

KERALA WATER AUTHORITY, P.H. DIVISION, IRINJALAKUDA

Work Name: JJM-Extension of pipe line at various wards of Padiyur Grama panchayath

ACCEPTED SCHEDULE						
Sl. No.	Item Description	Quantity	Units	Accepted Rate		Total Amount
				Figures	Words	
1	Working Charges					
1.001	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.	2140.00	metre	27.00	Rupees Twenty Seven Only	57780
1.002	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.	1750.00	cum	484.00	Rupees Four Hundred Eighty Four Only	847000
1.003	Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals.	1500.00	metre	24.00	Rupees Twenty Four Only	36000
1.004	Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work 40 mm dia nominal bore	48.00	metre	610.00	Rupees Six Hundred Ten Only	29280
1.005	Taking connection from existing line of size 50mm to 110mm, using PVC specials including all earthwork excavation, re-filling etc, including cost of specials	26.00	no	1033.00	Rupees One Thousand Thirty Three Only	26858

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1.006	Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 50 mm nominal outside diameter pipes.	3500.00	metre	41.00	Rupees Forty One Only	143500
2	Cost of materials					
2.001	Supply of PVC Pipe, 6kg/cm ² , 50mm Dia.	3500.00	metre	58.00	Rupees Fifty Eight Only	203000
2.002	Cost of specials for Pvc pipes 3 %	1.00	no	6052.00	Rupees Six Thousand Fifty Two Only	6052
3	PWD Road restoration - BM & BC Road					
3.001	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m	519.60	cum	42.00	Rupees Forty Two Only	21823.2
3.002	Construction of granular sub-base by providing graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with a motor grader on the prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 Grading-I - Plant Mix Method	259.80	cum	2750.00	Rupees Two Thousand Seven Hundred Fifty Only	714450
3.003	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	194.85	cum	2826.00	Rupees Two Thousand Eight Hundred Twenty Six Only	550646.1

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3.004	Providing and applying primer coat with bitumen emulsion (SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means.	1299.00	sqm	64.00	Rupees Sixty Four Only	83136
3.005	5.2.b:Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom.	1299.00	sqm	10.00	Rupees Ten Only	12990
3.006	Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size)	64.95	cum	7507.00	Rupees Seven Thousand Five Hundred Seven Only	487579.65
3.007	Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder(NRMB) @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size)	38.97	cum	11533.00	Rupees Eleven Thousand Five Hundred Thirty Three Only	449441.01
3.008	Providing and applying tack coat with bitumen emulsion(RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.	1299.00	sqm	10.00	Rupees Ten Only	12990

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4	Temporary Road restoration					
4.001	Refilling the trenches with a wet mix of close graded granular materials (Stone aggregate - 25mm nominal size - 17.5%, Stone aggregate - 10mm nominal size - 17.5%, Crushed Stone - 2.36mm to 12.5mm - 25%, Stone chippings / screenings - 4.75mm nominal size - 20%, Stone chippings / screenings - 150 micron nominal size - 20%), mixing properly after adding sufficient quantity of water, refilling in layers not exceeding 150mm, compacting properly at Optimum Moisture Content with Surface Plate Vibrator and disposing the excavated material etc. complete, including traffic control, providing caution boards and as per direction of Engineer-in-charge for road restoration works in pipeline leak sites.	32.50	cum	7473.00	Rupees Seven Thousand Four Hundred Seventy Three Only	242872.5
4.002	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	16.25	cum	6968.00	Rupees Six Thousand Nine Hundred Sixty Eight Only	113230
Total Accepted PAC Rs.						4,038,628
Rupees Forty Lakh Thirty Eight Thousand Six Hundred and Twenty Eight Only						


EXECUTIVE ENGINEER
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 Kerala Water Authority
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