

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

(Dsr year: 2018)

1Supply and Laying distribution lines -working charges (Cost Index: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 then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach 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	
2096.163 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 excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)
Net Total Quantity	
393.033 cum	
Say 393.033 cum @ Rs 842.10 / cum	
Rs 330973.09	
3	100.2.3 "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 then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR
Net Total Quantity	
131.013 cum	
Say 131.013 cum @ Rs 1043.15 / cum	
Rs 136666.21	

4	100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	
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 Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials : 150 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.16 in DAR	
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 Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials : 200 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.17 in DAR	
Net Total Quantity		30.000 metre
Say 30.000 metre @ Rs 127.45 / metre		Rs 3823.50
7	100.14.4 Kerala Water Authority Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials : 250 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.18 in DAR	
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 - on jointing as per IS : 9523 :Upt 600 mm dia	
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 mechanical jointing as per IS : 9523 :Upto 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 Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:150 mm dia pipes	
Net Total Quantity		274.000 joint
Say 274.000 joint @ Rs 184.13 / joint		Rs 50451.62
11	18.30.4 Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:150 mm 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 pressure 150 mm dia Observed Data derived from item no.1018 of PHED DATA	
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 trenches already made, placing in position aligning the pipe line to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipe line with water to the required test pressure (excluding cost of pipes and specials).160 mm nominal outer dia pipes.	
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 trenches already made, placing in position aligning the pipe line to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipe line with water to the required test pressure (excluding cost of pipes and specials). 110 mm nominal outer dia pipes.	
Net Total Quantity		1830.000 metre
Say 1830.000 metre @ Rs 133.89 / metre		Rs 245018.70
16	4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	

		Net Total Quantity	4.320 cum
		Say 4.320 cum @ Rs 8340.93 / cum	Rs 36032.82
17	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns		
		Net Total Quantity	17.280 sqm
		Say 17.280 sqm @ Rs 350.00 / sqm	Rs 6048.00
18	100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc . excluding the cost of air valve(the tail pieces if required will be paid seperately): 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
19	100.31.1.4 Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) : 150 mm diameter. Class I" Data derived from item no.18.31.3.1 of DAR		
		Net Total Quantity	1.000 Nos
		Say 1.000 Nos @ Rs 1253.32 / Nos	Rs 1253.32
2Supply and Laying distribution main- cost of materials (Cost Index:41.53 %)			
1	100.98.116 Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia.		
		Net Total Quantity	1519.800 metre
		Say 1519.800 metre @ Rs 1673.35 / metre	Rs 2543157.33
2	od299268/2021_2022 Supply of PVC Pipe, 12.5kg/cm2, 160mm Dia.		
		Net Total Quantity	650.000 metre
		Say 650.000 metre @ Rs 1689.98 / metre	Rs 1098487.00
3	od309800/2021_2022 Specials for 160 mm PVC pipe-12.5Kg/cm2		
		Net Total Quantity	1.000 L.S
		Say 1.000 L.S @ Rs 25517.85 / L.S	Rs 25517.85
4	100.98.237 Supply of uPVC Pipe, IS 4985: 2000 , 10kg/cm2, 110mm Dia.		
		Net Total Quantity	1580.000 metre

		Say 1580.000 metre @ Rs 488.80 / metre	Rs 772304.00
5	od309801/2021_2022 Specials for 110 mm PVC pipe-10 Kg/cm2		
		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 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	Rs 69040.50
11	100.98.440 Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm.		
		Net Total Quantity	3.000 No
		Say 3.000 No @ Rs 966.75 / No	Rs 2900.25
12	100.98.496 Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.0, Size 150mm.		
		Net Total Quantity	1.000 No
		Say 1.000 No @ Rs 6734.30 / No	Rs 6734.30
3Providing Gravity Mains-Working charges (Cost Index: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 then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : 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 including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :" 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
3	100.2.3 "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 then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : Medium Rock (Requiring Blasting) New Data derived from DAR	
		Net Total Quantity 57.701 cum
		Say 57.701 cum @ Rs 1043.15 / cum Rs 60190.80
4	100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	
		Net Total Quantity 960.000 metre
		Say 960.000 metre @ Rs 28.82 / metre Rs 27667.20
5	4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	
		Net Total Quantity 12.960 cum

Say 12.960 cum @ Rs 8340.93 / cum		Rs 108098.45
6	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns	
Net Total Quantity		14.400 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 Pipes conforming to IS: 8329 excluding cost of pipes and specials : 150 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.16 in DAR	
Net Total Quantity		650.000 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 Pipes conforming to IS: 8329 excluding cost of pipes and specials : 100 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.15 in DAR	
Net Total Quantity		1450.000 metre
Say 1450.000 metre @ Rs 61.42 / metre		Rs 89059.00
9	18.68.1 Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia	
Net Total Quantity		12.471 quintal
Say 12.471 quintal @ Rs 21003.05 / quintal		Rs 261929.04
10	18.69.1 Providing and laying D.I Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :Upto 600 mm dia	
Net Total Quantity		9.000 quintal
Say 9.000 quintal @ Rs 22071.60 / quintal		Rs 198644.40
11	18.83.4 Labour for cutting C.I. pipe with steel saw.150 mm diameter C.I. pipe	
Net Total Quantity		7.000 Each Cut
Say 7.000 Each Cut @ Rs 337.12 / Each Cut		Rs 2359.84
12	18.83.2 Labour for cutting C.I. pipe with steel saw.100 mm diameter C.I. pipe	
Net Total Quantity		18.000 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 Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:100 mm dia pipes	
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 Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:150 mm dia pipes	
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, including testing of joints:150 mm diameter pipe	
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, including testing of joints:100 mm diameter pipe	
Net Total Quantity		12.000 Nos
Say 12.000 Nos @ Rs 325.59 / Nos		Rs 3907.08
17	100.31.1.4 Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) : 150 mm diameter. Class I" Data derived from item no.18.31.3.1 of DAR	
Net Total Quantity		2.000 Nos
Say 2.000 Nos @ Rs 1253.32 / Nos		Rs 2506.64
18	100.31.1.2 "Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :100 mm diameter. Class I" Data derived from item no.18.31.1.1of DAR	
Net Total Quantity		3.000 Nos
Say 3.000 Nos @ Rs 925.39 / Nos		Rs 2776.17

19	100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc . excluding the cost of air valve(the tail pieces if required will be paid seperately): 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 pressure 150 mm dia Observed Data derived from item no.1018 of PHED DATA	
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 pressure 100 mm dia Observed Data derived from item no.1016 of PHED DATA	
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	100.98.116 Supply 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 - 2000, Sluice Valve with Cap PN 1.6, Size 100mm.	
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 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.		
		Net Total Quantity	2.000 No
		Say 2.000 No @ Rs 6770.65 / No	Rs 13541.30
5Construction of valve chamber for Valves in Pumping and gravity mains (Cost Index:41.53 %)			
1	2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil		
		Net Total Quantity	16.641 cum
		Say 16.641 cum @ Rs 309.95 / cum	Rs 5157.88
2	4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)		
		Net Total Quantity	1.125 cum
		Say 1.125 cum @ Rs 8340.93 / cum	Rs 9383.55
3	5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)		
		Net Total Quantity	8.146 cum
		Say 8.146 cum @ Rs 9483.15 / cum	Rs 77249.74
4	5.9.2 Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.		
		Net Total Quantity	54.600 sqm
		Say 54.600 sqm @ Rs 748.62 / sqm	Rs 40874.65
5	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more		
		Net Total Quantity	651.681 kilogram
		Say 651.681 kilogram @ Rs 102.61 / kilogram	Rs 66868.99
		Total	11998016.12
		Centage @	0.0%

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 Total Rs 1,34,40,000	
Rupees One Crore Thirty Four Lakh Forty Thousand Only	



Kerala Water Authority

PRICE