 or late materials, consum- directions of the de Providing 15mm ( Providing 15mm ( 1/2 inch ) GM Air Valve  Total  100.60.21.2.1  Providing 20mm ( water connection, 4984: 2016 or late materials, consum-	using 20n r edition a ables, hire epartment 1/2 inch )  1/2 inch )  3/4 inch )  using 25n r edition a ables, hire epartment	nm (1/2 inchand PP PN 10 e for tools and officers.  GM Air Valum (3/4 inchand PP PN 10 e for tools and officers.	alve in the wan ) PE Pipe, In 6 Compression dispour characters. It is a live and the wan ) PE Pipe, In 6 Compression dispour characters.	Total Quant  Tetal	sembly for Conforming cluding caplete and seembly for Conforming cluding c	r 15mm ing to IS ost of as per the 1550.000 1550.000 r 20mm ing to IS ost of

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
				I	Total Quant	ity in no	700.000		
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.								
	Providing 15mm F	VC tap				Ī			
	Providing 15mm PVC tap	1550					1550.000		
	Total						1550.000		
				ı	Total Quant	ity in no	1550.000		
3.010	100.60.23.4.1								
	Providing 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.								
	Providing 15mm F	VC tap		<b>3-16</b>		[			
	Providing 15mm PVC tap	700		<b>V</b>			700.000		
	Total		OF PUBLIC	M FOR THE N WORKS	IANAGEMENT		700.000		
				ı	Total Quant	ity in no	700.000		
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 the directions of the department officers.								
	Providing addition	nal length	of house con	nnection pipe	e using 20 mi	n			
	Providing additional length of house connection pipe using 20 mm	1550	18.000				27900.00 0		
	Total						27900.00 0		
							27000 00		
				Tot	al Quantity	in metre	27900.00 0		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Providing addition PE80, PN16, Conf testing the joints e average cross sect lighting, watching materials, hire for excluding the cost directions of the de	forming to tc., by tren ion 0.3m of providing tools, cost of cutting	o IS 4984: 20 nching and read 0.75m for lag caution boot t of consumates of concrete	16 or later edefilling in all aying of contacts, traffic cubles and laborates.	dition and PN kinds of soil nection pipe control etc., in our charges e	N 16 specil with trenand servion and servion cluding of the complete.	als and ach of ce pipe, cost of ete, but			
	Providing addition	nal length	of house cor	nnection pipe	using 25 mi	m				
	Providing additional length of house connection pipe using 25 mm	700	40.000				28000.00			
	Total									
	Total Quantity in metre						28000.00			
			L L 1354	100 59 1						
3.013	100.59.1  Cutting the bitumi 200mm along the any damage to oth	sides of preer utilities	roposed align s, including t	nm <mark>ent</mark> of the he charges fo	pipe to be lai or hire and co	id without onveyance	t causing e of tools			
3.013	Cutting the bitumi 200mm along the	sides of proper utilities consumab offic diverserving or	roposed align s, including the les and charg sion, and as p at the demoli	nment of the he charges for lightinger the direct tion of bitum	pipe to be laid or hire and cong, watching, ion of depart	id without onveyance , ribbon fe tmental of	t causing to of tools encing, ficers etc.			
3.013	Cutting the bitumi 200mm along the any damage to oth and plant, cost of caution boards, tracomplete, before complete.	sides of proper utilities consumabuffic diverse carrying or and carry	roposed align s, including the les and charge sion, and as p at the demoli- ring out the e	nment of the he charges for lightinger the direction of bitum excavation.	pipe to be laid or hire and cong, watching, ion of depart hinous / conc	id without onveyance , ribbon fe tmental of	t causing to of tools encing, ficers etc.			
3.013	Cutting the bitumi 200mm along the any damage to oth and plant, cost of caution boards, tra complete, before comechanical means	sides of proper utilities consumabuffic diverse carrying or and carry	roposed align s, including the les and charge sion, and as p at the demoli- ring out the e	nment of the he charges for lightinger the direction of bitum excavation.	pipe to be laid or hire and cong, watching, ion of depart hinous / conc	id without onveyance , ribbon fe tmental of	t causing e of tools encing, ficers etc. by			
3.013	Cutting the bitumi 200mm along the any damage to oth and plant, cost of caution boards, tracomplete, before comechanical means  Cutting the bitum	sides of prier utilities consumabuffic diversarrying or and carry	roposed align s, including the les and charge sion, and as p ut the demoli- ring out the e oncrete roads	nment of the he charges for lightinger the direction of bitum excavation.	pipe to be laid or hire and cong, watching, ion of depart hinous / conc	id without onveyance , ribbon fe tmental of	t causing to of tools encing, ficers etc. by			
3.013	Cutting the bitumi 200mm along the any damage to oth and plant, cost of caution boards, tracomplete, before complete, before complete and cutting the biture.	sides of preer utilities consumab affic diverse carrying or and carry minous / c	roposed align s, including the sand chargesion, and as put the demoliting out the econcrete roads	nment of the he charges for lightinger the direction of bitum excavation.	pipe to be laid or hire and cong, watching, ion of depart hinous / conc	id without onveyance , ribbon fe tmental of	t causing to of tools encing, ficers etc. by			
3.013	Cutting the bitumi 200mm along the any damage to oth and plant, cost of c caution boards, tra complete, before c mechanical means Cutting the bitur Crossing road edge	sides of preer utilities consumab affic diverse carrying or and carry minous / c	roposed align s, including the sand chargesion, and as put the demoliting out the econcrete roads	nment of the he charges for lightinger the direct ition of bitum excavation.	pipe to be laid or hire and cong, watching, ion of depart hinous / conc	id without onveyance , ribbon fe tmental of crete road	t causing of tools encing, ficers etc. by  640.000 1200.000			
3.013	Cutting the bitumi 200mm along the any damage to oth and plant, cost of c caution boards, tra complete, before c mechanical means Cutting the bitur Crossing road edge Total	sides of preer utilities consumab affic diverse carrying or and carry minous / c	roposed align s, including the sand chargesion, and as put the demoliting out the econcrete roads	nment of the he charges for lightinger the direct ition of bitum excavation.	pipe to be lai or hire and cong, watching, ion of depart ninous / conc	id without onveyance , ribbon fe tmental of crete road	t causing of tools encing, ficers etc. by  640.000 1200.000			
	Cutting the bitumi 200mm along the any damage to oth and plant, cost of c caution boards, tra complete, before c mechanical means Cutting the bitur Crossing road edge Total	sides of preer utilities consumable fire diverse carrying or and carry minous / c 160 120 exible paventled mate	roposed align s, including the sand charges and as put the demoliting out the element (bitument	nment of the he charges for lightinger the direct tion of bitum excavation.  s with cutting  Tota	pipe to be lain or hire and cong, watching, ion of depart hinous / concern machine	id without onveyance, ribbon fet mental of the rete road in metre anical me	640.000 1840.000 ans and			
	Cutting the bitumi 200mm along the any damage to oth and plant, cost of c caution boards, tra complete, before c mechanical means Cutting the bitur Crossing road edge Total  15.59 Dismantling of fle disposal of disman	sides of preder utilities consumable fire diverse carrying or and carry minous / c 160 120 exible paventled mate e.	roposed align s, including the and chargesion, and as put the demoliting out the econcrete roads 4.000 10.000  ement ( bitun rial up to a lease and chargesion, and as put the econcrete roads)	ment of the he charges for lightinger the direct ition of bitum excavation.  s with cutting  Tota  ninous course and of 1 kilo	pipe to be lain or hire and cong, watching, watching, ion of departations / concording machine  al Quantity  es ) by mechine	id without onveyance, ribbon feather road in metre anical metre road in metre	640.000 1200.000 1840.000 ans and			
	Cutting the bitumi 200mm along the any damage to oth and plant, cost of caution boards, tracomplete, before comechanical means  Cutting the bitume Crossing  road edge  Total  15.59  Dismantling of fle disposal of disman Engineer-in-charge	sides of preder utilities consumable fire diverse carrying or and carry minous / c 160 120 exible paventled mate e.	roposed align s, including the and chargesion, and as put the demoliting out the econcrete roads 4.000 10.000  ement ( bitun rial up to a lease and chargesion, and as put the econcrete roads)	ment of the he charges for lightinger the direct ition of bitum excavation.  s with cutting  Tota  ninous course and of 1 kilo	pipe to be lain or hire and cong, watching, watching, ion of departations / concording machine  al Quantity  es ) by mechine	id without onveyance, ribbon featmental of the rete road in metre anical metre direction echanical	640.000 1200.000 1840.000 ans and of			
	Cutting the bitumi 200mm along the any damage to oth and plant, cost of o caution boards, tra complete, before o mechanical means  Cutting the bitum  Crossing  road edge  Total  15.59  Dismantling of fle disposal of disman Engineer-in-charg  Dismantling of	sides of prer utilities consumable affic divers carrying or and carry minous / c 160 120 exible paventled mate e.	roposed alignation in cluding the sand charges in and as put the demolising out the element oncrete roads 4.000 10.000 ement (bitum rial up to a lemayement (bitum rayement (b	ment of the he charges for lightinger the direct tion of bitum excavation.  s with cutting   Tota  ninous course ead of 1 kilo  tuminous co  0.300	pipe to be laid or hire and cong, watching ion of departation of departations / concerning machine  al Quantity  es ) by mechine metre, as performers ) by mechine	id without onveyance, ribbon fermental of the read in metre anical metre direction echanical	640.000 1200.000 1840.000 ans and			
	Cutting the bitumi 200mm along the any damage to oth and plant, cost of c caution boards, tra complete, before c mechanical means  Cutting the bitur  Crossing road edge  Total  15.59  Dismantling of fle disposal of dismar Engineer-in-charg  Dismantling of road crossing	sides of preer utilities consumable fire diverse carrying or and carry minous / c 160 120 xible paventled mate e. flexible p	roposed aligns, including the and charges ion, and as put the demolising out the econcrete roads 4.000 10.000 ement ( bitum rial up to a leavement ( bitum 4.000 4.000 exercises a leavement ( bitum 4.000 exercis	ment of the he charges for lightinger the direct tion of bitum excavation.  s with cutting   Total  ninous course ead of 1 kilo  tuminous co  0.300	pipe to be lain or hire and cong, watching, ion of departation of departations / concern machine  al Quantity  es ) by mechine  urses ) by mechine  0.200	id without onveyance, ribbon fermental of the read in metre anical metre direction echanical	640.000 1200.000 1840.000 ans and of means			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	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								
	Replacing the cho (1/2 inch) water m		maged 15mr	m (1/2 inch)	house connec	ction with	15mm		
	Replacing the chocked / damaged 15mm (1/2 inch) house connection	450	2	W.			450.000		
	Total			9 <i>A</i> {1}			450.000		
	100.60.8.2		sedli.	Street .	Total Quant	ity in no	450.000		
	Replacing the chocked / damaged 20mm (3/4 inch) house connection with 20mm (3/4 inch) water meter from existing mains, up to a length of 5m using 25mm 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 & amp; 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 20mm (3/4 inch) house connection								
	Replacing the choo	cked / dan	naged 20mm	(3/4 inch) h	ouse connect	ion			
	Replacing the chocked / damaged 20mm (3/4 inch) house connection	cked / dan	naged 20mm	(3/4 inch) h	ouse connect	ion	ent		
	Replacing the chocked / damaged 20mm (3/4 inch) house		naged 20mm	(3/4 inch) h	ouse connect	ion	313.000 313.000		
	Replacing the chocked / damaged 20mm (3/4 inch) house connection		naged 20mm		ouse connect  Fotal Quant				
3.017	Replacing the chocked / damaged 20mm (3/4 inch) house connection	313  ng in posinuttering -	tion cement	concrete of so	Fotal Quant	<b>ity in no</b> le excludi	313.000 313.000 313.000		
3.017	Replacing the chocked / damaged 20mm (3/4 inch) house connection  Total  4.1.3  Providing and layi of centering and sl	ng in posinuttering -ed stone a	tion cement	concrete of so	Fotal Quant	<b>ity in no</b> le excludi	313.000 313.000 313.000		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	for road concrete	80	4.000	0.300	0.150		14.400	
	Total						68.400	
				To	tal Quantity	y in cum	68.400	
4	Application fee an	d connect	ions					
4.001	OD7064/2022-202	23						
	Charges for applic having l				ing fee etc fo	or connect	ions	
	Charges for applic	ation fee l	length below	30m.				
	length below 30m.	1550					1550.000	
	Total						1550.000	
	Total Quantity in no						1550.000	
4.002	OD7065/2022-202	23						
	Charges for application fee, connection fee, meter testing fee etc for connections having length above 30 m 							
	Charges for application fee length above 30m.							
	length above 30m.	700		3-10			700.000	
	Total						700.000	
			e-PLATFOR! OF PUBLIC \	M FOR THE M WORKS	Total Quant	ity in no	700.000	
4.003	OD42319/2022-20	)23						
	Geo Tagging to th	e new Ser	vice connecti	ons				
	Geo tagging to the	new serv	ice connection	ns				
	Geo tagging to the new service connections	2250					2250.000	
	Total						2250.000	
				7	Total Quant	ity in no	2250.000	
5	Road Restoration	Charges						
5.001	3.6							
	Excavation for roa including cutting a accordance with rethe embankment le	and loadin equiremen	g in tippers, t ts of lines, gr	rimming bot ades and cro	tom and side	e slopes, ii	n	
	EW for road work							
	Tar surface	1	14000.00	1.100	0.400		6160.000	
	Total						6160.000	
	Total			То	tal Quantity	y in cum	6160.000 6160.000	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Construction of gr layers with a moto rotavator at OMC, density, complete Mix in Place Meth	or grader of and comp as per cla	on a prepared pacting with	surface, mix a vibratory re	ing by mix in the color of the	n-place me	ethod with sired	
	Granular sub base							
	Tar surface	1	14000.00	1.000	0.200		2800.000	
	Total						2800.000	
				To	tal Quantit	y in cum	2800.000	
5.003	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.  WMM							
	Tar surface	1	14000.00 0	1.000	0.200		2800.000	
	Total Total Quantity in cum							
5.004	5.1.a		e-PLATFOR OF PUBLIC	M FOR THE M WORKS	ANAGEMENT			
	Providing and app of granular Base in 0.70 - 1.0 kg/sqm Priming coat	ncluding o	clearing of ro	ad surface ar				
	Tar surface	1	14000.00	1.100			15400.00	
	Total		'	'			15400.00 0	
				To	otal Quantit	y in sqm	15400.00 0	
5.005	OD42503/2022-20	)23				_		
	Mix seal surfacing Providing, laying and rolling of close-graded premix surfacing material of 20mm thickness composed of 11.2mm to 0.9mm Type-A aggregate using penetration grade bitumen to required line, grade and level to serve as wearing course on previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 8-10 KN static roller and finishing to required level and grades as per Technical specification cluse 509 of MORD(Usage of bitumen is 22.00Kg/(10m2)By Manual Means							
	penetration grade on previously prepwith a three wheel per Technical spec	bitumen to pared base 8-10 KN cification o	composed of or required lines, including m static roller a cluse 509 of	e,grade and ixing in a sui and finishing	0.9mm Type level to serve table plant,la to required	e-A aggrege as weari aying and level and	gate using ng course rolling	
	penetration grade on previously prepwith a three wheel per Technical spec	bitumen to bared base 8-10 KN bification of y Manual	composed of or required lines, including m static roller a cluse 509 of	e,grade and ixing in a sui and finishing	0.9mm Type level to serve table plant,la to required	e-A aggrege as weari aying and level and	gate using ng course rolling	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Total						13200.00	
				To	otal Quantit	y in sqm	13200.00	
5.006	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)							
	Providing BM							
	For BM	1	2000.000	1.100	0.050		110.000	
	Total						110.000	
				To	tal Quantit	y in cum	110.000	
5.007	5.6.1.a		13K					
	transporting the ho sensor control to the wheeled, vibratory MORTH specification nominal size)	he require and tand	d grade, leve em rollers to	l, and alignm achieve the	nent, rolling desired comp	with smoo	oth per	
	Providing BC			I				
	For BC	1	2000.000	1.300	0.030		78.000	
	Total						78.000	
				To	tal Quantit	y in cum	78.000	
5.008	5.2.a							
	Providing and app distributor at the ra cleaned with mech	ate of 0.20	0 - 0.30 kg pe					
	Providing and app	olying tac	k coat					
	For BM	1	2000.000	1.000			2000.000	
	For BC	1	2000.000	1.300			2600.000	
	Total						4600.000	
				To	otal Quantit	y in sqm	4600.000	
5.009	OD41643/2022-20	)23						
	OD41643/2022-2023  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.							

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Taking out CC pa	ver block	_	×					
	CC paver block	1	1000.000	1.200			1200.000		
	Total						1200.000		
				To	otal Quantit	y in sqm	1200.000		
5.010	OD41644/2022-20	)23							
	required line, level compacted bed of the direction of En	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, 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. (Old CC paver blocks shall be supplied by the department free of cost.)							
	Laying CC paver b	olock							
	CC paver block	1	1000.000	1.200			1200.000		
	Total								
				To	otal Quantit	y in sqm	1200.000		
6	Road Restoration	Charges	- G						
6.001	4.1.6		(41)						
	Providing and layi of centering and sh sand: 6 graded sto	nuttering -	All work up	to plinth lev					
	CC 1:3:6with 40 n	nm B/S	e-PLATFOR	M FOR THE M	ANAGEMENT				
	Road restoration	1	3000.000	1.200	0.100		360.000		
	Total						360.000		
				To	tal Quantit	y in cum	360.000		
6.002	4.1.3								
	Providing and layi of centering and sh (zone-III) : 4 grade	nuttering - ed stone a	All work up	to plinth lev	el:1:2:4 (cer				
	CC 1:2:4 with 20 r	mm B/S	<u> </u>	1					
	Road restoration	1	3000.000	1.200	0.100		360.000		
	Total						360.000		
				To	tal Quantit	y in cum	360.000		
7	Road Restoration (	Charges to	be remitted	to other age	ncies				
7.001	OD42308/2022-20	)23							
	Road restoration c N0.59/2020/PWD		Berm cuttin	g as per 30.0	07.2020G.O(	Ms)			
	Berm cutting	Г	П						
	Road restoration	1	6000.000	1.000			6000.000		
	Total						6000.000		
				To	otal Quantit	y in sqm	6000.000		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
7.002	OD42421/2022-20	)23					
	Road restoration c N0.59/2020/PWD		shoulder cu	tting as per 3	30.07.2020G	O(Ms)	
	Shoulder cutting						
	Road restoration	1	5000.000	1.000			5000.000
	Total						5000.000
				To	tal Quantit	y in sqm	5000.000
7.003	OD42323/2022-20	)23					
	Road restoration of	charges fo	r concrete ro	ad 	surface		
	Concreting					<u> </u>	
	Road restoration	1	1500.000	1.000			1500.000
	Total						1500.000
				To	tal Quantit	y in sqm	1500.000
8	Renovation of Exi	sting Sum	p at Koovap	oilly			
8.001	26.35.3		(AL)				
	complete as per di (The payment shal injected.)Epoxy in	ll be made jection gr	on the basis out in concre	of actual we te/RCC work	ight of approve		
	Providing approv	ed Epoxy	injection gro	out in concre	te		
	Epoxy injection grout in concrete	1	15.000				15.000
	Total						15.000
				7	Fotal Quant	ity in kg	15.000
8.002	13.1.1						
	12 mm cement pla	ster of mi	x:1:4 ( 1 cem	ent: 4 fine s	and)		
	12mm cement pla	ster of mi	x 1:4				
	Side wall - out side	1	43.200	3.300			142.560
	Side wall - roof slab top and under side	1	46.200	0.750			34.650
	Total						177.210
				To	tal Quantit	y in sqm	177.210
8.003	13.7.1						
	12 mm cement pla cement : 3 fine sar		ned with a flo	ating coat of	neat cement	t of mix:1:	3 (1
	12mm cement pla	ster of mi	x 1:3				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Side wall - in side	1	40.800	3.300			134.640	
	column	4	1.200	3.300			15.840	
	Total						150.480	
				To	otal Quantit	y in sqm	150.480	
8.004	13.21							
	Extra for providing proportion recomn				ial in cement	t plaster w	ork in	
	Providing water proofing compound in cement plastering.							
	Providing water proofing compound in cement plastering.	1	135.000			4.9400 00	666.900	
	Total						666.900	
			-63		Total Quant	tity in kg	666.900	
8.005	13.43.1							
	Applying one coat manufacture on wa					brand and		
	Applying one coa	t of water	thinnable ce	ment primer				
	Qnty same as item no. 1	1	177.210	M FOR THE M WORKS	ANAGEMENT		177.210	
	Total						177.210	
				To	otal Quantit	y in sqm	177.210	
8.006	13.60.1							
	Wall painting with an even shade:Two				d brand and	manufactu	re to give	
	Wall painting with	acrylic e	mulsion pain	ıt				
	Qnty same as item no. 1	1	177.210				177.210	
	Total						177.210	
				Te	otal Quantit	y in sqm	177.210	
8.007	13.71							
	Lettering with blac	k Japan p	oint of approv	ved brand an	d manufactu	re		
	Lettering							
	Lettering	100				15.000 000	1500.000	
	Total						1500.000	
			Total Quan	ntity in per	Letter per c	m height	1500.000	

## **ABSTRACT ESTIMATE**

Jal Jeevan Mission (JJM)-JJM-WSS to Kudayathoor panchayath in Idukki District.-Providing
Distribution System and Providing FHTC to various zones- package II-General Civil Work

Sl No	Specification	Quantity	Rate	Amount					
1	Cost of materials								
1.001	100.98.115								
	Supply of DI K9 Pipe Conforming	to IS 8329/2000	), 100mm Dia.						
	Net Total	6611.000metr e	@1257.56/metre	8313729.16					
1.002	100.98.116								
	Supply of DI K9 Pipe Conforming	to IS 8329/2000	), 150mm Dia.						
	Net Total	3806.000metr e	@1890.46/metre	7195090.76					
1.003	100.98.117	TOPOTAL							
	upply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia.								
	Net Total	1215.500metr e	@2589.09/metre	3147038.90					
1.004	100.98.138	FORM FOR THE	MANAGEMENT						
		Supply of HDPE Pipe PE 100 (IS 4984/1995), 8kg, 160mm Outer Dia.							
		204.000metre	@689.21/metre	140598.84					
1.005	100.98.155	004/4005\ 401	110 0 5						
	Supply of HDPE Pipe PE 100 (IS 4	•	g, 110mm Outer Dia	•					
	Net Total	3090.000metr e	@385.56/metre	1191380.40					
1.006	100.98.195								
	Supply of HDPE Pipe PE 100 (IS 4	984/1995), 16k	g, 110mm Outer Dia						
	Net Total	3798.000metr e	@557.74/metre	2118296.52					
1.007	100.98.154								
	Supply of HDPE Pipe PE 100 (IS 4	984/1995), 10k	g, 90mm Outer Dia.						
	Net Total	17694.000met re	@264.59/metre	4681655.46					
1.008	100.98.134								
	Supply of HDPE Pipe PE 100 (IS 4		, 90mm Outer Dia.						
	Net Total	702.000metre	@212.57/metre	149224.14					
1.009	100.98.194								
	Supply of HDPE Pipe PE 100 (IS 4	984/1995), 16kg	g, 90mm Outer Dia.						

Sl No	Specification	Quantity	Rate	Amount				
	Net Total	30108.000met re	@376.08/metre	11323016.6 4				
1.010	OD6667/2022-2023							
	Supply of 100mm GI (M) pipes		ı					
	Net Total	110.000metre	@1341.53/metre	147568.30				
1.011	OD41086/2022-2023							
	Supply of 150mm GI (M) pipes	<u> </u>						
	Net Total	60.000metre	@2090.70/metre	125442.00				
1.012	100.98.440							
	Supply of CI Air Valve, Conformin Orifice Type S1, Size 25mm.	g to IS 14848 -	2000, Single Orifice	, Small				
	Net Total	55.000no	@5636.76/no	310021.80				
1.013	100.98.445	(II III.						
	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Double Orifice Type DS2, Size 40mm.							
	Net Total	15.000no	@6950.42/no	104256.30				
1.014	100.98.457							
	Supply of CI Double Flanged Sluic Valve with Cap PN 1.6, Size 80mm		ming to IS 14846 - 20	000, Sluice				
	Net Total	48.000no	@6624.03/no	317953.44				
1.015	100.98.458							
	Supply of CI Double Flanged Sluic Valve with Cap PN 1.6, Size 100m	e Valve Conform.	ming to IS 14846 - 20	000, Sluice				
	Net Total	15.000no	@9003.95/no	135059.25				
1.016	100.98.460							
	Supply of CI Double Flanged Sluic Valve with Cap PN 1.6, Size 150m	e Valve Conform.	ming to IS 14846 - 20	000, Sluice				
	Net Total	5.000no	@13396.74/no	66983.70				
1.017	100.98.461							
	Supply of CI Double Flanged Sluic Valve with Cap PN 1.6, Size 200m		ming to IS 14846 - 20	000, Sluice				
	Net Total	2.000no	@23723.64/no	47447.28				
			Heading Total(Rs)	39514762.8 9				
2	Working charge for Distribution	System						
2.001	100.1.1							
	Excavating trenches of required wide sockets, and dressing of sides, ramp getting out the excavated soil, and the exceeding 20cm in depth, including	ning of bottoms hen returning th	, depth up to 1.5m, in the soil as required, in	ncluding layers not				

Sl No	Specification	Quantity	Rate	Amount			
	watering, etc., and disposing of surp 50m, in all kinds of soil.	olus excavated s	soil as directed, with	in a lead of			
	Net Total	25881.304cu m	@579.88/cum	15008050.5 6			
2.002	100.1.5						
	Excavating trenches of required wid sockets, and dressing of sides, raming getting out the excavated soil, and the exceeding 20cm in depth, including watering, etc., and disposing of surpom, in Ordinary Rock.	ning of bottoms hen returning the consolidating early olus excavated s	de depth up to 1.5m, in the soil as required, in each deposited layer soil as directed, with	ncluding layers not by ramming, in a lead of 50			
		7394.658cum	@842.08/cum	6226893.61			
2.003	100.2.7						
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not 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 50m, in Medium Rock where Blasting is Prohibited.						
	Net Total	1848.665cum	@1400.34/cum	2588759.55			
2.004	100.4.1						
	Excavating in hard rock for trenche materials for measurements and dislead of 50m and lift up to 1.50m (deby earth filled cement bags during be (200 Nos. of earth filled cement bags).	posing unservice opth from 0.0m plasting to avoice	eable materials with to 1.50m) and provious damages to nearby	in the initial ding protection			
	Net Total	1848.665cum	@4094.08/cum	7568582.40			
2.005	50.2.25.1						
	Filling with contractor's own earth (foundations etc. in layers not exceed layer by ramming and watering, lea of site Engineer-in-charge	ding 20 cm in d	epth, consolidating e	ach deposited			
	Net Total	1831.000cum	@548.87/cum	1004980.97			
2.006	100.8.1						
	Fencing one side of trenches, 1.50m tape in vertical casuarina pole (girth						
	Net Total	20000.000met re	@28.84/metre	576800.00			
2.007	100.59.1						
	Cutting the bituminous / concrete ro 200mm along the sides of proposed any damage to other utilities, include and plant, cost of consumables and caution boards, traffic diversion, an complete, before carrying out the de	alignment of the charges charges for light das per the direction.	ne pipe to be laid with for hire and conveyuting, watching, ribboat ection of departments	hout causing ance of tools on fencing, al officers etc.			

Sl No	Specification	Quantity	Rate	Amount
	mechanical means and carrying out	the excavation.		
	Net Total	20280.000met re	@31.77/metre	644295.60
2.008	15.59			
	Dismantling of flexible pavement (disposal of dismantled material up Engineer-in-charge.			
	Net Total	2014.000cum	@394.70/cum	794925.80
2.009	100.10.1			
	Laying HDPE pipes (IS: 4984) on lead and aligning the pipes, electro- electrofusion machines, testing the working pressure and after testing, into the trenches already made, test before back filling and levelling the appliances etc., complete but exclude Outer Diameter pipes.	fusion welding pipeline thus fal aligning the pip ing the line to so trenches include	using automatic or s bricated to suit the hy eline, lowering the p uitable pressure with ling all labour charge	emi-automatic ydraulic ipe in position potable water e, hire for
	Net Total	48497.000met re	@97.37/metre	4722152.89
2.010	100.10.2	3-11		
	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	6883.000metr e	@132.06/metre	908968.98
2.011	100.10.5			
	Laying HDPE pipes (IS: 4984) on lead and aligning the pipes, electro-electrofusion machines, testing the working pressure and after testing, into the trenches already made, test before back filling and levelling the appliances etc., complete but exclude Outside Diameter Pipes.	fusion welding pipeline thus fal aligning the pip ing the line to so trenches include	using automatic or s bricated to suit the hy eline, lowering the p uitable pressure with ling all labour charge	emi-automatic ydraulic ipe in position potable water e, hire for
	Net Total	203.000metre	@224.62/metre	45597.86
2.012	18.12.8			
	Providing and fixing G.I. pipes conrefilling etc. External work80 mm of			nching and
	Net Total	3270.000metr e	@1064.49/metre	3480882.30

Sl No	Specification	Quantity	Rate	Amount	
2.013	100.12.9				
	Conveying and fixing G.I. pipes correfilling etc., but excluding cost of planeter nominal bore.				
	Net Total	110.000metre	@245.48/metre	27002.80	
2.014	100.12.11				
	Conveying and fixing G.I. pipes correfilling etc., but excluding cost of planeter nominal bore.				
	Net Total	60.000metre	@304.13/metre	18247.80	
2.015	100.14.1				
	Conveying and laying S&S Ce conforming to IS: 8329 excluding c Iron Class K-9 Pipes.				
	Net Total	6476.000metr e	@61.40/metre	397626.40	
2.016	100.14.2				
	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 150mm diameter Ductile Iron Class K-9 Pipes.				
	Net Total	3729.000metr e	@91.51/metre	341240.79	
2.017	100.14.3				
	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Ductile Iron Class K-9 Pipes.				
	Net Total	1191.000metr e	@127.49/metre	151840.59	
2.018	18.83.2				
	Labour for cutting C.I. pipe with steel saw.100 mm diameter C.I. pipe				
	Net Total	90.000Each Cut	@179.40/Each Cut	16146.00	
2.019	18.83.4				
	Labour for cutting C.I. pipe with steel saw.150 mm diameter C.I. pipe				
	Net Total	52.000Each Cut	@337.10/Each Cut	17529.20	
2.020	18.83.5				
	Labour for cutting C.I. pipe with ste	eel saw.200 mm	diameter C.I. pipe		
	Net Total	40.000Each Cut	@449.61/Each Cut	17984.40	
2.021	18.67.1				

Sl No	Specification	Quantity	Rate	Amount
	Providing and laying S & S C.I. Staper IS 13382:Upto 300 mm dia	andard specials	suitable for mechani	cal jointing as
	Net Total	4.170quintal	@14708.68/quint al	61335.20
2.022	18.68.1			
	Providing and laying D.I specials of IS: 9523:Upt 600 mm dia	f class K - 12 su	iitable for push - on j	ointing as per
	Net Total	48.230quintal	@21003.05/quint al	1012977.10
2.023	18.70.1			
	Providing push - on-joints to Centri Pipes including testing of joints and pipes			
	Net Total	1080.000joint	@112.62/joint	121629.60
2.024	18.70.2	111		
	Providing push - on-joints to Centri Pipes including testing of joints and pipes			
	Net Total	622.000joint	@184.10/joint	114510.20
2.025	18.70.3			
	Providing push - on-joints to Centri Pipes including testing of joints and pipes			
	Net Total	200.000joint	@270.11/joint	54022.00
2.026	18.30.2			
	Providing flanged joints to double f testing of joints:100 mm diameter p		pipes and specials, i	ncluding
	Net Total	24.000no	@325.59/no	7814.16
2.027	18.30.4			
	Providing flanged joints to double f testing of joints:150 mm diameter p		pipes and specials, i	including
	Net Total	12.000no	@402.30/no	4827.60
2.028	18.30.5			
	Providing flanged joints to double f	langed C.I./ D.I	pipes and specials, i	
	testing of joints:200 mm diameter p		- r-r, -	including
			@436.82/no	3494.56
2.029	testing of joints:200 mm diameter p  Net Total  100.32.1	8.000no	@436.82/no	3494.56
2.029	testing of joints:200 mm diameter p  Net Total	8.000no Acting Air Valvee, but excluding	@436.82/no e of approved quality g the cost of air valve	3494.56 with bolts,

Sl No	Specification	Quantity	Rate	Amount	
2.030	100.32.2				
	Conveying and fixing C. I. Single Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 40mm Single Acting Air Valve.				
	Net Total	15.000no	@184.44/no	2766.60	
2.031	100.31.1.1				
	Conveying and fixing C.I. sluice vainsertions etc., complete, but excluding will be paid separately): 80mm diar	ling the cost of			
	Net Total	48.000no	@613.80/no	29462.40	
2.032	100.31.1.2				
	Conveying and fixing C.I. sluice vainsertions etc., complete, but excluding will be paid separately): 100mm dia	ling the cost of	by providing bolts, r the valve (tail pieces	outs, rubber , if required,	
	Net Total	15.000no	@925.37/no	13880.55	
2.033	100.31.1.4	KOKA			
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rub insertions etc., complete, but excluding the cost of the valve (tail pieces, if requ will be paid separately): 150mm diameter, Class I.				
	Net Total	5.000no	@1253.32/no	6266.60	
2.034	100.31.1.5 GPLAT	FORM FOR THE	MANAGEMENT		
	Conveying and fixing C.I. sluice vainsertions etc., complete, but excluding will be paid separately): 200mm dia	ling the cost of			
	Net Total	2.000no	@1625.85/no	3251.70	
2.035	OD41513/2022-2023				
	Supply and fixing of stainless steel 9739(1981)	spring loaded p	ressure relief valve	as per IS	
	Net Total	30.000no	@6229.37/no	186881.10	
2.036	100.35.1				
	Testing 100mm DI/CI pipeline with potable water to the required test pressure 100 mm dia				
	Net Total	6476.000metr e	@24.36/metre	157755.36	
2.037	100.35.2				
	Testing 150mm DI/CI pipeline with potable water to the required test pressure 150 mm dia Observed Data derived from item no.1018 of PHED DATA				
	Net Total	3729.000metr e	@32.86/metre	122534.94	
2.038	100.35.3				

Sl No	Specification	Quantity	Rate	Amount
	Testing 200mm DI/CI pipeline with 200 mm dia Observed Data derived from item n	•		ressure
	Net Total	1191.000metr e	@41.66/metre	49617.06
2.039	100.37.5.1			
	In situ fabrication of M.S. pipes of including cost and conveyance char of painting the steel work with two even shade over an under-coat of process.	ges of M.S. pla or more coat de	te, all fabrication cha cluxe multi surface pa	rges, charges
	Net Total	150.000metre	@4182.35/metre	627352.50
2.040	100.37.5.2			
	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 present thick M.S. plates.	S. plate, all fabr more coat delux imer etc., comp	ication charges, char ke multi surface pain blete: For pipes fabric	ges of t to give an cated with
	Net Total	6.000no	@1161.73/no	6970.38
2.041	100.37.5.3			
	Cutting 100mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla	hire <mark>charges</mark> of	tools etc., complete:	y gas cutting For pipes
	Net Total	15.000no	@119.81/no	1797.15
2.042	100.37.5.4			
	Welding 100mm (I.D.) M.S. pipes to welding machine including cost of tools etc., complete: For pipes fa	gas and welding	g rods, all labour and	hire charges
	Net Total	15.000no	@452.90/no	6793.50
2.043	100.37.5.5			
	Grinding cut and weld edges of 100 including all labour and hire charge 8mm thick M.S. plates.			
	Net Total	15.000no	@85.07/no	1276.05
2.044	100.37.6.1			
	In situ fabrication of M.S. pipes of sincluding cost and conveyance char of painting the steel work with two even shade over an under-coat of processing the steel work.	ges of M.S. pla or more coat de	te, all fabrication cha cluxe multi surface pa	rges, charges
	Net Total	100.000metre	@5174.49/metre	517449.00
2.045	100.37.6.2			
	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or	S. plate, all fabr	ication charges, char	ges of

Sl No	Specification	Quantity	Rate	Amount	
	even shade over an under-coat of pr 8mm thick M.S. plates.	imer etc., comp	olete: For pipes fabric	cated with	
	Net Total	5.000no	@1544.03/no	7720.15	
2.046	100.37.6.3				
	Cutting 150mm (I.D.) M.S. pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.				
	Net Total	10.000no	@171.45/no	1714.50	
2.047	100.37.6.4				
	Welding 150mm (I.D.) M.S. pipes for welding machine including cost of gof tools etc., complete: For pipes fall	gas and welding	grods, all labour and	hire charges	
	Net Total	10.000no	@648.09/no	6480.90	
2.048	100.37.6.5				
	Grinding cut and weld edges of 150 including all labour and hire charge 8mm thick M.S. plates.	mm (I.D.) M.S.s of tools etc., c	pipes during fabrica complete: For pipes f	ation work abricated with	
	Net Total	10.000no	@121.73/no	1217.30	
2.049	100.37.7.1				
	In situ fabrication of M.S. pipes of sincluding cost and conveyance char of painting the steel work with two even shade over an under-coat of pr	ges of M.S. pla or more coat de	te, all fabrication cha cluxe multi surface pa	arges, charges	
	Net Total	60.000metre	@6165.53/metre	369931.80	
2.050	100.37.7.2				
	Fabricating M.S. flanges of diameter 200mm 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.				
	Net Total	3.000no	@2081.10/no	6243.30	
2.051	100.37.7.3				
	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	8.000no	@223.11/no	1784.88	
2.052	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	grods, all labour and	hire charges	
	Net Total	8.000no	@843.32/no	6746.56	
2.053	100.37.7.5				

Sl No	Specification	Quantity	Rate	Amount
	Grinding cut and weld edges of 200 including all labour and hire charge 8mm thick M.S. plates.	omm (I.D.) M.S.s of tools etc., o	. pipes during fabrica complete: For pipes f	ation work abricated with
	Net Total	8.000no	@158.40/no	1267.20
2.054	2.8.1			
	Earth work in excavation by mechanin foundation trenches or drains (no including dressing of sides and ramgetting out the excavated soil and dwithin a lead of 50 m.All kinds of so	t exceeding 1.5 ming of bottom isposal of surpli	m in width or 10 sqr s, lift up to 1.5 m, inc	n on plan), cluding
	Net Total	118.125cum	@309.99/cum	36617.57
2.055	4.1.3			
	Providing and laying in position cer cost of centering and shuttering - Al sand (zone-III) : 4 graded stone agg	ll work up to pl regate 20 mm n	inth level:1:2:4 (cem nominal size)	ent: 2 coarse
	Net Total	548.275cum	@8340.91/cum	4573112.43
2.056	5.1.2	TOWNS		
	Providing and laying in position speexcluding the cost of centering, shu to plinth level:1:1:5:3 (1 cement 1.5 nominal size	tte <mark>ring, fi</mark> nishin	g and reinforcement	- All work up
	Net Total	49.683cum	@9483.13/cum	471150.35
2.057	5.9.2			
	Centering and shuttering including thickness) including attached pilaste			
	Net Total	1417.950sqm	@748.62/sqm	1061505.73
2.058	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 upto plinth lev	ghtening, cutting, ber elThermo - Mechani	nding, placing cally Treated
	Net Total	3250.000kilo gram	@102.61/kilogra m	333482.50
			Heading Total(Rs)	54560213.6 3
3	Providing FHTC to various Zone	S		
3.001	100.60.13.1.2			
	Providing 15mm (1/2 inch) house of PVC / HDPE mains up to 110 mm of PE Pipe, PE80, PN16, Conforming Compression / GM / Brass specials way wheel valve, bend, MTA, FTA etc. and connecting with the mains, trenching and refilling in all kinds of and trench of average cross section	dia., up to a leng to IS 4984: 201 viz. brass ferrul, couplers, PVC testing the join of soil up to a de	gth of 5m using 20mm 6 or later edition and le, brass hexagonal not C Service Saddle of so ts etc. complete inclu- epth of 1.50m for ma	m ( 1/2 inch ) I PP PN 16 ipple, GM full uitable size iding in line tracing

Sl No	Specification	Quantity	Rate	Amount	
	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	1260.000no	@7137.54/no	8993300.40	
3.002	100.60.13.3.2				
	Providing 20mm (3/4 inch) house of PVC / HDPE mains up to 110 mm of PE Pipe, PE80, PN16, Conforming Compression / GM / Brass specials way wheel valve, bend, MTA, FTA etc. and connecting with the mains, trenching and refilling in all kinds of and trench of average cross section service pipe, fixing water meter, lig control etc. complete including cost and labour charges, including the coweather with ISI mark resistant PP x 150mm, but excluding charges for etc, and as per the direction of the dir	dia., up to a lengto IS 4984: 201 viz. brass ferrul, couplers, PVC testing the join of soil up to a de 0.3m x 0.75m fhting, watching of materials, his of tested Class / PE meter box r cutting the cor	gth of 5m using 25m 6 or later edition and le, brass hexagonal not be structured by the structure of 1.50m for matter for tools, cost of costs B Multijet water not minimum size 300 occrete / tarred / bitum	m (3/4 inch) l PP PN 16 ipple, GM full uitable size uding in line tracing pipe and boards, traffic consumables neter and Omm x 200mm	
	Net Total	560.000no	@8021.00/no	4491760.00	
3.003	100.60.13.7.2	FORM FOR THE	MANAGEMENT		
	Providing 15mm (1/2 inch) house of CI mains up to 125 mm dia., up to a PE80, PN16, Conforming to IS 498 Compression / GM / Brass specials way wheel valve, bend, MTA, FTA testing the joints etc. complete incluto a depth of 1.50m for main line tra 0.75m for laying connection pipe ar watching, providing caution boards materials, hire for tools, cost of contested Class B Multijet water meter box of minimum size 300mm x 200 the concrete / tarred / bituminous rodepartmental officers	a length of 5 m at 2016 or later viz. brass ferrul, couplers etc. a ading trenching acing and trenched service pipe, traffic control sumables and lawith ISI mark at mm x 150mm,	using 20mm (1/2 included the edition and PP PN 1 le, brass hexagonal number of and refilling in all king of average cross sefixing water meter, letc. complete included bour charges, included the edition of the excluding charge per the direction of the edition and weather resistant but excluding charge per the direction of the edition of the edition and weather resistant but excluding charge per the direction of the edition and weather resistant but excluding charge per the direction of the edition and provides the e	ch ) PE Pipe, 6 ipple, GM full the mains, inds of soil up ction 0.3m x lighting, ing cost of ling the cost of PP / PE meter es for cutting	
3.004	100.60.13.9.2				
	Providing 20mm (3/4 inch) house of CI mains up to 125 mm dia., up to a PE80, PN16, Conforming to IS 498 Compression / GM / Brass specials way wheel valve, bend, MTA, FTA testing the joints etc. complete incluto a depth of 1.50m for main line tra 0.75m for laying connection pipe ar watching, providing caution boards	a length of 5 m of 4: 2016 or later viz. brass ferrul, couplers etc. a dding trenching acing and trenching and service pipe,	using 25mm (3/4 included edition and PP PN 1 le, brass hexagonal nand connecting with the and refilling in all king of average cross sefixing water meter, 1	ch ) PE Pipe, 6 ipple, GM full the mains, inds of soil up ction 0.3m x lighting,	

Sl No	Specification	Quantity	Rate	Amount	
	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	75.000no	@9204.69/no	690351.75	
3.005	100.60.14.7.2				
	Providing 15mm (1/2 inch) house of CI mains from 150mm to 200mm d PE Pipe, PE80, PN16, Conforming Compression / GM / Brass specials way wheel valve, bend, MTA, FTA testing the joints etc. complete incluto a depth of 1.50m for main line tra 0.75m for laying connection pipe ar watching, providing caution boards, materials, hire for tools, cost of contested Class B Multijet water meter box of minimum size 300mm x 200 the concrete / tarred / bituminous rodepartmental officers.	ia., up to a leng to IS 4984: 201 viz. brass ferrul, couplers etc. a ading trenching acing and trenched service pipe, traffic control sumables and la with ISI mark a mm x 150mm,	th of 5 m using 20mm 6 or later edition and le, brass hexagonal mand connecting with a and refilling in all king of average cross sefixing water meter, letc. complete includabour charges, includand weather resistant but excluding charge	m (1/2 inch) 1 PP PN 16 hipple, GM full the mains, inds of soil up ction 0.3m x lighting, ing cost of ling the cost of 2 PP / PE meter es for cutting	
3.006		130.000110	@ 8024.30/IIO	1293073.00	
3.000	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.				
	Net Total	65.000no	@9507.98/no	618018.70	
3.007	100.60.21.1.1			0. 1.	
	Providing 15mm (1/2 inch) GM A water connection, using 20mm (1/2 4984: 2016 or later edition and PP I materials, consumables, hire for too directions of the department officers	l inch ) PE Pipe PN 16 Compres Is and labour ch s.	, PE80, PN16, Confo sion specials includinarges etc. complete	orming to IS ng cost of and as per the	
2.000	Net Total	1550.000no	@996.49/no	1544559.50	
3.008	100.60.21.2.1 Providing 20mm ( 3/4 inch ) GM A	ir Valve in the	water meter assembly	y for 20mm	

Sl No	Specification	Quantity	Rate	Amount
	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	700.000no	@1252.94/no	877058.00
3.009	100.60.23.3.1			
	Providing 15mm PVC Tap in the w connection, using 20mm (1/2 inch specials and PP PN 16 Compression consumables, hire charges for tools direction of departmental officers.  Net Total	) Indian Standar n specials include and labour char	rd uPVC Class 6 pip ling cost of materials rges etc. complete an	es, uPVC
3.010	100.60.23.4.1	1330.000110	@063.07/II0	1039088.30
3.010	Providing 15mm PVC Tap in the w connection, using 25mm (3/4 inch specials and PP PN 16 Compression consumables, hire charges for tools direction of departmental officers.	) Indian Standar n specials includ	rd Člass 6 uPVC pip ling cost of materials	es, uPVC
	Net Total	700.000no	@785.68/no	549976.00
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 the directions of the department officers.			
	Net Total	27900.000met re	@179.74/metre	5014746.00
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.			N 16 specials with trench of ervice pipe, ing cost of mplete, but
	Net Total	28000.000met re	@195.27/metre	5467560.00
3.013	100.59.1			
	Cutting the bituminous / concrete re 200mm along the sides of proposed any damage to other utilities, includand plant, cost of consumables and	l alignment of the ling the charges	ne pipe to be laid with for hire and convey:	hout causing ance of tools

Sl No	Specification	Quantity	Rate	Amount
	caution boards, traffic diversion, an complete, before carrying out the demechanical means and carrying out	emolition of bit	uminous / concrete re	
	Net Total	1840.000metr e	@31.77/metre	58456.80
3.014	15.59			
	Dismantling of flexible pavement (disposal of dismantled material up t Engineer-in-charge.			
	Net Total	91.200cum	@394.70/cum	35996.64
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			
	Net Total	450.000no	@4031.21/no	1814044.50
3.016	100.60.8.2	BUC WORKS		
	Replacing the chocked / damaged 20mm (3/4 inch) house connection with 20mm (3/4 inch) water meter from existing mains, up to a length of 5m using 25mm 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 & amp; 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.			
	Net Total	313.000no	@4456.21/no	1394793.73
3.017	4.1.3			
	Providing and laying in position cercost of centering and shuttering - A sand (zone-III) : 4 graded stone agg	ll work up to pl	inth level:1:2:4 (cem	
	Net Total	68.400cum	@8340.91/cum	570518.24
			Heading Total(Rs)	35639474.5 6
4	Application fee and connections			

Sl No	Specification	Quantity	Rate	Amount
4.001	OD7064/2022-2023			
	Charges for application fee, connec having length below 30 m		esting fee etc for con	nections
	Net Total	1550.000no	@575.00/no	891250.00
4.002	OD7065/2022-2023			
	Charges for application fee, connec having length above 30 m		esting fee etc for con	nections
	Net Total	700.000no	@1075.00/no	752500.00
4.003	OD42319/2022-2023			
	Geo Tagging to the new Service con	nnections		
	Net Total	2250.000no	@20.00/no	45000.00
			<b>Heading Total(Rs)</b>	1688750.00
5	Road Restoration Charges			
5.001	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	6 <mark>160.0</mark> 00cum	@48.79/cum	300546.40
5.002	4.1.B.2	FORM FOR THE	MANAGEMENT	
	Construction of granular sub-base b layers with a motor grader on a prep rotavator at OMC, and compacting density, complete as per clause 401 Mix in Place Method	pared surface, m with a vibratory	nixing by mix in-place roller to achieve the	e method with desired
	Net Total	2800.000cum	@3356.67/cum	9398676.00
5.003	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.			OMC in g in uniform d compacting
	Net Total	2800.000cum	@3375.91/cum	9452548.00
5.004	5.1.a			
	Providing and applying primer coat with bitumen emulsion (SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means.			
	Net Total	15400.000sq m	@73.49/sqm	1131746.00
5.005	OD42503/2022-2023			
	Mix seal surfacing Providing, laying material of 20mm thickness compositions			

Sl No	Specification	Quantity	Rate	Amount		
	penetration grade bitumen to required line, grade and level to serve as wearing course on previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 8-10 KN static roller and finishing to required level and grades as per Technical specification cluse 509 of MORD(Usage of bitumen is 22.00Kg/(10m2)By Manual Means					
	Net Total	13200.000sq m	@270.41/sqm	3569412.00		
5.006	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	110.000cum	@8758.31/cum	963414.10		
5.007	5.6.1.a	Ann.				
	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 )					
	Net Total	78.000cum	@13072.20/cum	1019631.60		
5.008	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 bitumin surface cleaned with mechanical broom.					
	Net Total	4600.000sqm	@11.95/sqm	54970.00		
5.009	OD41643/2022-2023					
	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 1200.000sqm @850.51/sqm 1020612.00					
5.010	Net Total	1200.000sqiii	@850.51/sqm	1020612.00		
5.010	DD41644/2022-2023  Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, 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. (Old CC paver blocks shall be supplied by the department free of cost.)					
	Net Total	1200.000sqm	@2931.79/sqm	3518148.00		
			Heading Total(Rs)	30429704.1 0		

Sl No	Specification	Quantity	Rate	Amount		
6	Road Restoration Charges					
6.001	4.1.6					
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40 mm nominal size)					
	Net Total	360.000cum	@7527.05/cum	2709738.00		
6.002	4.1.3					
	Providing and laying in position cement concrete of specified grade excluding the cost 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)					
	Net Total	360.000cum	@8340.91/cum	3002727.60		
			Heading Total(Rs)	5712465.60		
7	Road Restoration Charges to be remitted to other agencies					
7.001	OD42308/2022-2023					
	Road restoration charges for Berm cutting as per 30.07.2020G.O(Ms) N0.59/2020/PWD dated					
	Net Total	6000.000sqm	@321.29/sqm	1927740.00		
7.002	OD42421/2022-2023					
	Road restoration charges for shoulder cutting as per 30.07.2020G.O(Ms) N0.59/2020/PWD dated					
	Net Total	5000.000sqm	@1366.76/sqm	6833800.00		
7.003	OD42323/2022-2023					
	Road restoration charges for concrete road surface					
	Net Total	1500.000sqm	@4886.99/sqm	7330485.00		
			Heading Total(Rs)	16092025.0 0		
8 Renovation of Existing Sump at Koovappilly						
8.001	26.35.3					
	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in-Charge. (The payment shall be made on the basis of actual weight of approved grout injected.)Epoxy injection grout in concrete/RCC work of approved make					
	Net Total	15.000kg	@973.43/kg	14601.45		
8.002	13.1.1					
	12 mm cement plaster of mix:1:4 (	1 cement : 4 fin	e sand)			
	Net Total	177.210sqm	@327.87/sqm	58101.84		
8.003	13.7.1					
	12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 ( 1					

Sl No	Specification	Quantity	Rate	Amount			
	cement : 3 fine sand)						
	Net Total	150.480sqm	@418.80/sqm	63021.02			
8.004	13.21						
	Extra for providing and mixing water proofing material in cement plaster wor proportion recommended by the manufacturers.						
	Net Total	666.900kg	@1.47/kg	980.34			
8.005	8.005 13.43.1						
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer						
	Net Total	177.210sqm	@73.75/sqm	13069.24			
8.006	13.60.1						
	Wall painting with acrylic emulsion paint of approved brand and manufacture to given even shade: Two or more coats on new work						
	Net Total	177.210sqm	@158.06/sqm	28009.81			
8.007	13.71						
	Lettering with black Japan pint of a	pproved brand	and manufacture				
	Net Total	1500.000per Letter per cm height	@5.82/per Letter per cm height	8730.00			
	Heading Total(Rs) 186513.70						
		183823909.4 8					
10	Extra Charges						
	Provision for GST						
9.001		183823909.48	18.00%	33088303.7 1			
	<b>Grand Total</b> 216912213						
	Round off 87786.						
	Rounded Total(Rs) 217000						
	Rupees Twenty One Crore Seventy Lakh						