

Detailed Estimate

**JJM - WSS TO KUMARAMANGALAM PANCHAYATH IN IDUKKI DISTRICT - PIPE
LINE EXTENSION FOR VARIOUS WARDS IN KUMARAMANGALAM
PANCHAYATH**

(Dsr year: 2018)

Sl No	Description	No	L	B	D	CF	Quantity	Remark
101-Providing Distribution lines in various wards of kumaramangalam panchayaths (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)							
	75 mm PVC CL5	1	4714.000	0.500	1.000	0.6	1414.200	
	90 mm PVC CL5	1	1692.000	0.500	1.000	0.6	507.600	
Kerala Water Authority Total Quantity							1921.800 cum	
Total Deducted Quantity							0.000 cum	
Net Total Quantity							1921.800 cum	
Say 1921.800 cum @ Rs 579.85 / cum							Rs 1114355.73	
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)							
	75 mm PVC CL5	1	4714.000	0.500	1.000	0.3	707.100	
	90 mm PVC CL5	1	1692.000	0.500	1.000	0.3	253.800	
Total Quantity							960.900 cum	
Total Deducted Quantity							0.000 cum	
Net Total Quantity							960.900 cum	
Say 960.900 cum @ Rs 842.10 / cum							Rs 809173.89	

3	100.2.7 "Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 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 (blasting prohibited) New Data derived from DAR							
	75 mm PVC CL5	1	4714.000	0.500	1.000	0.1	235.701	
	90 mm PVC CL5	1	1692.000	0.500	1.000	0.1	84.601	
	Total Quantity						320.302 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						320.302 cum	
	Say 320.302 cum @ Rs 1400.37 / cum						Rs 448541.31	
4	100.59.1 Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.							
	Crossing	4*2	5.000				40.000	
	Shoulder	1	1900.000				1900.000	
	Total Quantity						1940.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						1940.000 metre	
	Say 1940.000 metre @ Rs 31.77 / metre						Rs 61633.80	
5	15.59 Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilo metre, as per direction of Engineer-in-charge.							
	Crossing	4*2	5.000	0.500	0.200		4.000	
	Shoulder	1	1900.000	0.500	0.200		190.000	
	Total Quantity						194.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						194.000 cum	
	Say 194.000 cum @ Rs 394.66 / cum						Rs 76564.04	
6	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)							
		1	600.000				600.000	
	Total Quantity						600.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						600.000 metre	
	Say 600.000 metre @ Rs 28.82 / metre						Rs 17292.00	
7	50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge							
	75mm/90mm PVC	1	150.000	0.500	1.000	0.05	3.750	
	Total Quantity						3.750 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						3.750 cum	
	Say 3.750 cum @ Rs 548.85 / cum						Rs 2058.19	
8	100.12.7 Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 65 mm dia nominal bore Data derived from item no.18.12.7 of DAR Data for 10 m							
		1	3955.000				3955.000	
	Total Quantity						3955.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						3955.000 metre	
	Say 3955.000 metre @ Rs 217.39 / metre						Rs 859777.45	
9	100.12.8 Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 80 mm dia nominal bore Data derived from item no.18.12.8 of DAR Data for 10 m							
		1	210.000				210.000	
	Total Quantity						210.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						210.000 metre	

		Say 210.000 metre @ Rs 217.74 / metre					Rs 45725.40	
10	100.9.7 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). 75 mm nominal outer dia pipes.							
		1	4714.000				4714.000	
		Total Quantity					4714.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					4714.000 metre	
		Say 4714.000 metre @ Rs 90.86 / metre					Rs 428314.04	
11	100.9.8 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). 90 mm nominal outer dia pipes."							
		1	1692.000				1692.000	
		Total Quantity					1692.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					1692.000 metre	
		Say 1692.000 metre @ Rs 90.86 / metre					Rs 153735.12	
12	18.13.2 Making connection of G.I. distribution branch with G.I main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete:50 to 80 mm nominal bore							
		12					12.000	
		Total Quantity					12.000 No	
		Total Deducted Quantity					0.000 No	
		Net Total Quantity					12.000 No	
		Say 12.000 No @ Rs 1760.35 / No					Rs 21124.20	
13	18.17.5 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :65 mm nominal bore							
		8					8.000	
		Total Quantity					8.000 No	
		Total Deducted Quantity					0.000 No	

		Net Total Quantity					8.000 No	
		Say 8.000 No @ Rs 1828.36 / No						Rs 14626.88
14	18.17.6	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :80 mm nominal bore						
		2					2.000	
		Total Quantity					2.000 No	
		Total Deducted Quantity					0.000 No	
		Net Total Quantity					2.000 No	
		Say 2.000 No @ Rs 2725.02 / No						Rs 5450.04
15	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						
		6					6.000	
		Total Quantity					6.000 Nos	
		Total Deducted Quantity					0.000 Nos	
		Net Total Quantity					6.000 Nos	
		Say 6.000 Nos @ Rs 146.63 / Nos						Rs 879.78
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)						
	Anchor Blocks	10	0.600	0.600	0.600		2.160	
	Road restoration	1	1700.000	0.500	0.150		127.500	
		Total Quantity					129.660 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					129.660 cum	
		Say 129.660 cum @ Rs 8340.93 / cum						Rs 1081484.98
17	5.9.2	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.						
	Anchor blocks	10	2.400		0.600		14.400	
		Total Quantity					14.400 sqm	
		Total Deducted Quantity					0.000 sqm	

		Net Total Quantity					14.400 sqm	
		Say 14.400 sqm @ Rs 748.62 / sqm					Rs 10780.13	
18	100.98.235 Supply of uPVC Pipe, IS 4985: 2000 , 10kg/cm2, 75mm Dia.							
		1	4714.000				4714.000	
		Total Quantity					4714.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					4714.000 metre	
		Say 4714.000 metre @ Rs 244.60 / metre					Rs 1153044.40	
19	100.98.236 Supply of uPVC Pipe, IS 4985: 2000 , 10kg/cm2, 90mm Dia.							
		1	1692.000				1692.000	
		Total Quantity					1692.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					1692.000 metre	
		Say 1692.000 metre @ Rs 356.40 / metre					Rs 603028.80	
20	18.12.7 Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work65 mm dia nominal bore							
		1	3955.000				3955.000	
		Total Quantity					3955.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					3955.000 metre	
		Say 3955.000 metre @ Rs 879.75 / metre					Rs 3479411.25	
21	od66542/2022_2023 Supply of 65mm GI specials							
		1	1.000				1.000	
		Total Quantity					1.000 L.S	
		Total Deducted Quantity					0.000 L.S	
		Net Total Quantity					1.000 L.S	
		Say 1.000 L.S @ Rs 173970.00 / L.S					Rs 173970.00	
22	18.12.8 Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work80 mm dia nominal bore							
		1	210.000				210.000	

1	od66533/2022_2023 Road restoration charges for 20mm open graded chipping carpet surface cutting						
	PWD roads	1	350.000	1.000			350.000
	Total Quantity						350.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						350.000 sqm
	Say 350.000 sqm @ Rs 2619.13 / sqm						Rs 916695.50
2	od66535/2022_2023 Road restoration - Berm cutting						
	PWD Roads	1	1700.000	1.000			1700.000
	Total Quantity						1700.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						1700.000 sqm
	Say 1700.000 sqm @ Rs 304.96 / sqm						Rs 518432.00
3	od66538/2022_2023 Road restoration charges for concrete road surface						
		1	150.000	1.000			150.000
	Total Quantity						150.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						150.000 sqm
	Say 150.000 sqm @ Rs 4638.51 / sqm						Rs 695776.50
						Total	13054735.58
						Centage @	0.0%
						Centage Amount	0.00
						Provision for GST payments (in %) @	18.0%
						Amount reserved for GST payments	2349852.40
						Total & Centage	15404587.99
						Lumpsum for round off	95412.01
						GRAND TOTAL Rs	15500000.00
						Rounded Grand Total Rs	1,55,00,000
						Rupees One Crore Fifty Five Lakh Only	