Abstract Estimate

DEPOSIT WORK-RWSS to Udumbanchola - Shifting of water supply pipe lines in the stretch between Udumbanchola and Chemmannar of Udumbanchola -Chithirapuram Road due to road development work by KIIFB

(Dsor year: 2018)

1	100.1.1	
•	Excavating trenches of required width for pipes, cables, etc including dressing of sides, ramming of bottoms, depth up to 1.5 m, including getti	
	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca	th, including consolidatingea
	lead of 50 m :	ivaleu son as unecleu, within
	All kinds of soil	
	(Ref. Item No. 2.10.1 of DSR)	
	Net Total Quantity 209	96.163 cum
	Say 2096.163 cum @ Rs 579.85 / cum	Rs 1215460.12
2	100.1.5	
	Excavating trenches of required width for pipes, cables, etc including dressing of sides, ramming of bottoms, depth up to 1.5 m, including getti	
	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca	th, including consolidatingea
	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :"	th, including consolidatingea
	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca	th, including consolidatingea
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3	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR) Net Total Quantity 393 Say 393.033 cum @ Rs 842.10 / cum	th, including consolidatingea avated soil as directed, within 3.033 cum
3	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR) Net Total Quantity 393 Say 393.033 cum @ Rs 842.10 / cum 100.2.3	th, including consolidatingea avated soil as directed, withi 3.033 cum Rs 330973.09
3	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR) Net Total Quantity 393 Say 393.033 cum @ Rs 842.10 / cum	th, including consolidatingea avated soil as directed, withi 3.033 cum Rs 330973.09 g excavation for sockets, a
3	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR) Net Total Quantity 393 Say 393.033 cum @ Rs 842.10 / cum 100.2.3 "Excavating trenches of required width for pipes, cables, etc including	th, including consolidatingea avated soil as directed, within 3.033 cum Rs 330973.09 g excavation for sockets, a ing out the excavated soil, a
3	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR) Net Total Quantity 393 Say 393.033 cum @ Rs 842.10 / cum 100.2.3 "Excavating trenches of required width for pipes, cables, etc including dressing of sides, ramming of bottoms, depth up to 1.5 m, including getti then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca	th, including consolidatingea avated soil as directed, within 3.033 cum Rs 330973.09 g excavation for sockets, a ing out the excavated soil, a th, including consolidatingea
3	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR) Net Total Quantity 393 Say 393.033 cum @ Rs 842.10 / cum 100.2.3 "Excavating trenches of required width for pipes, cables, etc including dressing of sides, ramming of bottoms, depth up to 1.5 m, including getti then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :	th, including consolidatingea avated soil as directed, within 3.033 cum Rs 330973.09 g excavation for sockets, a ing out the excavated soil, a th, including consolidatingea
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3	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR) Net Total Quantity 393 Say 393.033 cum @ Rs 842.10 / cum 100.2.3 "Excavating trenches of required width for pipes, cables, etc including dressing of sides, ramming of bottoms, depth up to 1.5 m, including getti then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR	th, including consolidatingea avated soil as directed, within 3.033 cum Rs 330973.09 g excavation for sockets, a ing out the excavated soil, a th, including consolidatingea avated soil as directed, within
3	then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR) Net Total Quantity 393 Say 393.033 cum @ Rs 842.10 / cum 100.2.3 "Excavating trenches of required width for pipes, cables, etc including dressing of sides, ramming of bottoms, depth up to 1.5 m, including getti then returning the soil as required, in layers not exceeding 20 cm in dept deposited layer by ramming, watering, etc. and disposing of surplus exca lead of 50 m : Medium Rock (Requiring Blasting)	th, including consolidatingea avated soil as directed, within 3.033 cum Rs 330973.09 g excavation for sockets, a ing out the excavated soil, a th, including consolidatingea avated soil as directed, within

4	100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 c casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	m plastic caution tape in vertical
	Net Total Quantity	1400.000 metre
	Say 1400.000 metre @ Rs 28.82 / metre	Rs 40348.00
5	100.14.2 Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iro excluding cost of pipes and specials : 150 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.16 in DAR	on Pipes conforming to IS: 8329
	Net Total Quantity	1520.000 metre
	Say 1520.000 metre @ Rs 91.50 / metre	Rs 139080.00
6	100.14.3 Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iro excluding cost of pipes and specials : 200 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.17 in DAR	on Pipes conforming to IS: 8329
	Net Total Quantity	30.000 metre
	Say 30.000 metre @ Rs 127.45 / metre	Rs 3823.50
7	100.14.4Kerala Water AuthorityConveying and laying S&S Centrifugally Cast (Spun) / Ductile Ireexcluding cost of pipes and specials :250 mm dia Ductile Iron Class K-9 PipesData derived from 18.72.18 in DAR	on Pipes conforming to IS: 8329
	Net Total Quantity	30.000 metre
	Say 30.000 metre @ Rs 170.19 / metre	Rs 5105.70
8	18.68.1 Providing and laying D.I specials of class K - 12 suitable for push - or mm dia	n jointing as per IS : 9523 :Upt 600
	Net Total Quantity	5.411 quintal
	Say 5.411 quintal @ Rs 21003.05 / quintal	Rs 113647.50
9	18.69.1 Providing and laying D.I Specials of Class K - 12 suitable for mechan 600 mm dia	
	Net Total Quantity	4.000 quintal
	Say 4.000 quintal @ Rs 22071.60 / quintal	Rs 88286.40

10	18.70.2 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Du joints and including the cost of rubber gasket:150 mm dia pipes	uctile Iron Pipes including testing
	Net Total Quantity	274 000 joint
	Say 274.000 joint @ Rs 184.13 / joint	-
11	18.30.4 Providing flanged joints to double flanged C.I./ D.I pipes and specials diameter pipe	
	Net Total Quantity	8.000 Nos
	Say 8.000 Nos @ Rs 402.30 / Nos	Rs 3218.40
12	18.83.4 Labour for cutting C.I. pipe with steel saw.150 mm diameter C.I. pipe	
	Net Total Quantity	20.000 Each Cut
	Say 20.000 Each Cut @ Rs 337.12 / Each Cut	Rs 6742.40
13	100.35.2 Testing 150mm DI/CI pipeline with potable water to the required test pr 150 mm dia Observed Data derived from item no.1018 of PHED DATA	ressure
	Net Total Quantity	1490.000 metre
	Say 1490.000 metre @ Rs 32.88 / metre	Rs 48991.20
14	100.9.11 Laying UPVC pipes of class 2 to class 6 and specials, lowering to the position aligning the pipe line to the lines and levels and jointing th cement and testing the pipe line with water to the required test pres specials).160 mm nominal outer dia pipes.	e pipes and specials with solve
	Net Total Quantity	650.000 metre
	Say 650.000 metre @ Rs 211.66 / metre	Rs 137579.00
15	100.9.9 Laying UPVC pipes of class 2 to class 6 and specials, lowering to the position aligning the pipe line to the lines and levels and jointing th cement and testing the pipe line with water to the required test pres specials). 110 mm nominal outer dia pipes.	e pipes and specials with solve
	Net Total Quantity	1830.000 metre
	Say 1830.000 metre @ Rs 133.89 / metre	
16	4.1.3 Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : nominal size)	excluding the cost of centering a

	Net Total Quantity	4 320 cum
	·	
	Say 4.320 cum @ Rs 8340.93 / cum	RS 30032.02
17	4.3.1 Centering and shuttering including strutting, propping etc. and remo	aval of form work for: Foundation
	footings, bases for columns	
	Net Total Quantity	17 280 sam
	Say 17.280 sqm @ Rs 350.00 / sqm	•
18	100.32.1	
10	Conveying and fixing C I Single acting Air Valve of approved quality w	ith bolts.nuts.rubber insertions et
	excluding the cost of air valve(the tail pieces if required will be paid se	
	25 mm Single acting Air Valve	,
	Observed Data derived from item no.18.59.of DAR	
	Net Total Quantity	3.000 Nos
	Say 3.000 Nos @ Rs 146.63 / Nos	Rs 439.89
	Conveying and fixing C.I. sluice valves (with cap) by providing complet etc. excluding the cost of valve (the tail pieces if required will be paid s 150 mm diameter. Class I" Data derived from item no.18.31.3.1 of DAR	
	Net Total Quantity	1.000 Nos
	Net Total Quantity Kersay 1.000 Nos @ Rs 1253.32 / Nos	
	Kersay 1.000 Nos @ Rs 1253.32 / Nos	Rs 1253.32
1	Kersay 1.000 Nos @ Rs 1253.32 / Nos	
1	KerSay 1.000 Nos @ Rs 1253.32 / Nos 2Supply and Laying distribution main- cost of materials (C 100.98.116 (C	Rs 1253.32 ost Index:41.53 %)
1	KerSay 1.000 Nos @ Rs 1253.32 / Nos 2Supply and Laying distribution main- cost of materials (C 100.98.116 (C Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia. Net Total Quantity	Rs 1253.32 ost Index:41.53 %) 1519.800 metre
1	KerSay 1.000 Nos @ Rs 1253.32 / Nos 2Supply and Laying distribution main- cost of materials (C 100.98.116 Image: Conforming to IS 8329/2000, 150mm Dia.	Rs 1253.32 ost Index:41.53 %) 1519.800 metre
	Ker Say 1.000 Nos @ Rs 1253.32 / Nos 2Supply and Laying distribution main- cost of materials (C 100.98.116 (C Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia. Net Total Quantity Net Total Quantity Say 1519.800 metre @ Rs 1673.35 / metre od299268/2021_2022	Rs 1253.32 ost Index:41.53 %) 1519.800 metre Rs 2543157.33
	Ker Say 1.000 Nos @ Rs 1253.32 / Nos 2Supply and Laying distribution main- cost of materials (C 100.98.116 (C Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia. Net Total Quantity Net Total Quantity Say 1519.800 metre @ Rs 1673.35 / metre od299268/2021_2022 Supply of PVC Pipe, 12.5kg/cm2, 160mm Dia.	Rs 1253.32 ost Index:41.53 %) 1519.800 metre Rs 2543157.33 650.000 metre
	Ker Say 1.000 Nos @ Rs 1253.32 / Nos 2Supply and Laying distribution main- cost of materials (C 100.98.116 (C Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia. Net Total Quantity Net Total Quantity Say 1519.800 metre @ Rs 1673.35 / metre od299268/2021_2022 >Supply of PVC Pipe, 12.5kg/cm2, 160mm Dia. Net Total Quantity	Rs 1253.32 ost Index:41.53 %) 1519.800 metre Rs 2543157.33 650.000 metre
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2	Ker Say 1.000 Nos @ Rs 1253.32 / Nos 2Supply and Laying distribution main- cost of materials (C 100.98.116 (C Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia. Net Total Quantity Net Total Quantity Say 1519.800 metre @ Rs 1673.35 / metre od299268/2021_2022 Supply of PVC Pipe, 12.5kg/cm2, 160mm Dia. Net Total Quantity Say 650.000 metre @ Rs 1689.98 / metre od309800/2021_2022	Rs 1253.32 ost Index:41.53 %) 1519.800 metre Rs 2543157.33 650.000 metre Rs 1098487.00
2	Ker Say 1.000 Nos @ Rs 1253.32 / Nos 2Supply and Laying distribution main- cost of materials (C 100.98.116 (C Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia. Net Total Quantity Net Total Quantity Say 1519.800 metre @ Rs 1673.35 / metre od299268/2021_2022 Supply of PVC Pipe, 12.5kg/cm2, 160mm Dia. Net Total Quantity Say 650.000 metre @ Rs 1689.98 / metre od309800/2021_2022 Specials for 160 mm PVC pipe-12.5Kg/cm2	Rs 1253.32 ost Index:41.53 %) 1519.800 metre Rs 2543157.33 650.000 metre Rs 1098487.00 1.000 L.S
2	KerSay 1.000 Nos @ Rs 1253.32 / Nos Supply and Laying distribution main- cost of materials (C 100.98.116 (C Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia. (C Net Total Quantity Net Total Quantity Say 1519.800 metre @ Rs 1673.35 / metre (C od299268/2021_2022 (C Supply of PVC Pipe, 12.5kg/cm2, 160mm Dia. Net Total Quantity Say 650.000 metre @ Rs 1689.98 / metre (C od309800/2021_2022 Specials for 160 mm PVC pipe-12.5Kg/cm2 Net Total Quantity Net Total Quantity	Rs 1253.32 ost Index:41.53 %) 1519.800 metre Rs 2543157.33 650.000 metre Rs 1098487.00 1.000 L.S
2	Ker Say 1.000 Nos @ Rs 1253.32 / Nos 2Supply and Laying distribution main- cost of materials (C 100.98.116 (C Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia. Net Total Quantity Net Total Quantity Say 1519.800 metre @ Rs 1673.35 / metre od299268/2021_2022 od299268/2021_2022 >Supply of PVC Pipe, 12.5kg/cm2, 160mm Dia. Net Total Quantity Say 650.000 metre @ Rs 1689.98 / metre od309800/2021_2022 Specials for 160 mm PVC pipe-12.5Kg/cm2 Net Total Quantity Say 1.000 L.S @ Rs 25517.85 / L.S	Rs 1253.32 ost Index:41.53 %) 1519.800 metre Rs 2543157.33 650.000 metre Rs 1098487.00 1.000 L.S

	Say 1580.000 metre @ Rs 488.80 / metre	Rs 772304.00
5	od309801/2021_2022	
	Specials for 110 mm PVC pipe-10 Kg/cm2	1
	Net Total Quantity	1.000 L.S
	Say 1.000 L.S @ Rs 17940.62 / L.S	Rs 17940.62
6	100.98.224	
	Supply of uPVC Pipe, IS 4985: 2000 , 8kg/cm2, 110mm Dia.	
	Net Total Quantity	250.000 metre
	Say 250.000 metre @ Rs 418.15 / metre	Rs 104537.50
7	od309802/2021_2022	
	Specials for 110 mm PVC pipe-8 Kg/cm2	
	Net Total Quantity	1.000 L.S
	Say 1.000 L.S @ Rs 2428.41 / L.S	Rs 2428.41
8	100.98.103	
-	Supply of DI K7 Pipe Conforming to IS 8329/2000, 200mm Dia.	
	Net Total Quantity	30.000 metre
	Say 30.000 metre @ Rs 1751.10 / metre	Rs 52533.00
9	100.98.102	
	Supply of DI K7 Pipe Conforming to IS 8329/2000, 150mm Dia.	
	Net Total Quantity	30.000 metre
	Say 30.000 metre @ Rs 1475.50 / metre	Rs 44265.00
10	100.98.104	
10	Supply of DI K7 Pipe Conforming to IS 8329/2000, 250mm Dia.	
	Net Total Quantity	30.000 metre
	Say 30.000 metre @ Rs 2301.35 / metre	
11	100.98.440	
	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, S	Small Orifice Type S1, Size 25m
	Net Total Quantity	
	Say 3.000 No @ Rs 966.75 / No	Rs 2900.25
10		N3 2300.23
12	100.98.496 Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 20	000 Sluice Valve with Hand Whe
	PN 1.0, Size 150mm.	
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 6734.30 / No	Rs 6734.30
		lex:41.53 %)

1	100.1.1		
	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and		
	dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, an then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeac		
	deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a		
	lead of 50 m :		
	All kinds of soil		
	(Ref. Item No. 2.10.1 of DSR)		
	Net Total Quantity	923.201 cum	
	Say 923.201 cum @ Rs 579.85 / cum	Rs 535318.10	
2	100.1.5		
	Excavating trenches of required width for pipes, cables, etc includ	ling excavation for sockets, ar	
	dressing of sides, ramming of bottoms, depth up to 1.5 m, including g	•	
	then returning the soil as required, in layers not exceeding 20 cm in d		
	deposited layer by ramming, watering, etc. and disposing of surplus ex	xcavated soil as directed, within	
	lead of 50 m :" Ordinary Rock.		
	(Ref. Item No. 2.13.1 of DSR)		
	Net Total Quantity	173.101 cum	
	Say 173.101 cum @ Rs 842.10 / cum	Rs 145768.35	
	Gay 175.101 call @ 13 042.107 call	113 1407 00.00	
2	100.0.0		
3	100.2.3	ling excevation for sockets, ar	
3	"Excavating trenches of required width for pipes, cables, etc include	-	
3	NUTLE STATE	etting out the excavated soil, ar	
3	"Excavating trenches of required width for pipes, cables, etc include dressing of sides, ramming of bottoms, depth up to 1.5 m, including g then returning the soil as required, in layers not exceeding 20 cm in d deposited layer by ramming, watering, etc. and disposing of surplus es	etting out the excavated soil, an epth, including consolidatingea	
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3	"Excavating trenches of required width for pipes, cables, etc include dressing of sides, ramming of bottoms, depth up to 1.5 m, including g then returning the soil as required, in layers not exceeding 20 cm in d deposited layer by ramming, watering, etc. and disposing of surplus et lead of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR	etting out the excavated soil, an epth, including consolidatingeau xcavated soil as directed, within	
	"Excavating trenches of required width for pipes, cables, etc include dressing of sides, ramming of bottoms, depth up to 1.5 m, including g then returning the soil as required, in layers not exceeding 20 cm in d deposited layer by ramming, watering, etc. and disposing of surplus et lead of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity	etting out the excavated soil, an epth, including consolidatingeau xcavated soil as directed, within 57.701 cum	
3	"Excavating trenches of required width for pipes, cables, etc include dressing of sides, ramming of bottoms, depth up to 1.5 m, including g then returning the soil as required, in layers not exceeding 20 cm in d deposited layer by ramming, watering, etc. and disposing of surplus et lead of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity Say 57.701 cum @ Rs 1043.15 / cum	etting out the excavated soil, an epth, including consolidatingea xcavated soil as directed, within 57.701 cum Rs 60190.80	
	 "Excavating trenches of required width for pipes, cables, etc included dressing of sides, ramming of bottoms, depth up to 1.5 m, including get then returning the soil as required, in layers not exceeding 20 cm in deposited layer by ramming, watering, etc. and disposing of surplus exceed of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity Say 57.701 cum @ Rs 1043.15 / cum 100.8.1 	etting out the excavated soil, an epth, including consolidatingea xcavated soil as directed, within 57.701 cum Rs 60190.80	
	"Excavating trenches of required width for pipes, cables, etc included dressing of sides, ramming of bottoms, depth up to 1.5 m, including gethen returning the soil as required, in layers not exceeding 20 cm in deposited layer by ramming, watering, etc. and disposing of surplus exceeded of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity Say 57.701 cum @ Rs 1043.15 / cum 100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm	etting out the excavated soil, an epth, including consolidatingea xcavated soil as directed, within 57.701 cum Rs 60190.80	
	"Excavating trenches of required width for pipes, cables, etc included dressing of sides, ramming of bottoms, depth up to 1.5 m, including gethen returning the soil as required, in layers not exceeding 20 cm in deposited layer by ramming, watering, etc. and disposing of surplus exceeded of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity Say 57.701 cum @ Rs 1043.15 / cum 100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals.	etting out the excavated soil, an epth, including consolidatingeau xcavated soil as directed, within 57.701 cum Rs 60190.80 m plastic caution tape in vertic	
	"Excavating trenches of required width for pipes, cables, etc include dressing of sides, ramming of bottoms, depth up to 1.5 m, including g then returning the soil as required, in layers not exceeding 20 cm in d deposited layer by ramming, watering, etc. and disposing of surplus ex lead of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity Say 57.701 cum @ Rs 1043.15 / cum 100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	etting out the excavated soil, an epth, including consolidatingeau xcavated soil as directed, within 57.701 cum Rs 60190.80 m plastic caution tape in vertic	
	"Excavating trenches of required width for pipes, cables, etc included dressing of sides, ramming of bottoms, depth up to 1.5 m, including gethen returning the soil as required, in layers not exceeding 20 cm in deposited layer by ramming, watering, etc. and disposing of surplus etclead of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity 100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	etting out the excavated soil, an epth, including consolidatingea xcavated soil as directed, within 57.701 cum Rs 60190.80 m plastic caution tape in vertic	
4	"Excavating trenches of required width for pipes, cables, etc included dressing of sides, ramming of bottoms, depth up to 1.5 m, including gethen returning the soil as required, in layers not exceeding 20 cm in deposited layer by ramming, watering, etc. and disposing of surplus exceeding 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity 4 Say 57.701 cum @ Rs 1043.15 / cum 100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009) Net Total Quantity 4 Say 960.000 metre @ Rs 28.82 / metre	etting out the excavated soil, a epth, including consolidatingea xcavated soil as directed, within 57.701 cum Rs 60190.80 m plastic caution tape in vertic 960.000 metre Rs 27667.20	
4	 "Excavating trenches of required width for pipes, cables, etc included dressing of sides, ramming of bottoms, depth up to 1.5 m, including gethen returning the soil as required, in layers not exceeding 20 cm in deposited layer by ramming, watering, etc. and disposing of surplus exceeding 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity 4 Say 57.701 cum @ Rs 1043.15 / cum 100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009) Net Total Quantity 4 Say 960.000 metre @ Rs 28.82 / metre 4.1.3 	etting out the excavated soil, and epth, including consolidatingeau xcavated soil as directed, within 57.701 cum Rs 60190.80 m plastic caution tape in vertice 960.000 metre Rs 27667.20	
4	 "Excavating trenches of required width for pipes, cables, etc including g then returning the soil as required, in layers not exceeding 20 cm in d deposited layer by ramming, watering, etc. and disposing of surplus et lead of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR Net Total Quantity Say 57.701 cum @ Rs 1043.15 / cum 100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009) Net Total Quantity Say 960.000 metre @ Rs 28.82 / metre 4.1.3 Providing and laying in position cement concrete of specified grade ex shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 	etting out the excavated soil, and epth, including consolidatingeau xcavated soil as directed, within 57.701 cum 57.701 cum 57.701 cum 757.701 cu	

	Say 12.960 cum @ Rs 8340.93 / cum	Rs 108098.45
6	4.3.1 Centering and shuttering including strutting, propping etc. and remove footings, bases for columns	al of form work for:Foundatior
	Net Total Quantity	4.400 sqm
	Say 14.400 sqm @ Rs 350.00 / sqm	Rs 5040.00
7	100.14.2 Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron excluding cost of pipes and specials : 150 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.16 in DAR	n Pipes conforming to IS: 83
	Net Total Quantity 6	50.000 metre
	Say 650.000 metre @ Rs 91.50 / metre	Rs 59475.00
8	100.14.1 Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron excluding cost of pipes and specials : 100 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.15 in DAR	n Pipes conforming to IS: 83
	Net Total Quantity 1	450.000 metre
	Say 1450.000 metre @ Rs 61.42 / metre	Rs 89059.00
	18.68.1 Kerala Water Authority	
9	18.68.1 Kerala Water Authomy Providing and laying D.I specials of class K - 12 suitable for push - on mm dia	pinting as per IS : 9523 :Upt 6
9	Providing and laying D.I specials of class K - 12 suitable for push - on	4
9	Providing and laying D.I specials of class K - 12 suitable for push - on mm dia	4
9	Providing and laying D.I specials of class K - 12 suitable for push - on mm dia Net Total Quantity 1	2.471 quintal Rs 261929.04
	Providing and laying D.I specials of class K - 12 suitable for push - on mm dia Net Total Quantity 1 Say 12.471 quintal @ Rs 21003.05 / quintal 18.69.1 Providing and laying D.I Specials of Class K - 12 suitable for mechanic	2.471 quintal Rs 261929.04 cal jointing as per IS : 9523 :Up
	Providing and laying D.I specials of class K - 12 suitable for push - on mm dia Net Total Quantity 1 Say 12.471 quintal @ Rs 21003.05 / quintal 18.69.1 Providing and laying D.I Specials of Class K - 12 suitable for mechanic 600 mm dia	2.471 quintal Rs 261929.04 cal jointing as per IS : 9523 :Up
	Providing and laying D.I specials of class K - 12 suitable for push - on mm dia Net Total Quantity 1 Say 12.471 quintal @ Rs 21003.05 / quintal 18.69.1 Providing and laying D.I Specials of Class K - 12 suitable for mechanic 600 mm dia	2.471 quintal Rs 261929.04 cal jointing as per IS : 9523 :Up 9.000 quintal
10	Providing and laying D.I specials of class K - 12 suitable for push - on mm dia Net Total Quantity 1 Say 12.471 quintal @ Rs 21003.05 / quintal 18.69.1 Providing and laying D.I Specials of Class K - 12 suitable for mechanic 600 mm dia Net Total Quantity 9 Say 9.000 quintal @ Rs 22071.60 / quintal 18.83.4	2.471 quintal Rs 261929.04 cal jointing as per IS : 9523 :Up 0.000 quintal Rs 198644.40
10	Providing and laying D.I specials of class K - 12 suitable for push - on mm dia Net Total Quantity 1 Say 12.471 quintal @ Rs 21003.05 / quintal 18.69.1 Providing and laying D.I Specials of Class K - 12 suitable for mechanic 600 mm dia Net Total Quantity 9 Say 9.000 quintal @ Rs 22071.60 / quintal 18.83.4 Labour for cutting C.I. pipe with steel saw.150 mm diameter C.I. pipe	2.471 quintal Rs 261929.04 cal jointing as per IS : 9523 :Up 0.000 quintal Rs 198644.40
10	Providing and laying D.I specials of class K - 12 suitable for push - on mm dia Net Total Quantity 1 Say 12.471 quintal @ Rs 21003.05 / quintal 18.69.1 Providing and laying D.I Specials of Class K - 12 suitable for mechanic 600 mm dia Net Total Quantity 9 Say 9.000 quintal @ Rs 22071.60 / quintal 18.83.4 Labour for cutting C.I. pipe with steel saw.150 mm diameter C.I. pipe Net Total Quantity 7	2.471 quintal Rs 261929.04 cal jointing as per IS : 9523 :Up 0.000 quintal Rs 198644.40 7.000 Each Cut

	Say 18.000 Each Cut @ Rs 179.39 / Each Cut	Rs 3229.02
13	18.70.1 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Du joints and including the cost of rubber gasket:100 mm dia pipes	ctile Iron Pipes including testing
	Net Total Quantity	265.000 joint
	Say 265.000 joint @ Rs 112.59 / joint	Rs 29836.35
14	18.70.2 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Du joints and including the cost of rubber gasket:150 mm dia pipes	ctile Iron Pipes including testing
	Net Total Quantity	120.000 joint
	Say 120.000 joint @ Rs 184.13 / joint	Rs 22095.60
15	18.30.4 Providing flanged joints to double flanged C.I./ D.I pipes and specials, diameter pipe	including testing of joints:150 m
	Net Total Quantity	8.000 Nos
	Say 8.000 Nos @ Rs 402.30 / Nos	Rs 3218.40
16	18.30.2 Providing flanged joints to double flanged C.I./ D.I pipes and specials, diameter pipe	including testing of joints:100 m
16	Providing flanged joints to double flanged C.I./ D.I pipes and specials,	
16	Providing flanged joints to double flanged C.I./ D.I pipes and specials, diameter pipe	
16	Providing flanged joints to double flanged C.I./ D.I pipes and specials, diameter pipe Kerala Water Net Total Quantity	12.000 Nos Rs 3907.08 e with bolts, nuts, rubber insertio
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, diameter pipe Kerala Water Attraction Quantity Say 12.000 Nos @ Rs 325.59 / Nos 100.31.1.4 Conveying and fixing C.I. sluice valves (with cap) by providing complete etc. excluding the cost of valve (the tail pieces if required will be paid se 150 mm diameter. Class I"	12.000 Nos Rs 3907.08 with bolts, nuts, rubber insertio eparately) :
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, diameter pipe Kerala Water Attraction Say 12.000 Nos @ Rs 325.59 / Nos 100.31.1.4 Conveying and fixing C.I. sluice valves (with cap) by providing complete etc. excluding the cost of valve (the tail pieces if required will be paid se 150 mm diameter. Class I" Data derived from item no.18.31.3.1 of DAR	12.000 Nos Rs 3907.08 with bolts, nuts, rubber insertio eparately) :
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, diameter pipe Kerala Water Net Total Quantity Say 12.000 Nos @ Rs 325.59 / Nos 100.31.1.4 Conveying and fixing C.I. sluice valves (with cap) by providing complete etc. excluding the cost of valve (the tail pieces if required will be paid set 150 mm diameter. Class I" Data derived from item no.18.31.3.1 of DAR Net Total Quantity	12.000 Nos Rs 3907.08 with bolts, nuts, rubber insertio eparately) : 2.000 Nos Rs 2506.64 omplete with bolts, nuts, rubb
17	Providing flanged joints to double flanged C.I./ D.I pipes and specials, diameter pipe Kerala Water Net Total Quantity Say 12.000 Nos @ Rs 325.59 / Nos 100.31.1.4 Conveying and fixing C.I. sluice valves (with cap) by providing complete etc. excluding the cost of valve (the tail pieces if required will be paid set 150 mm diameter. Class I" Data derived from item no.18.31.3.1 of DAR Net Total Quantity Say 2.000 Nos @ Rs 1253.32 / Nos 100.31.1.2 "Conveying and fixing C.I. sluice valves (with cap) by providing c insertions etc. excluding the cost of valve (the tail pieces if required diameter. Class I"	12.000 Nos Rs 3907.08 e with bolts, nuts, rubber insertio eparately) : 2.000 Nos Rs 2506.64 omplete with bolts, nuts, rubb will be paid separately) :100 m

19	100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality w excluding the cost of air valve(the tail pieces if required will be paid se 25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR	
	Net Total Quantity	5.000 Nos
	Say 5.000 Nos @ Rs 146.63 / Nos	Rs 733.15
20	100.35.2 Testing 150mm DI/CI pipeline with potable water to the required test pr 150 mm dia Observed Data derived from item no.1018 of PHED DATA	essure
	Net Total Quantity	650.000 metre
	Say 650.000 metre @ Rs 32.88 / metre	Rs 21372.00
21	100.35.1 Testing 100mm DI/CI pipeline with potable water to the required test pr 100 mm dia Observed Data derived from item no.1016 of PHED DATA	essure
	Net Total Quantity	1450.000 metre
	Say 1450.000 metre @ Rs 24.35 / metre	Rs 35307.50
	4Providing Gravity -Cost of materials (Cost Index	:41.53 %)
1	100.98.116Kerala Water AuthoritySupply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia.	
	Net Total Quantity	663.000 metre
	Say 663.000 metre @ Rs 1673.35 / metre	Rs 1109431.05
2	100.98.115 Supply of DI K9 Pipe Conforming to IS 8329/2000, 100mm Dia.	
	Net Total Quantity	1479.000 metre
	Say 1479.000 metre @ Rs 1143.05 / metre	Rs 1690570.95
3	100.98.440 Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice,	Small Orifice Type S1, Size 25mm.
	Net Total Quantity	5.000 No
	Say 5.000 No @ Rs 966.75 / No	Rs 4833.75
4	100.98.458 Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2 Size 100mm.	000, Sluice Valve with Cap PN 1.6,
	Net Total Quantity	3.000 No
	Say 3.000 No @ Rs 4186.85 / No	Rs 12560.55

5	100.98.460 Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 20	000, Sluice	Valve with Cap PN 1
	Size 150mm.	-	•
	Net Total Quantity	2.000 No	
	Say 2.000 No @ Rs 6770.65 / No		Rs 13541.30
5Cc	onstruction of valve chamber for Valves in Pumping and gravity main	ns (Cos	st Index:41.53 %)
1	2.8.1 Earth work in excavation by mechanical means (Hydraulic excavat trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan ramming of bottoms, lift up to 1.5 m, including getting out the excav excavated soil as directed, within a lead of 50 m.All kinds of soil	i), including	dressing of sides a
	Net Total Quantity	16.641 cun	n
	Say 16.641 cum @ Rs 309.95 / cum		Rs 5157.88
	Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : nominal size)	4 graded s	•
	Net Lotal ()uantity	1 125 cum	
	Net Total Quantity Say 1.125 cum @ Rs 8340.93 / cum		Rs 9383.55
3	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size	nt concrete level:1:1:5	e, excluding the cost
3	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth	nt concrete level:1:1:5	e, excluding the cost
3	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size	nt concrete level:1:1:5 8.146 cum	e, excluding the cost
3	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size Net Total Quantity	nt concrete level:1:1:5 8.146 cum	e, excluding the cost :3 (1 cement 1.5 coar Rs 77249.74
	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size Net Total Quantity Say 8.146 cum @ Rs 9483.15 / cum 5.9.2 Centering and shuttering including strutting, etc. and removal of form	nt concrete level:1:1:5 8.146 cum for:Walls (a	e, excluding the cost :3 (1 cement 1.5 coa Rs 77249.74 any thickness) includ
	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size Net Total Quantity Say 8.146 cum @ Rs 9483.15 / cum 5.9.2 Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc.	nt concrete level:1:1:5 8.146 cum for:Walls (a 54.600 sqn	e, excluding the cost 3 (1 cement 1.5 coar Rs 77249.74 any thickness) includ
	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size Net Total Quantity Say 8.146 cum @ Rs 9483.15 / cum 5.9.2 Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc. Net Total Quantity	nt concrete level:1:1:5 8.146 cum for:Walls (a 54.600 sqn , bending,	e, excluding the cost :3 (1 cement 1.5 coar Rs 77249.74 any thickness) include n Rs 40874.65 placing in position a
4	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size Net Total Quantity Say 8.146 cum @ Rs 9483.15 / cum 5.9.2 Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc. Net Total Quantity Say 54.600 sqm @ Rs 748.62 / sqm 5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, cutting, cutting, cutting, cutting	nt concrete level:1:1:5 8.146 cum for:Walls (a 54.600 sqn , bending, d bars of g	e, excluding the cost :3 (1 cement 1.5 coar Rs 77249.74 any thickness) include n Rs 40874.65 placing in position a rade Fe-500D or mo
4	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size Net Total Quantity Say 8.146 cum @ Rs 9483.15 / cum 5.9.2 Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc. Net Total Quantity Say 54.600 sqm @ Rs 748.62 / sqm 5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, binding all complete upto plinth levelThermo - Mechanically Treated	nt concrete level:1:1:5 8.146 cum for:Walls (a 54.600 sqn , bending, d bars of g 651.681 kil	e, excluding the cost :3 (1 cement 1.5 coar Rs 77249.74 any thickness) includi n Rs 40874.65 placing in position a rade Fe-500D or mo
4	Say 1.125 cum @ Rs 8340.93 / cum 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size Net Total Quantity Say 8.146 cum @ Rs 9483.15 / cum 5.9.2 Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc. Net Total Quantity Say 54.600 sqm @ Rs 748.62 / sqm 5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, binding all complete upto plinth levelThermo - Mechanically Treated Net Total Quantity	nt concrete level:1:1:5 8.146 cum for:Walls (a 54.600 sqn , bending, d bars of g 651.681 kil	e, excluding the cost :3 (1 cement 1.5 coar Rs 77249.74 any thickness) includi n Rs 40874.65 placing in position a rade Fe-500D or mo ogram Rs 66868.99

Centage Amount	0.00
Provision for GST payments (in %) @	12.0%
Amount reserved for GST payments	1439761.93
Total & Centage	13437778.05
Lumpsum for round off	2221.95
GRAND TOTAL Rs	13440000.00
Rounded Grand	1 Total Rs 1,34,40,000
Rupees One Crore Thirty Four Lakh	Forty Thousand Only



Kerala Water Authority PRICE