

KERALA WATER AUTHORITY, PH CIRCLE, THRISSUR

Work Done: JMM-Thrissur district-Vadanappilly Gramapanchayath -Providing FHTC to Rural house holds and allied works.

ACCEPTED SCHEDULE

Sl. No.	Item Description	Quantity	Units	Rate		Amount
				In figures	In words	
1	Appendix A - Distribution strengthening (Working Charge)					
1 001	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 (Ref. Item No. 2.10.1 of DSR)	13645.992	cum	383.00	INR Three Hundred & Eighty Three Only	5226414.94
1 002	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)	6500.000	metre	22.00	INR Twenty Two Only	143000.00
1 003	Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered); Depth not exceeding 1.5 m	3172.500	sqm	74.00	INR Seventy Four Only	234765.00
1 004	Bailing out water with 5 HP engine and pumpset including conveyance to the site, erection, dismantling and taking back of engine and pump, cost of fuel lubricating oil and other stores pay of staff etc. complete. NEW DATA. (Prepared based on PHED SDB - Item No.1070)	500.000	Kwh	34.00	INR Thirty Four Only	17000.00
1 005	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS- 8329 excluding cost of pipes and specials : 600 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.24 in DAR	100.000	metre	395.00	INR Three Hundred & Ninety Five Only	39500.00
1 006	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	733.000	metre	230.00	INR Two Hundred & Thirty Only	168590.00
1 007	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 Data derived from 18.72.21 in DAR	182.000	metre	222.00	INR Two Hundred & Twenty Two Only	40404.00
1 008	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 Data derived from 18.72.20 in DAR	987.000	metre	183.00	INR One Hundred & Eighty Three Only	180621.00

1.01	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 Data derived from 18.72.19 in DAR	1673.000	metre	138.00	INR One Hundred & Thirty Eight Only	230874.00
1.01	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	2503.000	metre	110.00	INR One Hundred & Ten Only	275330.00
1.011	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 Data derived from 18.72.17 in DAR	251.000	metre	82.00	INR Eighty Two Only	20582.00
1.012	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."	9000.000	metre	56.00	INR Fifty Six Only	504000.00
1.013	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) 50 mm nominal outer dia pipes.	3000.000	metre	31.00	INR Thirty One Only	93000.00
1.014	Conveying and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) excluding cost of pipe and specials : 400 mm dia C.I.Double Flanged Pipe Data derived from 18.71.7 in DAR	15.000	metre	366.00	INR Three Hundred & Sixty Six Only	5490.00
1.015	Conveying and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) excluding cost of pipe and specials : 350 mm dia C.I.Double Flanged Pipe Data derived from 18.71.6 in DAR	15.000	metre	295.00	INR Two Hundred & Ninety Five Only	4425.00
1.016	Conveying and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) excluding cost of pipe and specials : 300 mm dia C.I.Double Flanged Pipe Data derived from 18.71.5 in DAR	15.000	metre	237.00	INR Two Hundred & Thirty Seven Only	3555.00
1.017	Conveying and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) excluding cost of pipe and specials : 250 mm dia C.I.Double Flanged Pipe Data derived from 18.71.4 in DAR	15.000	metre	185.00	INR One Hundred & Eighty Five Only	2775.00
1.018	Conveying and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) excluding cost of pipe and specials : 200 mm dia C.I.Double Flanged Pipe Data derived from 18.71.3 in DARData for 5 m	15.000	metre	136.00	INR One Hundred & Thirty Six Only	2040.00
1.019	Labour for cutting D.I. pipe with steel saw : 600 mm diameter D.I. pipe	5.000	No	822.00	INR Eight Hundred & Twenty Two Only	4110.00
1.02	Labour for cutting D.I. pipe with steel saw : 450 mm diameter D.I. pipe	20.000	No	620.00	INR Six Hundred & Twenty Only	12400.00

	Labour for cutting D.I. pipe with steel saw. 400 mm diameter D.I. pipe		10,000	Each	Cur	550.00	INR Five Hundred & Fifty Only	5500.00
1.022	Labour for cutting D.I. pipe with steel saw. 350 mm diameter D.I. pipe		20,000	Each	Cur	480.00	INR Four Hundred & Eighty Only	9600.00
1.024	Labour for cutting D.I. pipe with steel saw. 250 mm diameter D.I. pipe		30,000	Each	Cur	415.00	INR Four Hundred & Fifteen Only	12450.00
1.025	Labour for cutting D.I. pipe with steel saw. 200 mm diameter D.I. pipe		50,000	Each	Cur	345.00	INR Three Hundred & Forty Five Only	17250.00
1.026	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		10,000	Each	Cur	278.00	INR Two Hundred & Seventy Eight Only	2780.00
1.027	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		51,000	joint		202.00	INR Two Hundred & Two Only	10302.00
1.028	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		39,000	joint		569.00	INR Five Hundred & Sixty Nine Only	22191.00
1.029	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:600 mm dia pipes		147,000	joint		555.00	INR Six Hundred & Fifty Five Only	96285.00
1.03	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		20,000	joint		910.00	INR Nine Hundred & Ten Only	18200.00
1.031	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 -		504,000	joint		245.00	INR Two Hundred & Forty Five Only	123480.00
1.032	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		338,000	joint		327.00	INR Three Hundred & Twenty Seven Only	110526.00
1.033	Providing flanged joints to double flanged C.I./D.I pipes and specials, including testing of joints:200 mm diameter pipe		201,000	joint		354.00	INR Three Hundred & Fifty Four Only	71154.00
	Providing flanged joints to double flanged C.I./D.I pipes and specials, including testing of joints:200 mm diameter pipe		9,000	Nos		350.00	INR Three Hundred & Fifty Only	3150.00

1.035	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:250 mm diameter pipe	9.000	Nos	484.00	INR Four Hundred & Eighty Four Only	4356.00
1.036	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:300 mm diameter pipe	9.000	Nos	491.00	INR Four Hundred & Ninety One Only	4419.00
1.037	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:400 mm diameter pipe	9.000	Nos	671.00	INR Six Hundred & Seventy One Only	6039.00
1.038	Testing 200mm DI/CI pipeline with potable water to the required test pressure 200 mm dia Observed Data derived from item no.1020 of PHED DATA	266.000	metre	29.00	INR Nine Hundred & Fifty Only	8550.00
1.039	Testing 250mm DI/CI pipeline with potable water to the required test pressure . 250 mm dia Observed Data derived from item no.1022 of PHED DATA	2518.000	metre	38.00	INR Twenty Nine Only	7714.00
1.04	Testing 300mm DI/CI pipeline with potable water to the required test pressure. 300 mm dia Observed Data derived from item no.1023 of PHED DATA	1688.000	metre	44.00	INR Thirty Eight Only	95684.00
1.041	Testing 350mm DI/CI pipeline with potable water to the required test pressure. 350 mm dia Observed Data derived from item no.1024 of PHED DATA	1002.000	metre	53.00	INR Forty Four Only	74272.00
1.042	Testing 400mm DI/CI pipeline with potable water to the required test pressure:400 mm dia Observed Data derived from item no.1026 of PHED DATA	197.000	metre	68.00	INR Fifty Three Only	53106.00
1.043	Testing 450mm DI/CI pipeline with potable water to the required test pressure. 450 mm dia Observed Data derived from item no.1027 of PHED DATA	733.000	metre	77.00	INR Sixty Eight Only	13396.00
1.044	Testing 600mm DI/CI pipeline with potable water to the required test pressure. 600 mm dia Observed Data derived from item no.1029 of PHED DATA	100.000	metre	111.00	INR Seventy Seven Only	56441.00
1.045	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" Data derived from item no.18.31.5.1 of DAR	4.000	Nos	1665.00	INR One Hundred & Sixty Five Only	6660.00
1.046	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). 300 mm diameter. Class I" Data derived from item no.18.31.6.1 of DAR	3.000	Nos	1930.00	INR One Thousand Nine Hundred & Thirty Only	5790.00
1.047	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). 350 mm diameter. Class I" Observed Data derived from item no.18.31 of DAR	2.000	Nos	2587.00	INR Two Thousand Five Hundred & Eighty Seven Only	5174.00

1.049	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) : 450 mm diameter. Class I Observed Data derived from item no.18.31 of DAR	2.000	Nos	4329.00	INR Four Thousand Three Hundred & Twenty Nine Only	8658.00
1.05	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) : 600 mm diameter. Class I Observed Data derived from item no.18.31 of DAR	1.000	Nos	6539.00	INR Six Thousand Five Hundred & Thirty Nine Only	6539.00
1.051	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 Data derived from item no.18.59.1 of DAR	5.000	Nos	174.00	INR One Hundred & Seventy Four Only	870.00
1.052	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) : 80 mm Double acting Air Valve Data derived from item no.18.59.2 of DAR	5.000	Nos	174.00	INR One Hundred & Seventy Four Only	870.00
1.053	Taking connection from existing line of size 50mm to 110mm, using PVC specials including all earthwork excavation, re-filling etc, including cost of specials	50.000	No	650.00	INR Six Hundred & Fifty Only	32500.00
1.054	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	203.743	cum	218.00	INR Two Hundred & Eighteen Only	44415.97
1.055	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)	44.048	cum	6450.00	INR Six Thousand Four Hundred & Fifty Only	284109.60
1.056	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: 1:5:3 (1 cement : 5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	77.165	cum	8150.00	INR Eight Thousand One Hundred & Fifty Only	628894.75
1.057	Centering and shuttering including strutting, etc. and removal of form for Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	493.680	sqm	497.00	INR Four Hundred & Ninety Seven Only	245358.96
1.058	Centering and shuttering including strutting, etc. and removal of form for Foundations, footings, bases of columns, etc for mass concrete	211.161	sqm	255.00	INR Two Hundred & Fifty Five Only	53846.06
1.059	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	6173.201	kilogram	74.00	INR Seventy Four Only	456816.87

	12 mm cement plaster of mix	267.300	sqm	225.00	INR Two Hundred & Twenty Five Only	60142.50
	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.	8639.000	metre	30.00	INR Thirty Only	259170.00
1.061	Dismantling manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in-Charge: Bituminous road	4319.500	sqm	232.00	INR Two Hundred & Thirty Two Only	1002124.00
1.062	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.	391.500	cum	5460.00	INR Five Thousand Four Hundred & Sixty Only	2137590.00
1.063	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)	37.500	cum	7200.00	INR Seven Thousand Two Hundred Only	270000.00
2	Appendix B - Cost of materials					
2.001	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 250mm.	4.000	No	22500.00	INR Twenty Two Thousand Five Hundred Only	90000.00
2.002	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 300mm.	3.000	No	23500.00	INR Twenty Three Thousand Five Hundred Only	70500.00
2.003	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 350mm.	2.000	No	35500.00	INR Thirty Five Thousand Five Hundred Only	71000.00
2.004	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 450mm.	2.000	No	65000.00	INR Sixty Five Thousand Only	130000.00

	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 600mm.	1.000	No	110000.00	INR One Lakh Ten Thousand Only	110000.00
2.006	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Kinetic Air Valve Type DK, Size 50mm.	5.000	No	3800.00	INR Three Thousand Eight Hundred Only	19000.00
2.007	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Kinetic Air Valve Type DK, Size 80mm.	5.000	No	6000.00	INR Six Thousand Only	30000.00
2.008	Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia	254.000	metre	2250.00	INR Two Thousand Two Hundred & Fifty Only	571500.00
2.009	Supply of DI K9 Pipe Conforming to IS 8329/2000, 250mm Dia.	2528.000	metre	3200.00	INR Three Thousand Two Hundred Only	8089600.00
2.01	Supply of DI K9 Pipe Conforming to IS 8329/2000, 300mm Dia.	1689.000	metre	4000.00	INR Four Thousand Only	6756000.00
2.011	Supply of DI K9 Pipe Conforming to IS 8329/2000, 350mm Dia.	997.000	metre	4400.00	INR Four Thousand Four Hundred Only	4386800.00
2.012	Supply of DI K9 Pipe Conforming to IS 8329/2000, 400mm Dia.	184.000	metre	5200.00	INR Five Thousand Two Hundred Only	956800.00
2.013	Supply of DI K9 Pipe Conforming to IS 8329/2000, 450mm Dia.	741.000	metre	6200.00	INR Six Thousand Two Hundred Only	4594200.00
2.014	Supply of DI K9 Pipe Conforming to IS 8329/2000, 600mm Dia	102.000	metre	9700.00	INR Nine Thousand Seven Hundred Only	989400.00
2.015	Supply & delivery of 400mm DI K9 Double Flanged pipe	15.000	metre	8500.00	INR Eight Thousand Five Hundred Only	127500.00
2.016	Supply & delivery of 350mm DI K9 Double Flanged pipe	15.000	metre	6750.00	INR Six Thousand Seven Hundred & Fifty Only	101250.00
2.017	Supply & delivery of 200mm DI K9 Double Flanged pipe	15.000	metre	3000.00	INR Three Thousand Only	45000.00
2.018	Supply & delivery of 250mm DI K9 Double Flanged pipe	15.000	metre	4250.00	INR Four Thousand Two Hundred & Fifty Only	63750.00

	Supply & delivery of 300mm DI K9 Double Flanged pipe	15,000	metre	5500.00	INR Five Thousand Five Hundred Only	82500.00
2.02	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :	48,090	quintal	22000.00	INR Twenty Two Thousand Only	1057980.00
2.021	Supply of PVC Pipe, 6kg/cm ² , 50mm Dia.	3000.000	metre	75.00	INR Seventy Five Only	225000.00
2.022	Supply of PVC Pipe, 6kg/cm ² , 90mm Dia.	9000.000	metre	200.00	INR Two Hundred Only	1800000.00
2.023	Cost of PVC Specials @ 3%	1,000	L.S	59180.35	INR Fifty Nine Thousand One Hundred & Eighty and Paise Thirty Five Only	59180.35
3	Appendix D - Providing FHTCs ongoing Scheme					
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.	2700.000	Nos	4680.00	INR Four Thousand Six Hundred & Eighty Only	12636000.00

<p>3.003 Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing AC / GI 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.</p>	250,000	Nos	4900.00	INR Four Thousand Nine Hundred Only	1225000.00
<p>3.004 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 6 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 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.</p>	100,000	Nos	4900.00	INR Four Thousand Nine Hundred Only	490000.00

3.005	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.	3150,000	Nos	431.00	INR Four Hundred & Thirty One Only	1357650.00
3.006	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.	3150,000	Nos	357.00	INR Three Hundred & Fifty Seven Only	1124550.00
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.	12000,000	metre	145.00	INR One Hundred & Forty Five Only	1740000.00
3.008	Geo Tagging	3150,000	No	22.00	INR Twenty Two Only	69300.00
3.009	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.	6000,000	metre	30.00	INR Thirty Only	180000.00
3.01	Dismantling manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in-Charge:Bituminous road	1800,000	sqm	250.00	INR Two Hundred & Fifty Only	450000.00
3.011	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)	270,000	cum	7250.00	INR Seven Thousand Two Hundred & Fifty Only	1957500.00
Total in Figures						65703311.00
Rupees Six Crore Fifty Seven Lakh Three Thousand three hundred and eleven only						

SUPERINTENDING ENGINEER