

**KERALA WATER AUTHORITY, PUBLIC HEALTH DIVISION, THRISSUR.**

**ACCEPTED SCHEDULE**

**Work Name:JJM-2020-21,PROVIDING LINE EXTENSION & FHTC AT KANDANASSERY GRAMAPANCHAYATH (PHASE-1)-ADDITIONAL WORKS**

**Contract No: 63/EE/PHD/TSR/21-22**

Sl. No.	Quantity		Item Description	Units	Estimated Rate	Rate in words	Amount in Rs
<b>Appendix. A-Working charges</b>							
1	<b>WORKING CHARGES</b>						
1	255.600	cum	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)	cum	555.51	INR Five Hundred & Fifty Five and Paise Fifty One Only	141988.87
1.001	170.401	cum	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)	cum	806.76	INR Eight Hundred & Six and Paise Seventy Six Only	137472.71
1.002	400.000	metre	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)	metre	28.01	INR Twenty Eight and Paise One Only	11203.20
1.003	600.000	metre	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.	metre	30.44	INR Thirty and Paise Forty Four Only	18264.00
1.004	180.000	sqm	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	sqm	360.94	INR Three Hundred & Sixty and Paise Ninety Four Only	64969.38

Sl. No.	Quantity	Item Description	Units	Estimated Rate	Rate in words	Amount in Rs
1.005	27.000 cum	Construction of granular sub- base by Providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in- Charge. With Material conforming to Grade - I ( size range 75 mm to 0.075 mm) having CBR Value- 30	cum	2963.59	INR Two Thousand Nine Hundred & Sixty Three and Paise Fifty Nine Only	80016.96
1.006	425.000 metre	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.	metre	47.59	INR Forty Seven and Paise Fifty Nine Only	20226.60
1.007	309.700 metre	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.	metre	87.05	INR Eighty Seven and Paise Five Only	26959.08
1.008	117.000 metre	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."	metre	87.05	INR Eighty Seven and Paise Five Only	10184.73
1.009	400.000 metre	Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work65 mm dia nominal bore	metre	842.83	INR Eight Hundred & Forty Two and Paise Eighty Three Only	337130.80
1.01	157.000 metre	Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work40 mm dia nominal bore	metre	568.73	INR Five Hundred & Sixty Eight and Paise Seventy Three Only	89290.92
1.011	132.000 metre	Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work80 mm dia nominal bore	metre	1019.84	INR One Thousand & Nineteen and Paise Eighty Four Only	134618.88
1.012	27.790 cum	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)	cum	7990.86	INR Seven Thousand Nine Hundred & Ninety and Paise Eighty Six Only	222066.03

Sl. No.	Quantity		Item Description	Units	Estimated Rate	Rate in words	Amount in Rs
1.013	2.000	No	Taking connection from the line of size above 100/110 mm dia to 150/160mm dia for providing service connection or connecting to the branch line using PVC/GI/MS Saddle and specials including all labour charges, necessary Earth work excavation, refilling, bailing out water, hire for tools, providing fencing and caution boards etc complete but excluding cost of saddle piece, CID/CIR joints tail pieces and specials.	No	1964.53	INR One Thousand Nine Hundred & Sixty Four and Paise Fifty Three Only	3929.06
1.014	2.000	No	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :40 mm nominal bore	No	798.56	INR Seven Hundred & Ninety Eight and Paise Fifty Six Only	1597.11
1.015	1.000	No	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :65 mm nominal bore	No	1751.62	INR One Thousand Seven Hundred & Fifty One and Paise Sixty Two Only	1751.62
1.016	2.000	No	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :80 mm nominal bore	No	2610.65	INR Two Thousand Six Hundred & Ten and Paise Sixty Five Only	5221.30
1.017	400.000	kilogram	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kilogram	101.29	INR One Hundred & One and Paise Twenty Nine Only	40514.40
1.018	11.160	sqm	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	sqm	335.31	INR Three Hundred & Thirty Five and Paise Thirty One Only	3742.10
1.019	20000.000	per litre	supply of sintex water tank triple layer	per litre	7.50	INR Seven and Paise Fifty Only	150000.00
1.02	5.000	Nos	Replacing the choked / damaged 20mm (3/4 inch) house connection with 15mm (1/2 inch) water meter from existing mains, up to a length of 5m using 25mm Indian Standard Class 6 uPVC pipe and uPVC / Brass specials viz. brass ferrule, Elbow, 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, safely removing & re-fixing existing 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 / tarred / bituminous roads and as per the directions of the department officers.	Nos	4205.55	INR Four Thousand Two Hundred & Five and Paise Fifty Five Only	21027.77
1.021			<b>Appendix.B.Cost of Materials</b>				0.00

Sl. No.	Quantity		Item Description	Units	Estimated Rate	Rate in words	Amount in Rs
2	425.000	metre	Supply of uPVC Pipe, IS 4985: 2000 , 6kg/cm2, 50mm Dia.	metre	66.10	INR Sixty Six and Paise Ten Only	28092.50
2.001	310.000	metre	Supply of uPVC Pipe, IS 4985: 2000 , 6kg/cm2, 75mm Dia..	metre	144.60	INR One Hundred & Forty Four and Paise Sixty Only	44826.00
2.002	117.000	metre	Supply of uPVC Pipe, IS 4985: 2000 , 6kg/cm2, 90mm Dia.	metre	202.30	INR Two Hundred & Two and Paise Thirty Only	23669.10
2.003	1.000	set	Supply of PVC Specials @ 3%	set	2498.00	INR Two Thousand Four Hundred & Ninety Eight Only	2498.00
2.004	1.000	No	Supply of GI specials @5%	No	12852.00	INR Twelve Thousand Eight Hundred & Fifty Two Only	12852.00
2.005			<b>Appendix C-Providing FHTCs</b>				0.00
3	40.000	Nos	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.	Nos	5844.11	INR Five Thousand Eight Hundred & Forty Four and Paise Eleven Only	233764.32

Sl. No.	Quantity		Item Description	Units	Estimated Rate	Rate in words	Amount in Rs
3.001	45.000	Nos	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 but excluding cost of water meter and meter box and excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers.	Nos	4546.97	INR Four Thousand Five Hundred & Forty Six and Paise Ninety Seven Only	204613.74
3.002	500.000	metre	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., hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads, and excluding cost of materials etc., and as per the directions of the department officers.	metre	150.30	INR One Hundred & Fifty and Paise Thirty Only	75151.00
3.003	85.000	Nos	Providing 15mm (1/2 inch) GM Air Valve in the water meter assembly for 20mm connection, using 25mm 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.	Nos	821.39	INR Eight Hundred & Twenty One and Paise Thirty Nine Only	69818.24
3.004	85.000	Nos	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.	Nos	571.36	INR Five Hundred & Seventy One and Paise Thirty Six Only	48565.52

Sl. No.	Quantity		Item Description	Units	Estimated Rate	Rate in words	Amount in Rs
3.005	45.000	metre	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.	metre	30.44	INR Thirty and Paise Forty Four Only	1369.80
3.006	13.500	sqm	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	sqm	360.94	INR Three Hundred & Sixty and Paise Ninety Four Only	4872.70
3.007	0.900	cum	Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material with in 50 metres lead as per direction of Engineer -in-Charge.	cum	2983.59	INR Two Thousand Nine Hundred & Eighty Three and Paise Fifty Nine Only	2685.23
3.008	3.600	cum	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)	cum	7990.86	INR Seven Thousand Nine Hundred & Ninety and Paise Eighty Six Only	28767.10
3.009	85.000	No	Geo tagging	No	20.00	INR Twenty Only	1700.00
<b>Total</b>							2305420.77
						Tender less	12.33%
							<b>2,021,162</b>
<b>Accepted PAC</b>							
<b>INR Twenty Lakh Twenty One Thousand One Hundred &amp; Sixty Two Only</b>							
<b>Executive Engineer</b>							