AS and TS Approved

Detailed Estimate

JJM- KUMARAMANGALAM- 03&08-PROVIDING FHTC TO ALL HOUSEHOLDS OF KUMARAMANGALAM PANCHAYATH IN IDUKKI DISTRICT- Supply and laying of 250mm DI K9 Clear Water Gravity Main and Distribution lines In Zone-II.

(Dsor year: 2016)

SI No	Description	No	L	В	D	CF	Quantity	Remark
	108-Supplying and	laying Dis	tribution sy	stem in Zo	nes II (C	ost Index:	38.91 %)	
1	100.1.1 Excavating trenches of dressing of sides, ramme then returning the soil of deposited layer by ramplead of 50 m: All kinds of soil (Ref. Item No. 2.10.1 of	ning of both as required ming, wate	toms, depth , in layers n	up to 1.5 mot exceeding	n, including g 20 cm in	getting out t depth, inclu	the excavate ding consoli	ed soil, and datingeach
	200mm DI K9 pipes, T r e n c h size=(0.9+0.7)/2*1.15	1 Ver	100.000	0.800	1.150	0.45	41.400	
	160 m m P V C, width = 0.6 m, depth = 1.1 m		1382.000	0.600	1.100	0.45	410.454	
	1 4 0 m m PVC, width = 0.6 m, depth = 1.05 m	1	409.000	0.600	1.0500	0.45	115.952	
	1 1 0 m m PVC, width=0.6 m, depth=1.0 m	1	459.000	0.600	1.000	0.45	123.930	
					То	tal Quantity	691.736 cu	ım
				Т	otal Deduct	ed Quantity	0.000 cum	
					Net To	tal Quantity	691.736 cu	m
			Sa	y 691.736 c	cum @ Rs 4	05.84 / cum	Rs 280	734.14
2	100.1.5 Excavating trenches of dressing of sides, rammethen returning the soil of deposited layer by ramplead of 50 m:"	ning of bot as required	toms, depth , in layers n	up to 1.5 m ot exceedin	n, including g 20 cm in	getting out t depth, inclu	the excavate ding consoli	ed soil, and datingeach

	(Ref. Item No. 2.13.1 o	,							
	200mm DI k9 pipes	1	100.000	0.800	1.150	0.3	27.600		
	160mm PVC	1	1382.000	0.600	1.100	0.3	273.636		
	140mm PVC	1	409.000	0.600	1.0500	0.3	77.301		
	110mm PVC	1	459.000	0.600	1.000	0.3	82.620		
					To	tal Quantity	461.157 сเ	ım	
				Т	Total Deduct	ed Quantity	0.000 cum		
	Net Total Quantity 461.15							m	
			Say	y 461.157 c	cum @ Rs 57	71.82 / cum	Rs 263	698.80	
	deposited layer by ran lead of 50 m : Medium Rock (blasting New Data derived from	prohibited)	11114	d disposing	of surplus e	excavated s	oil as direct	ed, with	
	200mm DI k9 pipes	1	100.000	0.800	1.150	0.2	18.401		
	160mm PVC	1/Cer	1382.000	0.600	1.100	0.2	182.424		
	140mm PVC	1	409.000	0.600	1.050	0.2	51.534		
	110mm PVC	1	459.000	0.600	1.000	0.2	55.080		
	-				To	tal Quantity	307.439 cı	ım	
				Т	Total Deduct	ed Quantity	ty 0.000 cum		
	Net Total Quantity 307.439 cum								
	Say 307.439 cum @ Rs 952.71 / cum Rs 292900.21								
4	100.4.1 Excavating in hard romeasurements and of 1.50m(intial depth 0 mavoid damages to near (Ref. Item No. 1004 A	lisposing ບ to 1.50m) rby structur	ches by blas inserviceable and providing	e materials g protection	s within the	intial lead ed cement	l of 50m ar bags during	nd lift u Jblastin	
4	Excavating in hard romeasurements and of 1.50m(intial depth 0 mayord damages to near	lisposing ບ to 1.50m) rby structur	ches by blas inserviceable and providing	e materials g protection	s within the	intial lead ed cement	l of 50m ar bags during	nd lift u Jblastin	
4	Excavating in hard romeasurements and of 1.50m(intial depth 0 mavoid damages to near (Ref. Item No. 1004 A	to 1.50m) to 1.50m) to 1.50m) to 1.50m) to 1.50m	ches by blas inserviceable and providing es(200 Nos.	e materials g protection of earth fill	s within then by earth fill ed cement b	intial lead ed cement pags for 10r	of 50m arbags during	nd lift u Jblastin	
4	Excavating in hard romeasurements and of 1.50m(intial depth 0 mavoid damages to near (Ref. Item No. 1004 A 200mm DI k9 pipes	to 1.50m) to 1.50m) rby structure of T C)	ches by blast inserviceable and providing es(200 Nos.	e materials g protection of earth fill 0.800	s within then by earth fill ed cement but 1.150	e intial lead ed cement pags for 10r 0.05	of 50m are bags during n3 blasting)	nd lift u Jblastin	

				T	otal Deduct	ed Quantity	0.000 cum	
							76.861 cum)
			Say	y 76.861 cu	ım @ Rs 27:	34.83 / cum	Rs 210	201.77
5	100.59.1 Cutting the bituminous sides of proposed align the charges for hire arwatching, ribbon fenci officers etc. complete, means and carrying or	nment of the nd conveya ng, caution before car	e pipe to be lance of tools boards, traing out the	aid without and plant, ffice divers	causing any cost of cons ion, and as	damage to sumables a per the dir	other utilitie nd charges ection of de	s, including for lighting, partmental
	200mm DI k9 pipes	1	100.000				100.000	
	160mm PVC	1	1382.000	B.			1382.000	
	140mm PVC	1	409.000				409.000	
	110mm PVC	1	459.000				459.000	
		619	N PZ	Sh /Y	То	tal Quantity	2350.000 r	metre
		15	YNE	W. T	otal Deduct	ed Quantity	0.000 metre	e
					Not To	tal Quantity	2350.000 n	netre
		15480-		37557Y_	net 10	tal Qualitity	2000.000 11	
6	50.2.25.1		Say 2	350.000 me	etre @ Rs 3	•		424.50
6	50.2.25.1 Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5	n depth, com m as per d	(excluding r	ock) in tren ach deposi e Engineer	etre @ Rs 3' ches, plinth ted layer by	1.67 / metre , sides of fo ramming a	Rs 74- undations e nd watering	424.50 tc. in layers
6	Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5 200mm DI k9 pipes	n depth, co	(excluding ransolidating eirection of sit	ock) in tren ach deposi e Engineer 0.960	etre @ Rs 3' ches, plinth ted layer by	1.67 / metre , sides of fo ramming a	Rs 74- undations e nd watering 4.801	424.50 tc. in layers
6	Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5 200mm DI k9 pipes 160mm PVC	n depth, com m as per d	(excluding r	ock) in tren ach deposi e Engineer	etre @ Rs 3' ches, plinth ted layer by	1.67 / metre , sides of fo ramming a	Rs 74- undations e nd watering 4.801 45.606	424.50 tc. in layers
6	Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5 200mm DI k9 pipes	n depth, com m as per d	(excluding ransolidating eirection of sit	ock) in tren ach deposi e Engineer 0.960	etre @ Rs 3' ches, plinth ted layer by	1.67 / metre , sides of fo ramming a	Rs 74- undations e nd watering 4.801	424.50 tc. in layers
6	Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5 200mm DI k9 pipes 160mm PVC	n depth, coo m as per d 1	(excluding r nsolidating e irection of sit 100.000	ock) in tren ach deposi e Engineer 0.960 0.660	ches, plinth ted layer by -in-charge	0.05 0.05 0.05	Rs 74- undations e nd watering 4.801 45.606 13.497 15.147	424.50 tc. in layers
6	Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5 200mm DI k9 pipes 160mm PVC	n depth, coom as per d 1 1	(excluding resolidating eirection of sit	ock) in trenach deposi e Engineer 0.960 0.660	ches, plinth ted layer by -in-charge	1.67 / metre , sides of fo ramming a 0.05 0.05	Rs 74- undations e nd watering 4.801 45.606 13.497 15.147	tc. in layers, lead up to
6	Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5 200mm DI k9 pipes 160mm PVC	n depth, coom as per d 1 1	(excluding resolidating eirection of sit	ock) in tren ach deposi e Engineer 0.960 0.660 0.660	ches, plinth ted layer by -in-charge To	1.67 / metre 1.68 / metre 1.69 / metre 1.60 / metre 1.	Rs 74- undations e nd watering 4.801 45.606 13.497 15.147 79.051 cur 0.000 cum	tc. in layers , lead up to
6	Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5 200mm DI k9 pipes 160mm PVC	n depth, coom as per d 1 1	(excluding resolidating eirection of sit	ock) in tren ach deposi e Engineer 0.960 0.660 0.660	ches, plinth ted layer by -in-charge To	1.67 / metre 1.68 / metre 1.69 / metre 1.60 / metre 1.	Rs 74- undations e nd watering 4.801 45.606 13.497 15.147 79.051 cur	tc. in layers , lead up to
6	Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5 200mm DI k9 pipes 160mm PVC	n depth, coom as per d 1 1	(excluding resolidating excluding of site 100.000 1382.000 409.000 459.000	ock) in trenach deposi e Engineer 0.960 0.660 0.660	ches, plinth ted layer by -in-charge To	1.67 / metre 1.68 / metre 1.69 / metre 1.69 / metre 1.60 / metre 1.	Rs 74- undations e nd watering 4.801 45.606 13.497 15.147 79.051 cur 0.000 cum 79.051 cur	tc. in layers , lead up to
7	Filling with contractor's not exceeding 20 cm in 50 m and lift up to 1.5 200mm DI k9 pipes 160mm PVC	n depth, coom as per d 1 1 1 1 th two rows 5cm to 24co	(excluding resolidating excluding resolidating excluding resolution of sit 100.000 1382.000 409.000 459.000	ock) in trenach deposi e Engineer 0.960 0.660 0.660 0.660	the @ Rs 30 ches, plinth ted layer by in-charge To otal Deduct Net To cum @ Rs 42 ch 15cm to 2 ls.	1.67 / metre , sides of for amming a 0.05 0.05 0.05 tal Quantity ed Quantity tal Quantity 32.37 / cum	Rs 74- undations e nd watering 4.801 45.606 13.497 15.147 79.051 cur 79.051 cur Rs 34	tc. in layers, lead up to
	Filling with contractor's not exceeding 20 cm-ii 50 m and lift up to 1.5 200mm DI k9 pipes 160mm PVC 140mm PVC 110mm PVC 110mm PVC 110mm PVC 100.8.2 Fencing 1.50m high will casuarina pole (girth 150m).	n depth, coom as per d 1 1 1 1 th two rows 5cm to 24co	(excluding resolidating excluding resolidating excluding resolution of sit 100.000 1382.000 409.000 459.000	ock) in trenach deposi e Engineer 0.960 0.660 0.660 0.660	the @ Rs 30 ches, plinth ted layer by in-charge To otal Deduct Net To cum @ Rs 42 ch 15cm to 2 ls.	1.67 / metre , sides of for amming a 0.05 0.05 0.05 tal Quantity ed Quantity tal Quantity 32.37 / cum	Rs 74- undations e nd watering 4.801 45.606 13.497 15.147 79.051 cur 79.051 cur Rs 34	tc. in layers, lead up to

				Т	otal Deduc	ed Quantity	0.000 metro	9
					Net To	tal Quantity	2000.000 n	netre
			Say 2	2000.000 me	etre @ Rs 7	4.56 / metre	Rs 149	120.00
8	100.12.11 Conveying and fixing Gexcluding cost of pipes 150 mm dia nominal ore Observed Data derived f	and fittin	igs - Exterr	nal work.	ngs includi	ng trenching	g and refilli	ng etc. bu
		1	154.000		To	otal Quantity	154.000 154.000 m	etre
				Т		ted Quantity		
			160	168		otal Quantity		
			Say '	154.000 met				729.16
	"Conveying and fixing of excluding cost of pipes 125 mm dia nominal bore Observed Data derived f	and fittin	gs - Extern	al work.	ngs includ	ng trenchin	g and refilli	ng etc. bu
		1	46.000	in BLEST	D.C.		46.000	
		Van	ala Wat	er Auth	To	tal Quantity	46.000 me	tre
		ACI	ara war		iority	ed Quantity		======================================
			2		Net To	otal Quantity	46.000 met	re
			Say	46.000 met	re @ Rs 18	0.30 / metre	Rs 82	93.80
10	100.12.9 Conveying and fixing G		complete w	vith G.I. fitti	ngs includi	ng trenchin	g and refilli	na etc. hu
	excluding cost of pipes 100 mm dia nominal bore Observed Data derived f	e						ng etc. bu
	100 mm dia nominal bore	е					51.000	ng etc. bu
	100 mm dia nominal bore	e rom item r	no.18.12 of I		Tc	otal Quantity		
	100 mm dia nominal bore	e rom item r	no.18.12 of I	DAR		otal Quantity	51.000 me	tre
	100 mm dia nominal bore	e rom item r	no.18.12 of I	DAR	otal Deduc	<u>-</u>	51.000 me	tre e
	100 mm dia nominal bore	e rom item r	51.000	DAR	otal Deduc	ted Quantity	51.000 metro 0.000 metro 51.000 met	tre e
11	100 mm dia nominal bore	e rom item r	51.000 Say	DAR T 51.000 met	otal Deduc Net To re @ Rs 16	ted Quantity otal Quantity 0.72 / metre	51.000 metro 0.000 metro 51.000 met Rs 81	tre e re 96.72

					To	tal Quantity	1710.000 i	metre
				Т			0.000 metro	
							1710.000 n	
			Say 17	710.000 met				9043.10
12	100.14.3 Conveying and layin excluding cost of pip 200 mm dia Ductile Iro Data derived from 18.7	es and spe on Class K-9	ecials : Pipes	ast (Spun)	/ Ductile In	on Pipes c	onforming t	to IS: 832
		1	100.000				100.000	
			102		To	tal Quantity	100.000 m	etre
			160	T /68			0.000 metro	e
			1.0	M So			100.000 me	
		1	Sav	100.000 me	1			663.00
13	18.70.3 Providing push - on-joi joints and including the				-3 -5.5 /	uctile Iron P	ipes includir	ng testing c
		20					20.000	
					То	tal Quantity	20.000 joir	nt
		Ker	ala Wat	er Auth	otal Deduct	ed Quantity	0.000 joint	
	-		D)		Net To	tal Quantity	20.000 join	t
				Say 20.000 j	oint @ Rs 2	14.34 / joint	Rs 42	286.80
14	18.71.3 Providing and laying I 1536):200 mm dia C.I	Double Fla	ged (screw				Cast Iron, C	
14	Providing and laying [ged (screw) Centrifuga	lly (Spun) (Cast Iron, C	lass B (IS
14	Providing and laying [Double Fla	ged (screw	ed / welded) Centrifuga	Ily (Spun) (2.000 d.000 meti	lass B (IS
14	Providing and laying [Double Fla	ged (screw	ed / welded	Centrifuga To	Ily (Spun) C tal Quantity ed Quantity	4.000 4.000 metro 0.000 metro	lass B (IS re e
14	Providing and laying [Double Fla	iged (screw	ed / welded	Centrifuga To Total Deduct	tal Quantity ed Quantity	4.000 4.000 metro 0.000 metro 4.000 metro	lass B (IS re e
14	Providing and laying [Double Fla	iged (screw	ed / welded	Centrifuga To Total Deduct	tal Quantity ed Quantity	4.000 4.000 metro 0.000 metro 4.000 metro	lass B (IS re e
14	Providing and laying [Double Fla	iged (screw anged Pipe Say	ed / welded	To Total Deduct Net To	tal Quantity ed Quantity	4.000 4.000 metro 0.000 metro 4.000 metro	lass B (IS
	Providing and laying I 1536):200 mm dia C.I od159815/2020_2021	Double Fla	iged (screw anged Pipe Say	ed / welded	To Total Deduct Net To	tal Quantity ed Quantity	4.000 4.000 metro 0.000 metro 4.000 metro	lass B (IS
	Providing and laying I 1536):200 mm dia C.I od159815/2020_2021	Double Fla	iged (screw anged Pipe Say	ed / welded	To Total Deduct Net Total © Rs 5630	tal Quantity ed Quantity	4.000 metro 4.000 metro Rs 22	lass B (IS
	Providing and laying I 1536):200 mm dia C.I od159815/2020_2021	Double Fla	iged (screw anged Pipe Say	ed / welded	To Total Deduct Net Total @ Rs 5630	tal Quantity ed Quantity tal Quantity 0.58 / metre	4.000 metro 4.000 metro 4.000 metro 4.000 metro Rs 22	lass B (IS

			Say 4.000 E	Each Cut @	Rs 295.85	5 / Each Cut	Rs 11	83.40		
16	100.35.3 Testing 200mm DI/CI p 200 mm dia Observed Data derived				uired test p	ressure				
		1	100.000				100.000			
			1		To	tal Quantity	100.000 m	etre		
				Т	otal Deduct	ed Quantity	0.000 metro	e		
	Net Total Quantity 100.000 metre									
			Say 1	00.000 me		0.99 / metre		99.00		
17	100.9.11 Laying UPVC pipes of position aligning the p cement and testing the specials).160 mm nom	ipe line to to to pipe line w	the lines and with water to	levels and	d jointing th	ie pipes and	d specials v	vith solve		
		1	1382.000	NIV.	1-21		1382.000			
		1/51	1002.000		To	tal Quantity		metre		
		快性				ed Quantity				
			The Bridge	2018		tal Quantity				
		Kera	ala Sayata	r Auth						
			Say 130	2.000 men	e @ Rs 13	7.03 / 1116116	K5 108	375.46		
18	100.9.10 Laying UPVC pipes of position aligning the p cement and testing the specials). 140 mm nominal outer	class 2 to c lipe line to e pipe line v	lass 6 and sp	pecials, low levels and	ering to the	trenches a	lready made d specials v	e, placing vith solve		
18	Laying UPVC pipes of position aligning the p cement and testing the specials).	class 2 to c lipe line to e pipe line v	lass 6 and sp	pecials, low levels and	ering to the	trenches a	lready made d specials v	e, placing		
18	Laying UPVC pipes of position aligning the p cement and testing the specials).	class 2 to coipe line to the pipe line vidia pipes.	lass 6 and sp the lines and with water to	pecials, low levels and	ering to the d jointing the ed test pres	trenches a	lready made d specials v ding cost o 409.000	e, placing vith solve f pipes a		
18	Laying UPVC pipes of position aligning the p cement and testing the specials).	class 2 to coipe line to the pipe line vidia pipes.	lass 6 and sp the lines and with water to	pecials, low levels and the require	ering to the d jointing the ed test pres	trenches a ne pipes and ssure (exclu	lready made d specials v ding cost o 409.000 409.000 m	e, placing vith solve f pipes a etre		
18	Laying UPVC pipes of position aligning the p cement and testing the specials).	class 2 to coipe line to the pipe line vidia pipes.	lass 6 and sp the lines and with water to	pecials, low levels and the require	rering to the dijointing the ditest presented test presented to the distribution of th	trenches and source (exclusive tall Quantity ed Quantity	d specials valued of the specials valued of the specials valued of the specials valued of the special of the sp	e, placing vith solve f pipes a etre		
18	Laying UPVC pipes of position aligning the p cement and testing the specials).	class 2 to coipe line to the pipe line vidia pipes.	lass 6 and sp the lines and with water to 409.000	pecials, low levels and the require	rering to the dijointing the ditest pressoned To otal Deduct	trenches and trenc	d specials valued of specials valued of the specials valued of the specials valued of the special spec	e, placing vith solve f pipes an etre		
18	Laying UPVC pipes of position aligning the p cement and testing the specials).	class 2 to copie line to the pipe line t	lass 6 and spethe lines and with water to 409.000 Say 40 lass 6 and spethe lines and	pecials, low levels and the require 19.000 metro pecials, low levels and	rering to the dijointing the ditest pressured test pressured to the dijointing th	trenches and source (exclusive description) tall Quantity and Quantity and Quantity are described as trenches and the pipes are pipes and the pipes and the pipes are	lready made d specials viding cost of 409.000 metro 409.00	e, placing vith solve f pipes a etre etre etre e, placing vith solve		

					To	tal Quantity	459.000 m	etre
				Т	otal Deduct	ed Quantity	0.000 metr	е
					Net To	tal Quantity	459.000 m	etre
			Say	459.000 me	etre @ Rs 80	6.68 / metre	Rs 39	786.12
20	100.31.2.5 Conveying and fixing C etc. excluding the cost of 200 mm diameter. Class Data derived from item	of valve (the s II"	e tail pieces				, nuts, rubbe	er insertior
		2					2.000	
					To	tal Quantity	2.000 Nos	
			160	1 / G		ed Quantity		
			1.0	M 6.00		tal Quantity		
		1		Say 2.000 N	A	,		718.90
	80 mm diameter. Class Observed Data derived		no.18.31.of [er Auth	otal Deduct	tal Quantity ed Quantity tal Quantity	0.000 Nos	
				Say 6.000 I		88.98 / Nos		33.88
22	100.31.2.2 Conveying and fixing C etc. excluding the cost of 100 mm diameter. Class Data derived from item	of valve (the s II"	e tail pieces	.,	•		, nuts, rubbe	er insertion
		2					2.000	
					To	tal Quantity	2.000 Nos	
				Т	otal Deduct	ed Quantity	0.000 Nos	
					Net To	tal Quantity	2.000 Nos	
				Say 2.000 l	Nos @ Rs 7	69.14 / Nos	Rs 15	38.28
23	100.31.2.3 Conveying and fixing C etc. excluding the cost		•	.,	•		, nuts, rubbe	er insertior

	125 mm diameter. Class Data derived from item	no 18 31 2	/OLIDAR							
	Data derived from item	2	ZOI DAK				2.000			
					То	tal Quantity	2.000 met	re		
				Т	otal Deduct	ed Quantity	0.000 meti	·e		
					Net To	tal Quantity	2.000 meti	e		
		Say 2.000 metre @ Rs 850.55 / metre								
24	100.31.2.4 Conveying and fixing C etc. excluding the cost 150 mm diameter. Clas Data derived from item	of valve (the	e tail pieces	.,	• .		, nuts, rubb	er insert		
		2	-18W				2.000			
		1	43 4		То	tal Quantity	2.000 Nos	;		
		11	TO FR		otal Deduct	ed Quantity	0.000 Nos			
		11 15	LAS	SCAL D	Net To	tal Quantity	2.000 Nos			
25	100.32.1			Say 2.000 No	os @ Rs 10	29.59 / Nos	Rs 2	059.18		
25	100.32.1 Conveying and fixing C excluding the cost of ai 25 mm Single acting Ai Observed Data derived	ir valve(the t ir Valve I from item n	ting Air Valv	re of approve	os @ Rs 10	29.59 / Nos	Rs 2			
25	Conveying and fixing C excluding the cost of ai 25 mm Single acting Ai	ir valve(the t ir Valve	ting Air Valv	re of approve	ed quality w	29.59 / Nos ith bolts,nut perately):	Rs 2	sertions		
25	Conveying and fixing C excluding the cost of ai 25 mm Single acting Ai	ir valve(the t ir Valve I from item n	ting Air Valv	re of approve required will DAR	ed quality will be paid se	29.59 / Nos ith bolts,nut perately): tal Quantity	15.000 No	sertions		
25	Conveying and fixing C excluding the cost of ai 25 mm Single acting Ai	ir valve(the t ir Valve I from item n	ting Air Valv	re of approve required will DAR	ed quality will be paid se	29.59 / Nos ith bolts,nut perately): tal Quantity ed Quantity	15.000 15.000 Nos	sertions		
25	Conveying and fixing C excluding the cost of ai 25 mm Single acting Ai	ir valve(the t ir Valve I from item n	ting Air Valv tail pieces if	ve of approve required will DAR	ed quality work to be paid se	29.59 / Nos ith bolts,nut perately): tal Quantity ed Quantity tal Quantity	15.000 15.000 No 0.000 No 15.000 No	esertions DS		
	Conveying and fixing C excluding the cost of ai 25 mm Single acting Ai Observed Data derived	ir valve(the t ir Valve I from item n	ting Air Valv tail pieces if	re of approve required will DAR	ed quality work to be paid se	29.59 / Nos ith bolts,nut perately): tal Quantity ed Quantity tal Quantity	15.000 15.000 No 0.000 No 15.000 No	sertions		
25	Conveying and fixing C excluding the cost of ai 25 mm Single acting Ai	ir valve(the to valve) I from item no serve to the total control of the	ting Air Valv tail pieces if no.18.59.of D ting Air Valv tail pieces if	re of approve required will DAR To Say 15.000 Notes of approve required will	os @ Rs 10 ed quality w I be paid se To total Deduct Net To Nos @ Rs 1 ed quality w I be paid se	29.59 / Nos ith bolts,nut perately): tal Quantity tal Quantity 24.47 / Nos ith bolts,nut perately):	15.000 15.000 Nos 15.000 No Rs 1	os 867.05		
	Conveying and fixing Conveying the cost of at 25 mm Single acting At Observed Data derived 100.32.2 Conveying and fixing Conveying and fixing Conveying the cost of at 25 mm Single acting At 25 mm Single act	ir valve(the to valve) I from item no serve to the total control of the	ting Air Valv tail pieces if no.18.59.of D ting Air Valv tail pieces if	re of approve required will DAR To Say 15.000 Notes of approve required will	os @ Rs 10 ed quality w I be paid se To total Deduct Net To Nos @ Rs 1 ed quality w I be paid se	29.59 / Nos ith bolts,nut perately): tal Quantity tal Quantity 24.47 / Nos ith bolts,nut perately):	15.000 15.000 Nos 15.000 No Rs 1	os 867.05		
	Conveying and fixing Conveying the cost of at 25 mm Single acting At Observed Data derived 100.32.2 Conveying and fixing Conveying and fixing Conveying the cost of at 25 mm Single acting At 25 mm Single act	ir valve(the to valve) I from item no serve to the to the total valve action valve (the total valve of the total valve of total valve of the total valve of total valve of the total valve of the total valve of the total val	ting Air Valv tail pieces if no.18.59.of D ting Air Valv tail pieces if	re of approve required will DAR To Say 15.000 Notes of approve required will	To Total Deduct Net To Nos @ Rs 1 ed quality w I be paid se	29.59 / Nos ith bolts,nut perately): tal Quantity tal Quantity 24.47 / Nos ith bolts,nut perately):	15.000 15.000 No 15.000 No 15.000 No Rs 1 s,rubber ins	esertions ess ss sertions sertions		
	Conveying and fixing Conveying the cost of at 25 mm Single acting At Observed Data derived 100.32.2 Conveying and fixing Conveying and fixing Conveying the cost of at 25 mm Single acting At 25 mm Single act	ir valve(the to valve) I from item no serve to the to the total valve action valve (the total valve of the total valve of total valve of the total valve of total valve of the total valve of the total valve of the total val	ting Air Valv tail pieces if no.18.59.of D ting Air Valv tail pieces if	re of approve required will DAR To Say 15.000 Note of approve required will derived from	To Total Deduct Net To Nos @ Rs 1 ed quality w I be paid se	29.59 / Nos ith bolts,nut perately): tal Quantity ed Quantity tal Quantity 24.47 / Nos ith bolts,nut perately): .59.of DAR	15.000 15.000 No 15.000 No 15.000 No Rs 1 s,rubber ins	esertions ess ss sertions sertions		
	Conveying and fixing Conveying the cost of at 25 mm Single acting At Observed Data derived 100.32.2 Conveying and fixing Conveying and fixing Conveying the cost of at 25 mm Single acting At 25 mm Single act	ir valve(the to valve) I from item no serve to the to the total valve action valve (the total valve of the total valve of total valve of the total valve of total valve of the total valve of the total valve of the total val	ting Air Valv tail pieces if no.18.59.of D ting Air Valv tail pieces if	re of approve required will DAR To Say 15.000 Note of approve required will derived from	To Total Deduct Net To Nos @ Rs 1 ed quality was a literal paid see to paid see to paid see to item no.18	29.59 / Nos ith bolts,nut perately): tal Quantity ed Quantity tal Quantity 24.47 / Nos ith bolts,nut perately): .59.of DAR	15.000 15.000 No 15.000 No 15.000 No 15.000 No 9.000 Nos 0.000 Nos	esertions as a sertions as a sertion as a		

27	2.8.1 Earth work in excavation	-		` •		•						
	trenches or drains (not ramming of bottoms, life excavated soil as direct	t up to 1.5	5 m, includin	g getting o	ut the exca	,						
	Valve Chamber 1.20m x 1.20m x1.1m	12	1.500	1.500	1.300		35.100					
					Тс	tal Quantity	35.100 cur	m				
				٦	Total Deduct	ed Quantity	0.000 cum					
					Net To	tal Quantity	35.100 cun	า				
	Say 35.100 cum @ Rs 231.15 / cum											
	Providing and laying in shuttering - All work up nominal size)	to plinth le	evel:1:2:4 (ce	ement : 2 co	parse sand	•	stone aggre	•				
	Valve Chamber PCC	12	1.500	1.500	0.100		2.700					
	Anchor blocks	200	0.600	0.600	0.600	5	43.200					
	Road reformation	1	2000.000	0.600	0.150		180.000					
			No. of Party	a suc		tal Quantity		ım				
		Ker	ala Wat	er Autl	iority	ed Quantity						
			Say	225.900 cu	1	otal Quantity 14.98 / cum		m 0223.98				
29	5.1.2 Providing and laying in centering, shuttering, fin sand :3 graded stone ag	ishing and	l reinforceme	nt - All worl			_					
	Valve Chamber Base and Cover slab	2*12	1.500	1.500	0.200		10.800					
	side wall	12	1.35*4	0.150	0.900		8.749					
					To	tal Quantity	19.549 cur	m				
				٦	Total Deduct	ed Quantity	0.000 cum					
					Net To	tal Quantity	19.549 cun	า				
			Sa	y 19.549 cı	ım @ Rs 86	33.74 / cum	Rs 168	3780.98				
30	5.9.2											

	Valve Chamber outside	12	1.5*4		1.300		93.601	
	inside	12	1.2*4		0.900		51.840	
	Anchor blocks	150	0.6*4		0.600		216.000	
					То	tal Quantity	361.441 sc	ηm
				Т	otal Deduct	ed Quantity	0.000 sqm	
					Net To	tal Quantity	361.441 sq	m
			Sa	ay 361.441 s	qm @ Rs 52	25.91 / sqm	Rs 190	085.44
31	5.22.6 Steel reinforcement fo binding all complete u							
	all rcc works	1	19.600	199		70.0	1372.000	
		-	E.L. 1		То	tal Quantity	1372.000 k	kilogram
		610	W. P.	25 At	otal Deduct	ed Quantity	0.000 kilogi	am
		18	41572		Net To	tal Quantity	1372.000 k	ilogram
		152	Say 1372.0	000 kilogram	@ Rs 78.62	2 / kilogram	Rs 107	866.64
32	100.98.117 Supply of DI K9 Pipe Co	onforming t	o IS 8329/2	000, 200mm	Dia.			
	For laying	Ker	100.000	ter Auth	ority		100.000	
	For future mace 2.5 %	1	100.000			0.03	2.500	
			K		То	tal Quantity	102.500 m	etre
				T	otal Deduct	ed Quantity	0.000 metre	Э
					Net To	tal Quantity	102.500 me	etre
			Say 10	02.500 metre	e @ Rs 2092	2.50 / metre	Rs 214	481.25
33	18.68.1 Providing and laying D. mm dia	I specials o	of class K -	12 suitable f	or push - or	n jointing as	per IS : 952	23 :Upt 60
	200mm Bends, 90 degree, 1 no-32 kg, 22.5 degree, 1no-23 kg, 11.25 degree, 1no-21 kg	1				0.76	0.760	
	-		1	"	То	tal Quantity	0.760 quin	tal
				Т	otal Deduct			
						,		
					Net To	tal Quantity	0.760 quint	al
	1no-21 kg			Т				

34	100.98.226 Supply of PVC Pipe, 8k	g/cm2, 160	Omm Dia.					
	For laying	1	688.000				688.000	
					То	tal Quantity	688.000 m	etre
				Т	otal Deduct	ed Quantity	0.000 metr	е
					Net To	tal Quantity	688.000 m	etre
			Say 6	688.000 meti	e @ Rs 745	5.05 / metre	Rs 512	2594.40
35	od159863/2020_2021 Supply of 160 mm PVC	specials 8	kg/cm2					
	Specials @ 3% of cost of pipe	1					1.000	
			JAM.	199	То	tal Quantity	1.000 L.S	
					otal Deduct	ed Quantity		
		12	1 1	Say 1.000 L.	W- 3\ 1			377.83
36	100.98.216 Supply of PVC Pipe, 6k	g/cm2, 160)mm Dia.			Į.		
	For laying	1	694.000	NO PER			694.000	
		Ker	ala Wat	er Auth	ority To	tal Quantity	694.000 m	etre
				Т	otal Deduct	ed Quantity	0.000 metr	е
			K		Net To	tal Quantity	694.000 m	etre
			Say 6	694.000 met	re @ Rs 465	5.75 / metre	Rs 323	230.50
37	od159899/2020_2021 Supply of 160 mm PVC	specials 6	kg/cm2					
	Specials @ 3% of cost of pipe	1					1.000	
					То	tal Quantity	1.000 L.S	
				Т	otal Deduct	ed Quantity	0.000 L.S	
					Net To	tal Quantity	1.000 L.S	
				Say 1.000 L	S @ Rs 96	96.91 / L.S	Rs 96	96.91
38	100.98.225 Supply of PVC Pipe, 8k	g/cm2, 14(Omm Dia.					ı
	For laying	1	409.000				409.000	
					То	tal Quantity	409.000 m	etre
				Т	otal Deduct	ed Quantity	0.000 metr	е

				N	let Total Quantity	409.000 m	etre		
			Say 409.0	000 metre @ F	Rs 585.45 / metre	Rs 239	9449.05		
39	od159866/2020_2021 Supply of 140 mm PVC	specials 8	Bkg/cm2			_			
	Specials @ 3 % of cost of Pipe	1				1.000			
					Total Quantity	1.000 L.S			
				Total D	educted Quantity	0.000 L.S			
	Net Total Quantity 1.000 L.S								
	Say 1.000 L.S @ Rs 7183.47 / L.S Rs 7183.47								
40	100.98.224 Supply of PVC Pipe, 8kg	g/cm2, 11	0mm Dia.						
	For laying	1	459.000	8/		459.000			
		6	W. A	X	Total Quantity	459.000 m	etre		
		18	4 1 1 1 1 1 1 1	Total D	educted Quantity	0.000 metr	е		
		(6).	Walk	N	let Total Quantity	459.000 m	etre		
	**		Say 459.0	000 metre @ F	Rs 346.00 / metre	Rs 158	3814.00		
41	od159877/2020_2021 Supply of 110 mm PVC	specials {	3.kg/cm2√ater	Authorit	y				
	Specials @ 3% of pipe	1	RI		R	1.000			
					Total Quantity	1.000 L.S			
				Total D	educted Quantity	0.000 L.S			
				N	let Total Quantity	1.000 L.S			
			Say	1.000 L.S @	Rs 4764.42 / L.S	Rs 47	764.42		
42	od125164/2020_2021 Supply of 150mm GI (M) pipes							
		1	154.000			154.000			
					Total Quantity	154.000 m	etre		
				Total D	educted Quantity	0.000 metr	e		
				N	let Total Quantity	154.000 m	etre		
			Say 154.00	00 metre @ Rs	3 1425.95 / metre	Rs 219	9596.30		
43	od160052/2020_2021 Supplying 150 mm G.I(N								

			1				1	
	Specials @ 5% of cost of pipe	1					1.000	
					То	tal Quantity	1.000 L.S	
				Т	otal Deduct	ed Quantity	0.000 L.S	
					Net To	tal Quantity	1.000 L.S	
			Ç	Say 1.000 L.	S @ Rs 109	79.82 / L.S	Rs 109	979.82
44	od125165/2020_2021 Procuring and supply of	f 125mm GI	(M) pipes					
		1	46.000				46.000	
					То	tal Quantity	46.000 me	tre
			C	т <i>П</i> е	otal Deduct	ed Quantity	0.000 metre	9
			- 1/W		Net To	tal Quantity	46.000 met	re
			Say 4	16.000 metre	@ Rs 1281	.80 / metre	Rs 589	962.80
45	od160070/2020_2021 Supplying 125 mm G.I(M) specials	A.C	DA	4			
	Specials @ 5 % of cost of pipe						1.000	
			no literatura	un of Par	То	tal Quantity	1.000 L.S	
		Kera	ala Wat	er Auth	otal Deduct	ed Quantity	0.000 L.S	
					Net To	tal Quantity	1.000 L.S	
		P = 1	K	Say 1.000 L	S @ Rs 29	949.42 / L.S	Rs 29	49.42
46	od125166/2020_2021 Supply of 100 mm GI (M) pipes							
		1	51.000				51.000	
					То	tal Quantity	51.000 me	tre
				Т	otal Deduct	ed Quantity	0.000 metre	Э
					Net To	tal Quantity	51.000 met	re
			Say	51.000 met	e @ Rs 939	9.57 / metre	Rs 479	918.07
47	od160073/2020_2021 Supplying 100 mm G.I(M) specials						
47		M) specials 1					1.000	
47	Supplying 100 mm G.I(Specials @ 5% of cost	· ·			To	tal Quantity		
47	Supplying 100 mm G.I(Specials @ 5% of cost	· ·		Т	To otal Deduct		1.000 L.S	

			S	ay 1.000 L	S @ Rs 23	396.84 / L.S	Rs 23	396.84		
48	100.98.440 Supply of CI Air Valve,	Conforming	to IS 14848 -	2000 Sin	ale Orifice	Small Orifice	e Type S1	Size 25mm		
	Cuppiy of Civili valve,	15		2000, 0	9.0 0100,		15.000			
					To	tal Quantity				
				Т		ed Quantity				
						tal Quantity				
	Say 15.000 No @ Rs 966.75 / No Rs 14501.25									
49	100.98.441 Supply of CI Air Valve,	Conforming	to IS 14848 -	2000, Sin	gle Orifice,	Small Orifice	e Type S1,	Size 40mm		
		9	Carl	30			9.000			
			11/1/1	n.	То	tal Quantity	9.000 No			
		1	43 88) Syl	otal Deduct	ed Quantity	0.000 No			
		11	YAR		Net To	tal Quantity	9.000 No			
		IA	MA	Say 9.000	No @ Rs 1	421.70 / No	Rs 12	795.30		
50	Supply of CI Double F	langed Sluic	e Valve Confo		0 4 40 40 0	000 01 1	M-1 - 20-	0 5114		
	Size 80mm.	langoa Giaio	e valve comc	orming to I	S 14846 - 2	000, Sluice	valve with	Cap PN 1.		
		Kera	PROPERTY OF	10172/J	ority	000, Sluice	6.000	Cap PN 1.		
			PROPERTY OF	r Auth	ority	tal Quantity	6.000 6.000 No	Cap PN 1.		
			PROPERTY OF	r Auth	ority To	tal Quantity	6.000 6.000 No 0.000 No	Cap PN 1.		
			ala Wate	r Auth	ority To otal Deduct Net To	tal Quantity ed Quantity tal Quantity	6.000 6.000 No 0.000 No 6.000 No			
			ala Wate	r Auth	ority To otal Deduct Net To	tal Quantity	6.000 6.000 No 0.000 No 6.000 No	786.30		
51		Ker	ala Wate	r Auth	ority To Total Deduct Net To No @ Rs 3	tal Quantity ed Quantity tal Quantity 131.05 / No	6.000 6.000 No 0.000 No 6.000 No Rs 18	786.30		
51	Size 80mm. 100.98.458 Supply of CI Double F	Ker	ala Wate	r Auth	ority To Total Deduct Net To No @ Rs 3	tal Quantity ed Quantity tal Quantity 131.05 / No	6.000 6.000 No 0.000 No 6.000 No Rs 18	786.30		
51	Size 80mm. 100.98.458 Supply of CI Double F	6 era	ala Wate	r Auth	To Total Deduct Net To No @ Rs 3	tal Quantity ed Quantity tal Quantity 131.05 / No	6.000 6.000 No 0.000 No 6.000 No Rs 18	786.30		
51	Size 80mm. 100.98.458 Supply of CI Double F	6 era	ala Wate	Say 6.000	To To To To	tal Quantity ed Quantity tal Quantity 131.05 / No	6.000 6.000 No 0.000 No 6.000 No Rs 18 Valve with 2.000 2.000 No	786.30		
51	Size 80mm. 100.98.458 Supply of CI Double F	6 era	ala Wate	Say 6.000	To Total Deduct Net To No @ Rs 3 S 14846 - 2 To Total Deduct	tal Quantity ed Quantity tal Quantity 131.05 / No 000, Sluice tal Quantity	6.000 No 0.000 No 6.000 No Rs 18 Valve with 2.000 2.000 No 0.000 No	786.30		
51	Size 80mm. 100.98.458 Supply of CI Double F	6 era	e Valve Confo	Say 6.000 prming to I	To Total Deduct Net To No @ Rs 3 S 14846 - 2 To Total Deduct Net To	tal Quantity ed Quantity tal Quantity 131.05 / No 000, Sluice tal Quantity	6.000 6.000 No 0.000 No 6.000 No Rs 18 Valve with 2.000 2.000 No 0.000 No	786.30		
51	Size 80mm. 100.98.458 Supply of CI Double F	langed Sluic	e Valve Confo	Say 6.000	To Total Deduct Net To No @ Rs 3 S 14846 - 2 To Total Deduct Net To No @ Rs 4	tal Quantity ed Quantity tal Quantity 131.05 / No 000, Sluice tal Quantity ed Quantity tal Quantity tal Quantity	6.000 No 0.000 No 6.000 No Rs 18 Valve with 2.000 2.000 No 0.000 No Rs 83	786.30 Cap PN 1.		

					T ₀	tal () i a atiti i	2 000 No			
						tal Quantity				
				l		ed Quantity				
						tal Quantity				
				Say 2.000	No @ Rs 5	249.35 / No	Rs 10	498.70		
53	100.98.460 Supply of CI Double Fla Size 150mm.	anged Sluid	ce Valve Con	forming to I	S 14846 - 2	000, Sluice	Valve with (Cap PN 1.		
		2					2.000			
					To	tal Quantity	2.000 No	1		
				Т		ed Quantity				
			m.	.60.		tal Quantity				
			1/903	Say 2 000				F./1 20		
	Say 2.000 No @ Rs 6770.65 / No Rs 13541.30									
54	100.98.461 Supply of CI Double Fla Size 200mm.	anged Sluid	ce Valve Con	forming to I	S 14846 - 2	000, Sluice	Valve with (Cap PN 1		
		2	LE		3 10	1	2.000			
		14/45		337) is	То	tal Quantity	2.000 No			
			MEGW	nel E	otal Deduct	ed Quantity	0.000 No			
		Ker	ala Wat	G. Servin						
					J	79 3.95 / No		587.90		
		No	L	В	D	CF	Quantity	Remark		
SI No	Description					//				
SI No	203-Supplying a	nd Laying	Clear Water	Gravity Ma	ain (Cos	st Index:38.	91 %)			
1	·	of required ming of bot as required ming, wate	width for pitoms, depth	ipes, cable up to 1.5 m ot exceedin	s, etc inclu n, including g 20 cm in	ding excav getting out t depth, inclu	ation for so the excavate ding consoli	ed soil, ai idatingea		
	203-Supplying a 100.1.1 Excavating trenches of dressing of sides, ramme then returning the soil of deposited layer by ramplead of 50 m: All kinds of soil	of required ming of bot as required ming, wate	width for pitoms, depth	ipes, cable up to 1.5 m ot exceedin	s, etc inclu n, including g 20 cm in	ding excav getting out t depth, inclu	ation for so the excavate ding consoli	ed soil, ai idatingea		
	203-Supplying a 100.1.1 Excavating trenches of dressing of sides, ramme then returning the soil of deposited layer by ramplead of 50 m: All kinds of soil (Ref. Item No. 2.10.1 of 250mm DI K9 pipe)	of required ming of bot as required ming, wate	width for pitoms, depthed, in layers noting, etc. and	ipes, cable up to 1.5 m ot exceedin d disposing	s, etc inclu n, including g 20 cm in of surplus 6	ding excav getting out t depth, inclu excavated s	ation for so the excavate ding consoli oil as directe	ed soil, aidatingeaded, within		
	203-Supplying a 100.1.1 Excavating trenches of dressing of sides, ramme then returning the soil of deposited layer by ramplead of 50 m: All kinds of soil (Ref. Item No. 2.10.1 of 250mm DI K9 pipe)	of required ming of bot as required ming, wate	width for pitoms, depthed, in layers noting, etc. and	ipes, cable up to 1.5 m ot exceeding disposing	s, etc inclu n, including g 20 cm in of surplus of	ding excav getting out t depth, inclu excavated s	ation for so the excavate ding consoli oil as directed 1648.513	ed soil, a idatingea ed, within		
	203-Supplying a 100.1.1 Excavating trenches of dressing of sides, ramme then returning the soil of deposited layer by ramplead of 50 m: All kinds of soil (Ref. Item No. 2.10.1 of 250mm DI K9 pipe)	of required ming of bot as required ming, wate	width for pitoms, depthed, in layers noting, etc. and	ipes, cable up to 1.5 m ot exceeding disposing	s, etc inclu n, including g 20 cm in of surplus 6 1.200 To Total Deduct	ding excav getting out t depth, inclu excavated s 0.45 tal Quantity	ation for so the excavate ding consoli oil as directed 1648.513 0.000 cum	ed soil, aidatingea ed, within		
	203-Supplying a 100.1.1 Excavating trenches of dressing of sides, ramme then returning the soil of deposited layer by ramplead of 50 m: All kinds of soil (Ref. Item No. 2.10.1 of 250mm DI K9 pipe)	of required ming of bot as required ming, wate	width for pitoms, depth d, in layers not ering, etc. and	ipes, cable up to 1.5 m ot exceedin d disposing 0.900	s, etc inclu n, including g 20 cm in of surplus e 1.200 To Total Deduct	ding excav getting out t depth, inclu excavated s 0.45 tal Quantity	ation for so the excavate ding consoli oil as directed 1648.513 0.000 cum	ed soil, ar idatingea ed, within		

	Excavating trenches of dressing of sides, ramme then returning the soil and deposited layer by ramplead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of	ning of both as required ming, wate	toms, depth , in layers n	up to 1.5 m ot exceedin	n, including o	getting out t depth, inclu	the excavated	ed soil, and idatingeach	
	250mm DI K9 pipe gap clossing, Trench size(1+0.8)/2, depth- 1.2m	1	3392.000	0.900	1.200	0.3	1099.008		
					То	tal Quantity	1099.008	cum	
			Ca	T	otal Deduct	ed Quantity	0.000 cum		
			-//1		Net To	tal Quantity	1099.008 c	um	
	Say 1099.008 cum @ Rs 571.82 / cum Rs 628434.75								
	dressing of sides, rammer then returning the soil and deposited layer by rammer lead of 50 m: Medium Rock (blasting New Data derived from	as required ming, wate prohibited)	, in layers no ring, etc. and	ot exceedin d disposing	g 20 cm in o	depth, inclu	ding consol	idatingeach	
	250mm DI K9 pipe gap clossing	1	3392.000	0.900	1.200	0.2	732.672		
					То	tal Quantity	732.672 cu	ım	
				Т	otal Deduct	ed Quantity	0.000 cum		
					Net To	tal Quantity	732.672 cu	m	
			Sa	y 732.672 c	um @ Rs 9	52.71 / cum	Rs 698	8023.94	
4	100.4.1 Excavating in hard roomeasurements and dinaments and dinaments and dinaments are discounted by the second damages to near (Ref. Item No. 1004 A dinaments).	isposing u to 1.50m) a by structur	nserviceabl and providing	e materials g protection	s within the by earth fil	e intial lead led cement	d of 50m arbags during	nd lift upto blasting to	
	250mm DI pipe for gap clossing	1	3392.000	0.900	1.200	0.05	183.168		
					То	tal Quantity	183.168 cu	ım	
				Т	otal Deduct	ed Quantity	0.000 cum		
					Net To	tal Quantity	183.168 cu	m	

			Say	183.168 cu	ım @ Rs 270	34.83 / cum	Rs 500	933.34		
5	100.59.1 Cutting the bituminous sides of proposed align the charges for hire an watching, ribbon fencir officers etc. complete, means and carrying ou	ment of the d conveya ng, caution before cari	pipe to be lance of tools boards, transpiring out the	aid without and plant, ffice divers	causing any cost of cons ion, and as	damage to sumables a per the dire	other utilitie nd charges ection of de	s, includ for light partmen		
	250mm DI pipe for gap clossing	1	3392.000				3392.000			
	Total Quantity 3392.000 metre									
			On	S) I	otal Deduct	ed Quantity	0.000 metre	9		
			1/10		Net To	tal Quantity	3392.000 m	netre		
		-	Say 3	392.000 me	etre @ Rs 31	.67 / metre	Rs 107	424.64		
	50 m and lift up to 1.5 m 250mm DI pipe for gap clossing	1	3392.000	1.080		0.05	183.168			
		Kera	ala Wat	er Auth	ority To	tal Quantity	183.168 cu	ım		
		Pi	RI	T	otal Deduct		0.000 cum 183.168 cu	m		
			Sa	y 183.168 c	um @ Rs 43	32.37 / cum	Rs 79	196.35		
7	100.8.2 Fencing 1.50m high wit casuarina pole (girth 15 NEW DATA (Prepared I 250mm DI pipe for gap clossing	5cm to 24cr	n) fixed at 1.	.5m interval	ls.	4cm) tied w	vith coir yarn	on vert		
			1		To	tal Quantity	3392.000 r	netre		
				T	otal Deduct					
						<u>-</u>	3392.000 m			
			Say 3	392.000 me	etre @ Rs 74	1.56 / metre	Rs 252	907.52		
8	100.14.4									

	Data derived from 18.72	2.18 in DAF	2						
	250mm DI pipe for gap clossing	1	3392.000				3392.000		
					То	tal Quantity	3392.000 r	netre	
				Т	otal Deduct	ed Quantity	0.000 metre	Э	
					Net To	tal Quantity	3392.000 n	netre	
			Say 33	92.000 met	e @ Rs 115	5.99 / metre	Rs 393	438.08	
9	100.37.8.1 Fabricating MS pipes of charges of MS plate, a deluxe multi surface parabricated with 8mm the Initial reach of CWGM	III fabricatio aint to give ick MS plat	on charges, an even sha tes.	charges of	painting the	steel work	with two or	more coa	
	from Sump at UWSS to TDPA	1	260.000	3. 7			260.000		
		1 A	H		1 17	7	260.000 m		
		104			ACTION AND ADDRESS OF THE PARTY	5	0.000 metre		
		Net Total Quantity 2							
				101 (0)					
40	400.27.0.2	Vor		60.000 metre	@ Rs 5786			4557.60	
10	100.37.8.3 Cutting 250 mm (ID) Ms all labour and hire charge	S pipes for	ala Wat	er Auth	e @ Rs 5786 Ority r specials b	6.76 / metre	Rs 150	4557.60 cost of gas	
10	Cutting 250 mm (ID) M	S pipes for	ala Wat	er Auth	e @ Rs 5786 Ority r specials b	6.76 / metre	Rs 150	4557.60 cost of gas	
10	Cutting 250 mm (ID) M	S pipes for ges of tools	ala Wat	er Auth	e @ Rs 5786 Ority or specials bes fabricated	5.76 / metre by gas cuttin d with 8mm	Rs 150	4557.60 cost of gas	
10	Cutting 250 mm (ID) M	S pipes for ges of tools	ala Wat	er Auth ds and othe ete: For pipe	e @ Rs 5786 Ority r specials bes fabricated	5.76 / metre by gas cuttin d with 8mm	g including thick MS place 21.000	4557.60 cost of gas	
10	Cutting 250 mm (ID) M	S pipes for ges of tools	ala Wat	er Auth ds and othe ete: For pipe	e @ Rs 5786 Ority r specials bes fabricated To otal Deduct	5.76 / metre y gas cuttin d with 8mm tal Quantity	g including thick MS place 21.000 No 0.000 No	4557.60 cost of gas	
10	Cutting 250 mm (ID) M	S pipes for ges of tools	ala Wat	er Auth ds and othe ete: For pipe	e @ Rs 5786 Ority r specials bes fabricated To Otal Deduct Net To	5.76 / metre y gas cuttin d with 8mm tal Quantity ed Quantity	g including thick MS pl. 21.000 No 0.000 No 21.000 No	4557.60 cost of gas	
10	Cutting 250 mm (ID) M	S pipes for ges of tools 21 AS pipes for tools and welding	ala Wat making ben s etc. compl or making be	er Authors and other ete: For pipe	Rs 5786 Ority or specials best fabricated To otal Deduct Net To O No @ Rs	5.76 / metre by gas cutting d with 8mm tal Quantity ed Quantity tal Quantity 267.63 / No	g including thick MS plane 21.000 No 21.000 No Rs 56	cost of gas ates.	
	Cutting 250 mm (ID) M3 all labour and hire char 100.37.8.4 Welding 250mm (ID) M3 including cost of gas a	S pipes for ges of tools 21 AS pipes for tools and welding	ala Wat making ben s etc. compl or making be	er Authors and other ete: For pipe	Rs 5786 Ority or specials best fabricated To otal Deduct Net To O No @ Rs	5.76 / metre by gas cutting d with 8mm tal Quantity ed Quantity tal Quantity 267.63 / No	g including thick MS plane 21.000 No 21.000 No Rs 56	cost of gas ates.	
	Cutting 250 mm (ID) M3 all labour and hire char 100.37.8.4 Welding 250mm (ID) M3 including cost of gas a	S pipes for ges of tools 21 MS pipes for gend welding hick MS place.	ala Wat making ben s etc. compl or making be	er Authors and other ete: For pipe	Rs 5786 Ority or specials best fabricated To total Deduct Net To O No @ Rs ther specials	5.76 / metre by gas cutting d with 8mm tal Quantity ed Quantity tal Quantity 267.63 / No	g including thick MS pl. 21.000 21.000 No 0.000 No 21.000 No Rs 56 ectric welding c. complete	cost of gas ates.	
	Cutting 250 mm (ID) M3 all labour and hire char 100.37.8.4 Welding 250mm (ID) M3 including cost of gas a	S pipes for ges of tools 21 MS pipes for gend welding hick MS place.	ala Wat making ben s etc. compl or making be	er Authords and other ete: For pipe	To otal Deduct Net To O No @ Rs her specials ire charges	5.76 / metre y gas cuttin d with 8mm tal Quantity ed Quantity tal Quantity 267.63 / No s by gas/ele of tools et	g including thick MS pl. 21.000 21.000 No 21.000 No Rs 56 ectric weldir c. complete	cost of gas ates.	
	Cutting 250 mm (ID) M3 all labour and hire char 100.37.8.4 Welding 250mm (ID) M3 including cost of gas a	S pipes for ges of tools 21 MS pipes for gend welding hick MS place.	ala Wat making ben s etc. compl or making be	er Authords and other ete: For pipe	To otal Deduct her specials ire charges	5.76 / metre by gas cuttind with 8mm tal Quantity ed Quantity tal Quantity 267.63 / No s by gas/ele of tools ete tal Quantity	g including thick MS pl. 21.000 21.000 No 21.000 No Rs 56 ectric weldir c. complete 21.000 21.000 No 0.000 No 0.000 No 0.000 No	cost of gas ates.	

12	100.37.8.5								
	Grinding cut and weld en hire charges of tools etc	J	` ,		ū		Ū	labour a	
		21					21.000		
			1		To	tal Quantity	21.000 No		
					Total Deduc	ted Quantity	0.000 No		
					Net To	otal Quantity	21.000 No		
				Say 21.0	000 No @ Rs	127.99 / No	Rs 26	87.79	
13	18.70.4 Providing push - on-joint joints and including the o			•	•	uctile Iron P	ipes includir	ng testing	
		680	//@	163			680.000		
			5.03		To	otal Quantity	680.000 jo	int	
		1			Total Deduc	ted Quantity	0.000 joint		
				R)//	Net To	otal Quantity	680.000 joi	nt	
			S	ay 680.00	0 joint @ Rs 2	60.66 / joint	Rs 177	248.80	
	1536):250 mm dia C.I D	ouble Fla	11 11	ter Au	thority		18.000		
		10			Tro	tal Quantity		tre	
					Total Deduc				
					Net To	otal Quantity	18.000 met	re	
			Say	18.000 me	tre @ Rs 681	0.48 / metre	Rs 122	2588.64	
15	od159884/2020_2021 Labour for cutting 250 m	ım dia D.I.	pipe with st	eel saw.					
		36					36.000		
					To	otal Quantity	36.000 Ea	ch Cut	
		Total Deducted Quantity							
					Total Deduc	ted Quantity	0.000 Each	Cut	
						ted Quantity			
			Say 36.00	0 Each Cu		otal Quantity	36.000 Ead		

	250mm DI pipe for gap clossing	1	3392.000				3392.000	
	Double flanged CI pipe	1	18.000				18.000	
					То	tal Quantity	3410.000 r	netre
				Т	otal Deduct	ed Quantity	0.000 metre)
			Sout	3410.000 me			3410.000 m	
17	od194941/2020_2021		Say	54 TO.000 THE	ile @ KS St	7.93 / IIIeue	NS 130	101.30
	Testing 250mm MS pip	eline with p	otable water	to the requ	ired test pre	ssure . 250	mm dia	
		1	260.000	60			260.000	
					То	tal Quantity	260.000 m	etre
		-	E.2 1		otal Deduct	ed Quantity	0.000 metre)
		tal Quantity	260.000 me	etre				
		10	Say	260.000 me	etre @ Rs 38	3.89 / metre	Rs 10 ²	111.40
	Data derived from item	no.18.31.5	20f DAR at	er Auth	ority	7	2.000	
					То	tal Quantity		
				T		tal Quantity	2.000 Nos	
				T	otal Deduct		2.000 Nos 0.000 Nos	
				T Say 2.000 N	otal Deduct	ed Quantity	2.000 Nos 0.000 Nos	36.98
19	100.31.2.4 Conveying and fixing C etc. excluding the cost of 150 mm diameter. Clas Data derived from item	of valve (th s II"	ulves (with ca	Say 2.000 N ap) by provic	Net To os @ Rs 19	ed Quantity tal Quantity 68.49 / Nos	2.000 Nos 0.000 Nos 2.000 Nos Rs 39	
19	Conveying and fixing C etc. excluding the cost of 150 mm diameter. Clas	of valve (th s II"	ulves (with ca	Say 2.000 N ap) by provic	Net To os @ Rs 19	ed Quantity tal Quantity 68.49 / Nos	2.000 Nos 0.000 Nos 2.000 Nos Rs 39	
19	Conveying and fixing C etc. excluding the cost of 150 mm diameter. Class Data derived from item	of valve (th s II" no.18.31.3	ulves (with ca	Say 2.000 N ap) by provic	Net To os @ Rs 19 ling complet vill be paid s	ed Quantity tal Quantity 68.49 / Nos	2.000 Nos 0.000 Nos 2.000 Nos Rs 39 nuts, rubbe	
19	Conveying and fixing C etc. excluding the cost of 150 mm diameter. Class Data derived from item	of valve (th s II" no.18.31.3	ulves (with ca	Say 2.000 N ap) by provic if required w	Net To os @ Rs 19 ling complet vill be paid s	ed Quantity tal Quantity 68.49 / Nos e with bolts, eparately):	2.000 Nos 0.000 Nos 2.000 Nos Rs 39 nuts, rubbe 3.000 3.000 Nos	
19	Conveying and fixing C etc. excluding the cost of 150 mm diameter. Class Data derived from item	of valve (th s II" no.18.31.3	ulves (with ca	Say 2.000 N ap) by provic if required w	Net To Net To OS @ Rs 19 Ing complet vill be paid s To	ed Quantity tal Quantity 68.49 / Nos e with bolts, eparately):	2.000 Nos 0.000 Nos 2.000 Nos Rs 39 nuts, rubbe 3.000 3.000 Nos 0.000 Nos	
19	Conveying and fixing C etc. excluding the cost of 150 mm diameter. Class Data derived from item	of valve (th s II" no.18.31.3	alves (with case tail pieces	Say 2.000 N ap) by provic if required w	Total Deduction Net Total Deduction Os @ Rs 19 Ing complet vill be paid s Total Deduction Net To	ed Quantity tal Quantity 68.49 / Nos e with bolts, eparately): tal Quantity ed Quantity tal Quantity	2.000 Nos 0.000 Nos 2.000 Nos Rs 39 nuts, rubbe 3.000 3.000 Nos 0.000 Nos 3.000 Nos	r insertio

	Conveying and fixing C excluding the cost of air 40 mm Single acting Air	valve(the	tail pieces if	required wi	ll be paid se	perately):	s,rubber ins	ertions etc	
		6					6.000		
			•		To	tal Quantity	6.000 Nos		
				T	otal Deduct	ed Quantity	0.000 Nos		
					Net To	tal Quantity	6.000 Nos		
				Say 6.000	Nos @ Rs 1	56.61 / Nos	Rs 93	39.66	
21	2.8.1 Earth work in excavati trenches or drains (not ramming of bottoms, li excavated soil as directions)	exceeding ft up to 1.5	g 1.5 m in w 5 m, includir	vidth or 10 s	sqm on plar ut the exca	ı), including	dressing o	f sides ar	
	Valve chambers	7	1.500	1.500	1.300		20.475		
		LL"	NA C		To	tal Quantity	20.475 cur	n	
		15			otal Deduct	ed Quantity	0.000 cum		
		194			Net To	tal Quantity	20.475 cum	1	
		1	S	Say 20.475 d	cum @ Rs 2	31.15 / cum	Rs 47	32.80	
22	4.1.3 Providing and laying in shuttering - All work up nominal size)				e/				
	PCC for chamber	7	1.500	1.500	0.100		1.575		
	Anchor Blocks	180	0.900	0.600	0.600		58.320		
					То	tal Quantity	59.895 cur	n	
				Т	otal Deduct	ad Ouantity			
		eu Quantity	0.000 cum						
				·			59.895 cum	1	
			Sa			tal Quantity	59.895 cum	099.23	
23	5.1.2 Providing and laying in centering, shuttering, fir sand :3 graded stone ag	ishing and	specified gra	ay 59.895 cu ade of reinfe ent - All work	Net To Im @ Rs 76 orced ceme	tal Quantity 14.98 / cum nt concrete	59.895 cum Rs 456	099.23	
23	Providing and laying in centering, shuttering, fir	ishing and	specified gra	ay 59.895 cu ade of reinfe ent - All work	Net To Im @ Rs 76 orced ceme	tal Quantity 14.98 / cum nt concrete	59.895 cum Rs 456	099.23	
23	Providing and laying in centering, shuttering, fir sand :3 graded stone as Valve chamber Base	nishing and	specified gra reinforceme o mm nomin	ay 59.895 cu ade of reinfo ent - All work al size	Net To nm @ Rs 76 orced ceme c up to plinth	tal Quantity 14.98 / cum nt concrete	59.895 cum Rs 456 , excluding 3 (1 cement	099.23	

				Total	Quantity	11.404 cur	n					
				Total Deducted	Quantity	-0.280 cum						
				Net Total	Quantity	11.124 cum	l					
			Say 11.	124 cum @ Rs 8633.	74 / cum	Rs 960	041.72					
24	5.9.2 Centering and shuttering attached pilasters, butter	eresses, p	olinth and string co	urses etc.	:Walls (ar		s) includ					
	outside of chamber	7	1.5*4	1.300		54.601						
	inside	7	1.2*4	0.900		30.241						
	anchor blocks	150	0.9+0.6+0. 9+0.6	0.600		270.000						
			PASSIP	Total	Quantity	354.842 sc	ım					
		-	£ 2 10 10 10 10 10 10 10 10 10 10 10 10 10	Total Deducted	Quantity	0.000 sqm						
		61	AN PAGE	Net Total	Quantity	354.842 sq	m					
			Say 354	l.842 sqm @ Rs 525.9	91 / sqm	Rs 186	614.96					
		P	RI	Total Total Deducted	Quantity Quantity	778.681 kil 0.000 kilogi						
				Net Total	Quantity	778.681 kild	ogram					
			Say 778.681 ki	logram @ Rs 78.62 / I	kilogram	Rs 612	219.90					
26	100.98.118 Supply of DI K9 Pipe Co	onforming	to IS 8329/2000, 2	50mm Dia.								
	For laying	1	3392.000			3392.000						
	Add 2.5 % for future maintenance	1	85.000			85.000						
				Total	Quantity	3477.000 r	netre					
				Total Deducted Quantity 0.000 metre								
				Total Deducted	Qualitity)					
						3477.000 m						
			Say 3477.000		Quantity	3477.000 m Rs 974 9	etre					

							1	
	250mm Bend, 90 degree 48 kg/Each	4				0.48	1.920	
	250mm Bend, 45 degree 36 kg/Each	8				0.36	2.880	
	250mm Bend, 22.5 degree 32 kg/Each	31				0.32	9.920	
	250mm Bend,11.25 degree 48 kg/Each	16				0.3	4.800	
	Tee 250*150*250, 45 kg/Each	1				0.45	0.450	
	Tee 250*80*250, 37 kg/Each	6	(Park	8		0.37	2.220	
			A	M	To	tal Quantity	22.190 qu	intal
			£3 W	184	otal Deduct	ed Quantity	0.000 quin	tal
		6	W PA	5 1	Net To	tal Quantity	22.190 qui	ntal
		B	Say 22.19	0 quintal @	® Rs 21384.	.36 / quintal	Rs 474	4518.95
28	100.98.441 Supply of CI Air Valve, C	Conformin 6	ig to IS 14848 -	· 2000, Sin	gle Orifice,	Small Orifice	e Type S1,	Size 40mm
			rala Wate	r Auth	ority To	tal Ouantitu		
		-	tara wate		otal Deduct			
				1	otal Deduct	eu Quantity	10.000 NO	
			KI		Net To	tal Quantity	6 000 No	
			KJ	Say 6.000	Net To	tal Quantity 421.70 / No		530.20
29	100.98.460 Supply of CI Double Flan Size 150mm.	nged Slui			No @ Rs 14	421.70 / No	Rs 85	
29	Supply of CI Double Fla	nged Slui			No @ Rs 14	421.70 / No	Rs 85	
29	Supply of CI Double Fla				No @ Rs 14 S 14846 - 2	421.70 / No	Valve with	
29	Supply of CI Double Fla			orming to I	No @ Rs 14 S 14846 - 2	421.70 / No	Rs 85 Valve with 3.000 3.000 No	
29	Supply of CI Double Fla			orming to I	No @ Rs 14 S 14846 - 2 To Total Deduct	421.70 / No	Rs 85 Valve with 3.000 3.000 No 0.000 No	
29	Supply of CI Double Fla		ice Valve Confe	orming to I	No @ Rs 14 S 14846 - 2 To Total Deduct	421.70 / No 000, Sluice tal Quantity ed Quantity tal Quantity	Rs 85 Valve with 3.000 3.000 No 0.000 No 3.000 No	
29	Supply of CI Double Fla	3	ice Valve Conf	orming to I	No @ Rs 14 S 14846 - 2 To Total Deduct Net To No @ Rs 6	421.70 / No 000, Sluice tal Quantity ed Quantity tal Quantity 770.65 / No	Rs 85 Valve with 3.000 3.000 No 0.000 No 3.000 No Rs 20	Cap PN 1.6
	Supply of CI Double Flan Size 150mm. 100.98.462 Supply of CI Double Flan	3	ice Valve Conf	orming to I	No @ Rs 14 S 14846 - 2 To Total Deduct Net To No @ Rs 6	421.70 / No 000, Sluice tal Quantity ed Quantity tal Quantity 770.65 / No	Rs 85 Valve with 3.000 3.000 No 0.000 No 3.000 No Rs 20	Cap PN 1.6

				T	Total Dec	lucted Quantity	0.000 No	
					Net	Total Quantity	2.000 No	
				Say 2.000 l	No @ Rs	18345.20 / No	Rs 36	690.40
SI No	Description	No	L	В	D	CF	Quantity	Remark
	309-R	oad Resto	oration Worl	ks (Cos	t Index:	38.91 %)		
1	od125152/2020_2021 Road restoration charges	s for 20mr	n open grade	ed chipping	carpet s	urface cutting		
	PWD road from KWA office to Bypass road	1	450.000	0.850			382.500	
	Municipal road at vengaloor	1	150.000	0.750			112.500	
	for distribution	1	250.000	0.750			187.500	
			C. 1		-	Total Quantity	682.500 sc	mp
			37 5	S. XI	Total Dec	lucted Quantity	0.000 sqm	
		(k.,	17/1/2	RV65	Net	Total Quantity	682.500 sq	m
		185	Sav	682.500 so	ım @ Rs	2759.44 / sqm	Rs 188	3317.80
2	od125153/2020_2021 Road restoration charges	s for PWD	BM BC road	l surface cu	itting			
	Bypass road and TM road	Ker	1050.0001	ero.800th	ority		840.000	
	Oonnukal road	1	200.000	0.950			190.000	
						Total Quantity	1030.000 s	sqm
				Т	Total Dec	lucted Quantity	0.000 sqm	
					Net	Total Quantity	1030.000 s	qm
			Say 1	1030.000 sq	ım @ Rs	3633.49 / sqm	Rs 374	2494.70
3	od125154/2020_2021 Road restoration - Berm	cutting						
	By-Pass road	1	1750.000	0.500			875.000	
	Distribution	1	5500.000	0.500			2750.000	
						Total Quantity	3625.000 s	sqm
				Т	Total Dec	lucted Quantity	0.000 sqm	
					Net	Total Quantity	3625.000 s	qm
			Say	3625.000 s		s 321.29 / sqm		4676.25
4	od125155/2020_2021 Road restoration charges	s for 80mr	n thick inter l	ockina tile r	oad surf	ace cutting		

Distribution lines	1	250.000	0.750			187.500	
Total Quantity						187.500 sqm	
Total Deducted Quantity						0.000 sqm	
Net Total Quantity						187.500 sqm	
Say 187.500 sqm @ Rs 3323.34 / sqm						Rs 623126.25	
od125156/2020_2021 Road restoration charge	es for conc	rete road	surface				
Distribution networks	1	300.000	0.750			225.000	
Total Quantity						225.000 sqm	
Total Deducted Quantity						0.000 sqm	
Net Total Quantity						225.000 sqm	
Say 225.000 sqm @ Rs 4886.61 / sqm						Rs 1099487.25	
Total						32130	553.64
Centage @						0.	0%
Centage Amount						0.00	
Provision for GST payments (in %) @						12.0%	
Amount reserved for GST payments						3855666.44	
Kerala Water Authorit Total & Centage						35986220.07	
						377	9.93
GRAND TOTAL Rs						3599	00.000
					/		
				Rou	ınded Gran	d Total Rs	3,59,90,000
	od125156/2020_2021 Road restoration charge	od125156/2020_2021 Road restoration charges for conc Distribution networks 1	Say od125156/2020_2021 Road restoration charges for concrete road Distribution networks 1 300.000 Say	Say 187.500 sq od125156/2020_2021 Road restoration charges for concrete road Distribution networks 1 300.000 0.750 The say 225.000 sq Provision for Games Amount rese	Total Deduct Net To Say 187.500 sqm @ Rs 333 od125156/2020_2021 Road restoration charges for concrete road Distribution networks 1 300.000 0.750 To Total Deduct Net To Say 225.000 sqm @ Rs 486 Centa Provision for GST paymen Amount reserved for GS* Kerala Water Authority* Lumpsum f	Total Quantity Total Deducted Quantity Net Total Quantity Say 187.500 sqm @ Rs 3323.34 / sqm od125156/2020_2021 Road restoration charges for concrete road Distribution networks 1 300.000 0.750 Total Quantity Total Deducted Quantity Net Total Quantity Say 225.000 sqm @ Rs 4886.61 / sqm Total Centage @ Centage Amount Provision for GST payments (in %) @ Amount reserved for GST payments Kerala Water Authority Total & Centage Lumpsum for round off	Total Quantity 187.500 sq Total Deducted Quantity 187.500 sq Net Total Quantity 187.500 sq Say 187.500 sqm @ Rs 3323.34 / sqm Rs 623 Rs 623