

Work Name: JJM 2021-22 - Thrikkur Grama Panchayath (Phase II) - Providing FHTCs to Rural house holds by augmentation of existing scheme

KERALA WATER AUTHORITY, PH CIRCLE, THRISSUR

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT
ACCEPTED SCHEDULE					
				Figures words	
1	Providing distribution mains & network (Cost of materials)				
1.001	Supply of DI K9 Pipe Conforming to IS 8329/2000, 350mm Dia.	1143.000	metre	5275.82	INR Five Thousand Two Hundred & Seventy Five and Paise Eighty Two Only
1.002	Supply of DI K9 Pipe Conforming to IS 8329/2000, 400mm Dia.	202.000	metre	6771.87	INR Six Thousand Seven Hundred & Seventy One and Paise Ninety Seven Only
1.003	Supply of DI K9 Pipe Conforming to IS 8329/2000, 450mm Dia.	20.000	metre	7874.35	INR Seven Thousand Eight Hundred & Seventy Four and Paise Thirty Nine Only
1.004	Supply of DI K9 Pipe Conforming to IS 8329/2000, 300mm Dia.	3695.000	metre	4330.90	INR Four Thousand Three Hundred & Thirty and Paise Ninety Only
1.005	Supply of DI K9 Pipe Conforming to IS 8329/2000, 250mm Dia.	668.000	metre	3454.75	INR Three Thousand Four Hundred & Sixty Four and Paise Seventy Three Only
1.006	Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia.	4333.000	metre	2490.42	INR Two Thousand Four Hundred & Eighty and Paise Forty Two Only
1.007	Supplying double flanged 350mm DI K9 pipe 	30.000	metre	7527.82	INR Seven Thousand Five Hundred & Twenty Seven and Paise Ninety Two Only
1.008	Supplying double flanged 400mm DI K9 pipe	6.000	metre	9685.51	INR Nine Thousand Six Hundred & Eighty Five and Paise Fifty One Only
1.009	Supplying double flanged 300mm DI K9 pipe	90.000	metre	5666.79	INR Five Thousand Nine Hundred & Sixty Eight and Paise Seventy Nine Only

1.01	Supplying double flanged 250 mm DI K9 pipe	30,000 metre	4645.90	INR Four Thousand Six Hundred & Forty Five and Paise Ninety Only	284128.35
1.011	Supplying double flanged 200 mm DI K9 pipe	90,000 metre	3267.87	INR Three Thousand Two Hundred & Sixty Seven and Paise Eighty Seven Only	281222.50
1.012	Supply of PE Pipe, PE100, PN8, 180mm dia, conforming to IS 4984/2016.	325,000 metre	665.30	INR Eight Hundred & Sixty Five and Paise Thirty Only	217994.40
1.013	Supply of PE Pipe, PE100, PN8, 150mm dia, conforming to IS 4984/2016.	1352,000 metre	689.20	INR Six Hundred & Eighty Nine and Paise Twenty Only	931798.40
1.014	Supply of PE Pipe, PE100, PN8, 125mm dia, conforming to IS 4984/2016.	3706,000 metre	419.00	INR Four Hundred & Nineteen Only	1552814.00
1.015	Supply of PE Pipe, PE100, PN10, 125mm dia, conforming to IS 4984/2016.	1077,000 metre	511.60	INR Five Hundred & Eleven and Paise Sixty Only	550993.20
1.016	Supply of PE Pipe, PE100, PN8, 110mm dia, conforming to IS 4984/2016	9689,000 metre	316.40	INR Three Hundred & Sixteen and Paise Forty Only	3128879.60
1.017	Supply of PE Pipe, PE100, PN10, 110mm dia, conforming to IS 4984/2016.	7402,000 metre	385.55	INR Three Hundred & Eighty Five and Paise Fifty Five Only	2853841.10
1.018	Supply of uPVC Pipe, IS 4985: 2000, 6xkg/cm ² , 75mm Dia.	14265,000 metre	157.25	INR One Hundred & Fifty Seven and Paise Twenty Five Only	2243171.25
1.019	Supply of uPVC Pipe, IS 4985: 2000, 8xkg/cm ² , 75mm Dia.	1897,000 metre	210.25	INR Two Hundred & Ten and Paise Twenty Five Only	396741.75
1.02	Supply of uPVC Pipe, IS 4985: 2000, 10xkg/cm ² , 75mm Dia.	4415,000 metre	244.60	INR Two Hundred & Forty Four and Paise Sixty Only	1079909.00
1.021	Supply of uPVC Pipe, IS 4985: 2000, 6xkg/cm ² , 63mm Dia.	2707,000 metre	111.80	INR One Hundred & Eleven and Paise Eighty Only	302642.60
1.022	Supply of uPVC Pipe, IS 4985: 2000, 8xkg/cm ² , 63mm Dia.	605,000 metre	146.35	INR One Hundred & Forty Six and Paise Thirty Five Only	88541.75

1.023	Supply of uPVC Pipe IS 4985 - 2000, 10kg/cm ² , 63mm Dia.	1029.000	metre	174.70	INR One Hundred & Seventy Four and Paise Seventy Only	181513.30
1.024	Supply of uPVC Pipe IS 4985 - 2000, 6kg/cm ² , 50mm Dia.	2152.000	metre	69.90	INR Sixty Nine and Paise Ninety Only	150424.80
1.025	Supply of uPVC Pipe IS 4985 - 2000, 8kg/cm ² , 50mm Dia.	124.000	metre	96.40	INR Ninety Six and Paise Forty Only	11953.60
1.026	Supply of uPVC Pipe IS 4985 - 2000, 10kg/cm ² , 50mm Dia.	417.000	metre	111.80	INR One Hundred & Eleven and Paise Eighty Only	46620.60
1.027	Supply of G.I. pipes 150 mm dia	200.000	metre	2090.70	INR Two Thousand & Ninety and Paise Seventy Only	418140.00
1.028	Supply of G.I. pipes 125 mm dia.	200.000	metre	1758.51	INR One Thousand Seven Hundred & Fifty Eight and Paise Fifty One Only	351702.00
1.029	Supply of G.I. pipes 100 mm dia.	200.000	metre	1341.53	INR One Thousand Three Hundred & Forty One and Paise Fifty Three Only	268306.00
1.03	Cost of PVC Specials	1.000	set	135045.00	INR One Lakh Thirty Five Thousand & Forty Five Only	135045.00
1.031	Cost of PE Specials including PE coupler	1.000	set	464977.00	INR Four Lakh Sixty Four Thousand Nine Hundred & Seventy Seven Only	464977.00
1.032	Cost of GI Specials	1.000	set	51907.40	INR Fifty One Thousand Nine Hundred & Seven and Paise Forty Only	51907.40
1.033	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm.	30.000	No	6636.75	INR Five Thousand Six Hundred & Thirty Six and Paise Seventy Five Only	169102.50
1.034	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Double Orifice Type DS2, Size 50mm.	10.000	No	7947.00	INR Seven Thousand Nine Hundred & Forty Seven Only	79470.00
1.035	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 400mm.	1.000	No	94877.15	INR Ninety Four Thousand Eight Hundred & Seventy Seven and Paise Fifteen Only	94877.15

1036	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 450mm.	1,000	No	111285.65	INR One Lakh Eleven Thousand Two Hundred & Eighty Five and Paise Sixty Five Only	111285.65
1037	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 350mm.	1,000	No	77806.55	INR Seventy Seven Thousand Eight Hundred & Six and Paise Fifty Five Only	77806.55
1038	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 300mm.	1,000	No	43312.35	INR Forty Three Thousand Three Hundred & Twelve and Paise Thirty Five Only	43312.35
1039	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 250mm.	1,000	No	34361.80	INR Thirty Four Thousand Three Hundred & Sixty One and Paise Eighty Only	34361.80
1040	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 200mm.	2,000	No	23723.65	INR Twenty Three Thousand Seven Hundred & Twenty Three and Paise Sixty Five Only	47447.30
1041	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.	4,000	No	13396.75	INR Thirteen Thousand Three Hundred & Ninety Six and Paise Seventy Five Only	53587.00
1042	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 100mm.	8,000	No	9003.95	INR Nine Thousand & Three and Paise Ninety Five Only	54023.70
1043	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 80mm.	13,000	No	6624.05	INR Six Thousand Six Hundred & Twenty Four and Paise Five Only	99360.75
2	WORKING CHARGES					
2.001	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	18381.031	0.3m	555.51	INR Five Hundred & Fifty Five and Paise Fifty One Only	10241968.66

2.002	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 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.	18393.051	cum	808.76	INR Eight Hundred & Six and Paise Seventy Six Only	14830710.22
2.003	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m ² 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 soils as directed, within a lead of 50 m. Medium Rock (blasting prohibited)	2610.233	cum	1059.91	INR One Thousand & Fifty Nine and Paise Ninety One Only	2766612.06
2.004	*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 : Hard Rock (Blasting Prohibited)	703.721	cum	1556.30	INR One Thousand Five Hundred & Fifty Six and Paise Thirty Only	1095200.99
2.005	Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tape in vertical casing in pole (girth 15cm to 24cm) fixed at 2 m intervals.	20000.000	metre	28.01	INR Twenty Eight and Paise One Only	560200.00
2.006	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials : 450 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.22 in DAR	20.000	metre	384.87	INR Three Hundred & Eighty Four and Paise Eighty Seven Only	7697.40
2.007	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials : 400 mm dia Ductile Iron Class K-9 Pipes	202.000	metre	327.31	INR Three Hundred & Twenty Seven and Paise Thirty One Only	66116.62

2.008	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 350 mm dia Ductile Iron Class K-9 Pipes	1119.000	metre	271.79	INR Two Hundred & Seventy One and Paise Seventy Nine Only	304133.01
2.009	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 300 mm dia Ductile Iron Class K-9 Pipes	3035.000	metre	205.15	INR Two Hundred & Five and Paise Fifteen Only	622630.25
2.01	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	850.000	metre	163.05	INR One Hundred & Sixty Three and Paise Five Only	136592.50
2.011	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	4243.000	metre	122.10	INR One Hundred & Twenty Two and Paise Ten Only	518070.30
2.012	Labour for cutting D.I. pipe with steel saw, 200 mm diameter D.I. pipe	15.000	Each Cut	430.73	INR Four Hundred & Thirty and Paise Seventy Three Only	6460.95
2.013	Labour for cutting D.I. pipe with steel saw, 250 mm diameter D.I. pipe	8.000	Each Cut	535.65	INR Five Hundred & Thirty Five and Paise Sixty Five Only	4285.29
2.014	Labour for cutting D.I. pipe with steel saw, 300 mm diameter D.I. pipe	15.000	Each Cut	843.43	INR Six Hundred & Forty Three and Paise Forty Three Only	9851.45
2.015	Labour for cutting D.I. pipe with steel saw, 350 mm diameter D.I. pipe	8.000	Each Cut	748.35	INR Seven Hundred & Forty Eight and Paise Thirty Five Only	5986.80
2.016	Labour for cutting D.I. pipe with steel saw, 400 mm diameter D.I. pipe	2.000	Each Cut	855.72	INR Eight Hundred & Fifty Five and Paise Seventy Two Only	1711.44
2.017	Labour for cutting D.I. pipe with steel saw, 450 mm diameter D.I. pipe	2.000	Each Cut	961.05	INR Nine Hundred & Sixty One and Paise Five Only	1922.10

2.018	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 : Up to 600mm dia	153,590	quintal	20121.56	INR Twenty Thousand One Hundred & Twenty One and Paise Fifty Six Only	3092482.56
2.019	Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 110 mm OD HDPE pipe	17291.000	metre	126.51	INR One Hundred & Twenty Six and Paise Fifty One Only	2187484.41
2.02	Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 125 mm OD HDPE pipe	4783.000	metre	133.89	INR One Hundred & Thirty Three and Paise Sixty Nine Only	639439.27
2.021	Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using butt joint automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 160 mm OD HDPE pipe	1352.000	metre	215.19	INR Two Hundred & Fifteen and Paise Nineteen Only	299336.88

2.022	Laying HDPE pipes (IS : 4394) on land portion including conveying with initial lead and aligning the pipes, electro-fusion welding using butt joint, automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing, aligning the pipeline, lowering the line to position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. /lt-cv>180 mm OD HDPE pipe/lt-cv>	325.000	metre	265.56	INR Two Hundred & Sixty Five and Paise Fifty Eight Only	86313.50
2.023	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 joining 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.	20567.000	metre	87.05	INR Eighty Seven and Paise Five Only	1790357.35
2.024	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 joining 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), 63 mm nominal outer dia pipes.	4351.000	metre	87.05	INR Eighty Seven and Paise Five Only	378754.55
2.025	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 joining 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), 50 mm nominal outer dia pipes.	2693.000	metre	47.59	INR Forty Seven and Paise Fifty Nine Only	128159.87
2.026	Curveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 150 mm dia nominal one	200.000	metre	291.38	INR Two Hundred & Ninety One and Paise Thirty Eight Only	58276.00
2.027	Curveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 125 mm dia nominal two	200.000	metre	263.45	INR Two Hundred & Sixty Three and Paise Forty Five Only	52600.00

2.028	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. 100 mm dia nominal bore	200,000 metre	235.16 INR Two Hundred & Thirty Five and Paise Eighteen Only	47036.00
2.029	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 80 mm dia nominal bore	1200,000 metre	1019.84 INR One Thousand & Nineteen and Paise Eighty Four Only	1223808.00
2.03	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 65 mm dia nominal bore	200,000 metre	842.83 INR Eight Hundred & Forty Two and Paise Eighty Three Only	168566.00
2.031	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 50 mm dia nominal bore	100,000 metre	665.34 INR Six Hundred & Sixty Five and Paise Thirty Four Only	66534.00
2.032	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 40 mm dia nominal bore	200,000 metre	568.73 INR Five Hundred & Sixty Eight and Paise Seventy Three Only	113746.00
2.033	Providing flanged joints to double flanged C.I./ D.I pipes and specials. Including testing of joints: 400 mm diameter pipe	2,000 Nos	1066.42 INR One Thousand & Sixty Six and Paise Forty Two Only	2132.84
2.034	Providing flanged joints to double flanged C.I./ D.I pipes and specials. Including testing of joints: 350 mm diameter pipe	12,000 Nos	777.41 INR Seven Hundred & Seventy Seven and Paise Forty One Only	9328.92
2.035	Providing flanged joints to double flanged C.I./ D.I pipes and specials. Including testing of joints: 300 mm diameter pipe	30,000 Nos	578.43 INR Five Hundred & Seventy Eight and Paise Forty Three Only	17352.90
2.036	Providing flanged joints to double flanged C.I./ D.I pipes and specials. Including testing of joints: 250 mm diameter pipe	10,000 Nos	570.56 INR Five Hundred & Seventy and Paise Fifty Six Only	5705.60
2.037	Providing flanged joints to double flanged C.I./ D.I pipes and specials. Including testing of joints: 200 mm diameter pipe	30,000 Nos	418.50 INR Four Hundred & Eighteen and Paise Fifty Only	12555.00

2.038	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:450 mm dia pipes	5,000 joint		784.25	INR Seven Hundred & Eighty Four and Paise Twenty Five Only	3921.25
2.039	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:400 mm dia pipes	37,000 joint		681.34	INR Six Hundred & Eighty One and Paise Thirty Four Only	25209.58
2.04	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:350 mm dia pipes	204,000 joint		437.75	INR Four Hundred & Thirty Seven and Paise Seventy Five Only	89301.00
2.041	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:300 mm dia pipe	552,000 joint		412.60	INR Four Hundred & Twelve and Paise Sixty Only	227755.20
2.042	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:250 mm dia pipes	155,000 joint		315.99	INR Three Hundred & Fifteen and Paise Ninety Nine Only	48978.45
2.043	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:200 mm dia pipes	772,000 joint		258.77	INR Two Hundred & Fifty Eight and Paise Seventy Seven Only	198770.44
2.044	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 separately): 25 mm Single acting Air Valve Observed	30,000 Nos		140.47	INR One Hundred & Forty and Paise Forty Seven Only	4214.10
2.045	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 separately): 50 mm Double acting Air Valve	10,000 Nos		219.59	INR Two Hundred & Nineteen and Paise Fifty Nine Only	2195.90

2.046	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) : 450 mm diameter. Class I'	1,000 Nos	5661.90	INR Five Thousand Six Hundred & Sixty One and Paise Ninety Only	5661.90
2.047	"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) : 400 mm diameter. Class I'	1,000 Nos	4576.37	INR Four Thousand Five Hundred & Seventy Six and Paise Thirty Seven Only	4576.37
2.048	"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) : 350 mm diameter. Class I'	1,000 Nos	3464.53	INR Three Thousand Four Hundred & Sixty Four and Paise Fifty Three Only	3464.53
2.049	"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) : 300 mm diameter. Class I'	1,000 Nos	2594.45	INR Two Thousand Five Hundred & Ninety Four and Paise Forty Five Only	2594.45
2.05	"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) : 200 mm diameter. Class I'	2,000 Nos	1557.66	INR One Thousand Five Hundred & Fifty Seven and Paise Sixty Six Only	3115.32
2.051	"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) : 250 mm diameter. Class I'	1,000 Nos	2208.08	INR Two Thousand Two Hundred & Eight and Paise Eight Only	2208.08
2.052	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'	4,000 Nos	1200.72	INR One Thousand Two Hundred and Paise Seventy Two Only	4802.88

2.046	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) : 450 mm diameter. Class I'	1,000 Nos	5661.90	INR Five Thousand Six Hundred & Sixty One and Paise Twenty Only	5661.90
2.047	Conveying and fixing C.I. sluice valve (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) : 400 mm diameter. Class I'	1,000 Nos	4576.37	INR Four Thousand Five Hundred & Seventy Six and Paise Thirty Seven Only	4576.37
2.048	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) : 350 mm diameter. Class I'	1,000 Nos	3464.53	INR Three Thousand Four Hundred & Sixty Four and Paise Fifty Three Only	3464.53
2.049	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) : 300 mm diameter. Class I'	1,000 Nos	2594.45	INR Two Thousand Five Hundred & Ninety Four and Paise Forty Five Only	2594.45
2.05	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) : 200 mm diameter. Class I'	2,000 Nos	1557.66	INR One Thousand Five Hundred & Fifty Seven and Paise Sixty Six Only	3115.32
2.051	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) : 250 mm diameter. Class I'	1,000 Nos	2208.09	INR Two Thousand Two Hundred & Eight and Paise Eight Only	2208.09
2.052	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'	4,000 Nos	1200.72	INR One Thousand Two Hundred and Paise Seventy Two Only	4802.88

2.053	Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the full price if required will be paid separately). 100 mm diameter, Class I'	6,000 Nos	886.56 INR Eight Hundred & Eighty Six and Paise Fifty Six Only	5319.26
2.054	Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the full price if required will be paid separately). 80 mm diameter, Class I'	15,000 Nos	587.99 INR Five Hundred & Eighty Seven and Paise Ninety Nine Only	8819.85
2.055	Proving protection tube with 140mm PVC pipe 10kg/cm ² including cost and conveyance of all materials and labour charges	25,000 No	1241.86 INR One Thousand Two Hundred & Forty One and Paise Eighty Six Only	31046.50
2.056	Proving protection tube with 200mm PVC pipe 10kg/cm ² including cost and conveyance of all materials and labour charges	1,000 No	2336.20 INR Two Thousand Three Hundred & Thirty Six and Paise Twenty Only	2336.20
2.057	Centering and shuttering including strutting, etc. and removal of form for Foundations, footings, bases of columns, etc for mass concrete	120.963 sqm	335.31 INR Three Hundred & Thirty Five and Paise Thirty One Only	40560.10
2.058	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)	23,843 cu.m	7950.86 INR Seven Thousand Nine Hundred & Ninety and Paise Eighty Six Only	190526.07
2.059	Testing 200mm DI/CI pipeline with potable water to the required test pressure 200 mm dia	4243.000 metre	39.90 INR Thirty Nine and Paise Ninety Only	169295.70
2.06	Testing 250mm DI/CI pipeline with potable water to the required test pressure . 250 mm dia	850,000 metre	50.91 INR Fifty and Paise Ninety One Only	43273.50
2.061	Testing 300mm DI/CI pipeline with potable water to the required test pressure. 300 mm dia	3035,000 metre	55.59 INR Fifty Five and Paise Fifty Nine Only	168715.65
2.062	Testing 350mm DI/CI pipeline with potable water to the required test pressure. 350 mm dia	1119,000 metre	67.85 INR Sixty Seven and Paise Eighty Five Only	75924.15

2.003	Testing 400mm DICI pipeline with potable water to the required test pressure 400 mm dia	202.000	metre	85.49	INR Eighty Five and Paise Forty Nine Only	17286.98
2.004	Testing 450mm DICI pipeline with potable water to the required test pressure 450 mm dia	20.000	metre	94.33	INR Ninety Four and Paise Thirty Three Only	1886.60
2.005	Supply, stacking, spreading and consolidating of Quarry Bluck in the trench of pipe line, including carriage, loading, unloading & stacking up to any lead.	50.000	cum	547.87	INR Five Hundred & Forty Seven and Paise Eighty Seven Only	27393.50
2.006	Supply, stacking, spreading and consolidating of Red earth in the trench of pipe line for cushion including carriage, loading, unloading & stacking up to any lead.	50.000	cum	355.18	INR Three Hundred & Fifty Five and Paise Eighteen Only	17759.09
2.007	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	14.000	cum	296.94	INR Two Hundred & Ninety Six and Paise Ninety Four Only	4157.16
2.008	Excavation work 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 soils as directed, within a lead of 50 m. Ordinary rock	14.000	cum	527.51	INR Five Hundred & Twenty Seven and Paise Fifty One Only	7385.14
2.009	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 counter-slopes 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)	14.000	cum	1341.50	INR One Thousand Three Hundred & Forty One and Paise Sixty Only	18782.40

2.07	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides; ramming of bottoms; depth exceeding 1.5m but not exceeding 3m, 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 : 1.5m to 3.0m Hard Rock(Blasting Prohibited)	12.000 cum		1747.08 INR One Thousand Seven Hundred & Forty Seven and Paise Eight Only	22013.20
2.071	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shoring : All work up to plinth level: 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	4.000 cum		6614.89 INR Six Thousand Eight Hundred & Fourteen and Paise Eighty Nine Only	26572.54
2.072	Reinforced cement concrete work in walls (any thickness), including attached plasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, piers and shafts etc. up to floor five level excluding cost of centering, shoring, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	20.246 cum		10854.04 INR Ten Thousand Nine Hundred & Fifty Four and Paise Four Only	221775.49
2.073	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level:Thermo-Mechanically Treated bars of grade Fe-500D or more	2530.750 kilogram		98.30 INR Ninety Eight and Paise Thirty Only	248772.73
2.074	Centering and shuttering including stuffing, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	144.482 sqm		717.20 INR Seven Hundred & Seventeen and Paise Twenty Only	103222.48
2.075	Taking connection from existing line of size 140mm to 160mm, using PVC specials including all earthwork, excavation, refilling etc, including cost of specials	25.000 No		1055.24 INR One Thousand & Fifty Five and Paise Twenty Four Only	26331.00
2.076	Taking connection from existing line of size 50mm to 110mm, using PVC specials including all earthwork, excavation, refilling etc, including cost of specials	30.000 No		985.56 INR Nine Hundred & Eighty Five and Paise Fifty Five Only	29566.50

Providing FHTCs

3.001	Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5 m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc. and as per the direction of the departmental officers.	2100.000	Nos	5902.86	INR Five Thousand Nine Hundred & Two and Paise Eighty Six Only	12395006.00
3.002	Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains from 140mm to 200mm dia., up to a length of 5 m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc. and as per the direction of the departmental officers.	150.000	Nos	6102.96	INR Six Thousand One Hundred & Two and Paise Eighty Six Only	915429.00

2.077	<p>Repair work for 1m to 2m length of 20mm (3/4 inch) house connections, using 25mm PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression specials, including trenching and refilling in all kinds of soil. Hire for tools, cost of consumables and labour charges, cost of materials, including charges for lighting, watching, providing caution boards, traffic control etc. complete, but excluding the cost of cutting of concrete / tamed / bituminous roads and as per the directions of the department officers.</p>	300.000	Nos	1107.31	R/R One Thousand One Hundred & Seven and Paise Fifty One Only	332253.00
2.078	<p>Replacing the cracked / damaged 20mm (3/4 inch) house connection with 15mm meter from existing mains, up to a length of 5m using 25mm (3/4 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass female, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges but excluding cost of water meter and meter box and excluding charges for cutting the concrete / tamed / bituminous roads and as per the directions of the department officers.</p>	300.000	Nos	7180.06	R/R Seven Thousand One Hundred & Eighty and Paise Six Only	2154018.00

	Providing 20mm (1/2 inch) PVC Air Valve in the water meter assembly for 15mm connection, using 20mm Indian Standard Class 6 uPVC pipes and specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers.	1200.000	Nos	375.97	INR Three Hundred & Seventy Five and Paise Nirety Seven Only	451164.00
3.006	Providing 15mm PVC Tap in the water meter assembly for 15mm connection, using 20mm Indian Standard Class 6 uPVC pipes and specials including cost of materials, consumables, hire charges for tools and labour charges etc. complete and as per the direction of departmental officers.	2393.000	Nos	582.86	INR Five Hundred & Eighty Two and Paise Eighty Six Only	1388955.38
3.007	Providing additional length of house connection pipe using 20mm Indian Standard Class 6 uPVC pipe and specials and testing the joints etc., by trenching and refilling in all kinds of soil with trench of average cross section 0.3m x 0.75m for laying of connection pipe and service pipe, lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per the directions of the department officers.	8000.000	metre	176.90	INR One Hundred & Seventy Six and Paise Nirety Only	1415200.00
3.008	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.	5000.000	metre	30.44	INR Thirty and Paise Forty Four Only	152280.08
3.009	Dismantling manually / by mechanical means, disposal of unserviceable material within 50 metres lead as per direction of Engineer -in-Charge: Bituminous/ concrete road	2500.000	cum	87.88	INR Eighty Seven and Paise Eighty Eight Only	219700.80

3.003	<p>Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing AC / GI mains up to 125 mm dia., up to a length of 5 m using 20mm Indian Standard Class B uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full-way wheel valve, Elbow, MTA, FTA, couplers, GI / MS / SS Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Muffet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tamped / bituminous roads etc. and as per the direction of the departmental officers.</p>	100,000 Nos	801576 (R/R) Six Thousand Eighty Five and Paise Seventy Six Only	801576.00
3.004	<p>Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing AC / GI mains from 150mm to 200mm dia., up to a length of 5 m using 20mm Indian Standard Class B uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full-way wheel valve, Elbow, MTA, FTA, couplers, GI / MS / SS Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Muffet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tamped / bituminous roads etc. and as per the direction of the departmental officers.</p>	33,000 Nos	410286 (R/R) Six Thousand One Hundred & Two and Paise Eight Six Only	291,194.38

Copy submitted to the Executive Engineer, P H Division, Tirupalakkuda for information. You should ensure that the equitable distribution of work among empanelled list of licensed plumbers and electricians is allotted on a rotation basis.

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S	Road Restoration PWD					
5.001	Supply ,stacking,spreading and consolidating of Quarry Muck in the trench of pipe line, including cartage, loading ,unloading & stacking up to any lead,	1350.000	cum	547.87	INR Five Hundred & Forty Seven and Paise Eighty Seven Only	739824.50
5.002	Engaging Coole	30.000	Day	878.78	INR Eight Hundred & Seventy Eight and Paise Seventy Six Only	26362.80
5.003	PWD Code 3.6 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	6475.000	cum	48.56	INR Forty Eight and Paise Fifty Six Only	411548.00
5.004	PWD Code 3.19.1 - Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers to meet requirement of table 300-2 for Compacting original ground supporting sub-grade construction.	5520.000	cum	67.24	INR Sixty Seven and Paise Twenty Four Only	371164.80
5.005	PWD Code 4.1.8.1 Construction of granular sub base by providing graded materials, mixing in a mechanical mix plant at OMAC ,cartage of mixed materials to work site ,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, completed as per clause 401 grading 1-Plant Mix method	2320.000	cum	3220.77	INR Three Thousand Two Hundred & Twenty and Paise Seventy Seven Only	7472186.40
5.006	PWD Code 4.12 Providing,laying,spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMAC in mechanical mix plant cartage of mixed materials 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	1740.000	cum	2800.83	INR Two Thousand Eight Hundred & Fifty Five and Paise Eighty Five Only	4969173.00

3.01	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 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	375.000	cum	7863.27	INR Seven Thousand Eight Hundred & Sixty Three and Paise Twenty Seven Only	294872.50
4	Temporary road Restoration					
4.001	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	450.000	cum	555.51	INR Five Hundred & Fifty Five and Paise Fifty One Only	249973.50
4.002	Supply, stacking, spreading and consolidating of Quarry Muck in the trench of pipe line, including cartage, loading, unloading & stacking up to any lead.	450.000	cum	547.87	INR Five Hundred & Forty Seven and Paise Eighty Seven Only	246541.50
4.003	PWD Code 3.19.1 - Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers to meet requirement of table 300-2 for Compacting original ground supporting sub-grade construction.	450.000	cum	67.24	INR Sixty Seven and Paise Twenty Four Only	30258.60
4.004	Engaging Cooke	10.000	Day	878.76	INR Eight Hundred & Seventy Eight and Paise Seventy Six Only	8787.60
4.005	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 30 mm nominal size)	5.250	cum	7367.55	INR Seven Thousand Three Hundred & Sixty Seven and Paise Fifty Five Only	38678.64
4.006	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	5.250	cum	7211.15	INR Seven Thousand Two Hundred & Eleven and Paise Fifteen Only	37935.54

3.01	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 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	375.000	cum	7863.27	INR Seven Thousand Eight Hundred & Sixty Three and Paise Twenty Seven Only	2948726.25
4	Temporary road Restoration					
4.001	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	450.000	cum	555.51	INR Five Hundred & Fifty Five and Paise Fifty One Only	249979.50
4.002	Supply, stacking, spreading and consolidating of Quality Muck in the trench of pipe line, including cartage, loading, unloading & stacking up to any lead.	450.000	cum	547.87	INR Five Hundred & Forty Seven and Paise Eighty Seven Only	246541.50
4.003	PWD Code 3.19.1 - Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers to meet requirement of table 300-2 for Compacting original ground supporting sub-grade construction.	450.000	cum	67.24	INR Sixty Seven and Paise Twenty Four Only	30258.00
4.004	Engaging Coolie	10.000	Day	878.76	INR Eight Hundred & Seventy Eight and Paise Seventy Six Only	8787.80
4.005	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	5.250	cum	7387.55	INR Seven Thousand Three Hundred & Sixty Seven and Paise Fifty Five Only	38679.64
4.006	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	5.250	cum	7211.15	INR Seven Thousand Two Hundred & Eleven and Paise Fifteen Only	37858.54

5.007	PWD-12.4- Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. 	2.800	cum	6451.17	INR Six Thousand Four Hundred & Fifty One and Paise Seventeen Only	18063.28
5.008	PWD-12.8.1.C- Plain reinforced cement concrete in open foundation complete as per drawing and technical specification R.C.C grade M 20- using concrete mixer- (without form work)	2.800	cum	7781.54	INR Seven Thousand Seven Hundred & Eighty One and Paise Fifty Four Only	21788.31
5.009	PWD -12.40_ Supply, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and technical specifications	0.376	MT	68174.81	INR Eighty Eight Thousand One Hundred & Seventy Four and Paise Eight One Only	33330.08
5.01	PWD 55.4 supplying and stacking 36mm size hard broken stone in standard heaps for measurement.	580.000	cum	2303.09	INR Two Thousand Three Hundred & Three and Paise Nine Only	1335792.20
5.011	PWD 55.8.A Filling up pot holes (cut and formed to regular shapes and all loose and defective materials removed) after supplying a prime coat of hot bitumen using 36mm departmental broken stone and compacting with power roller to get a compact surface	580.000	cum	4746.96	INR Four Thousand Seven Hundred & Forty Six and Paise Ninety Six Only	2753236.80
5.012	PWD Code 5.1.a providing and applying primer coat with bitumen emulsion (SS) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means	11600.000	sqm	53.11	INR Fifty Three and Paise Eleven Only	616076.00
5.013	PWD : 5.2.a Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.2- 0.30 kg per sqm. on the prepared bituminous surface cleaned with mechanical broom	13600.000	sqm	11.06	INR Eleven and Paise Eight Only	150688.00

5.014	for Tarring work->Providing, laying and rolling of close-graded premix surfacing material of 20mm thickness composed of 11.2 mm to 0.075 mm (Type -A) aggregates using viscous grade bitumen (VG -30) to the required line, grade, and level to serve as wearing course on a previously prepared base including mixing in a suitable HMP of appropriate capacity not less than 75 tonnes /hour laying and rolling with smooth wheeled roller 8-10 tone capacity and finishing to the required level and grade	9600.000	cum	268.23	INR Two Hundred & Sixty Eight and Paise Twenty Three Only	2575000
5.015	PWD->5.3.1.a->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 bituminous binder (VG 30), transported to 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 I (40 mm nominal size)	100.000	cum	8031.31	INR Eight Thousand & Thirty One and Paise Thirty One Only	803131.00
5.016	PWD->5.6.2.a->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)	80.000	cum	11208.00	INR Eleven Thousand Two Hundred & Eight Only	672480.00
6	Road Restoration LSGB					
6.001	LSGD->3.15.1->Compacting Original Ground->((i))Compacting original ground supporting embankment->Loosening, Levelling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Tables 300.1 and 300.2 for embankment construction as per Technical Specification Clause 301.4.1.	4996.000	cum	14.07	INR Fourteen and Paise Seven Only	70279.65

	Supply, stacking, spreading and consolidating of Quarry Muck in the trench of pipe line, including cartage, loading, unloading & stacking up to any lead.	1350.000	cum	547.87	INR Five Hundred & Forty Seven and Three Eighty Seven Only	739624.50
6.003	PWD Code 3.6 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	8990.000	cum	48.50	INR Forty Eight and Paise Fifty Six Only	485114.40
6.004	LSGD 4.11.2 Granular sub-base/base/surface course with local materials (Table 400.13) by mix in place method normal. Construction of granular sub-base by providing local material spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at once and compacting with smooth wheel roller to achieve the desired density complete as per Clause 401.4 as per Technical Specification Clause 409. Using Gravel mix soil.	3330.000	cum	2243.69	INR Two Thousand Two Hundred & Forty Three and Paise Sixty Nine Only	7471487.70
6.005	LSGD 4.8 Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), cartage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 405. By Mechanical Means with 1 km lead	2497.500	cum	3316.45	INR Three Thousand Three Hundred & Sixteen and Paise Forty Six Only	8282858.85
6.006	LSGD 75.5.1.1 Prime Coat - Low porosity - With Facked Bitumen Ratio Providing and applying primer coat with bitumen emulsion (ES-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.75-1.0 kg/sqm using mechanical means as per Technical Specification Clause 550	33300.300	sqm	75.82	INR Seventy Five and Paise Eighty Two Only	2524806.00

6.007	LSGD-75.5.2.2p- Tack Coat - With Packed Bitumen Rates- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic brooms as per Technical Specification Clause 593.	33300.000	sqm	15.82	NR Fifteen and Paise Eighty Two Only	526636.00
6.008	LEGD-75.5.9.1.2p- 20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 - Packed Bitumen Rates- Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 60-100 kN static roller capacity, finished to required level and grades to L+ followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 598. Case - I By Manual Means- (i) Bitumen (S-65) including supplying and stacking of materials.	33300.000	sqm	198.75	NR One Hundred & Ninety and Paise Seventy Five Only	6351975.00
6.009	LEGD- 75.5.12.A.3.2p- Seal coat - Manual means - Type C - Bitumen S-65 - Packed bitumen rate- Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per technical specification clause 510 A. By manual means- Case II - Type C- (i) Bitumen (S-65), including supplying and stacking of materials.	33300.000	sqm	80.72	NR Eighty and Paise Seventy Two Only	2687976.00
Total in Figures						171927802
Add Tender costs @ 7.87%						12034946
Quoted Rate in Figures						183962748

Eighteen Crore Thirty Nine Lakh Sixty Two Thousand Seven Hundred & Forty Eight Only

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