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## KERALA WATER AUTHORITY

### Office of the Superintending Engineer Public Health Circle, Kottayam

No. PHCK/A3/1515/2019/Ph2/ER1

Dated: 23.12.2021

From

The Superintending Engineer

To

M. S. Sanilkumar  
Sreebhavan, South Pampady  
Kottayam 686521

Sir,

Sub:- JJM 2020-2021-WSS To Erumely-Package 1-Providing Additional Distribution Lines /Extending Existing Distribution Lines in Zone II,IV, & V and Providing FHTC's, Supply and Installation of Standby Pumpset To Zone II - Work Order Issuing-reg:-

Ref:- 1. This office E-tender No. 10/SE/PHCK/2021-22 with due date: 14/12/2021  
2. This office proceedings of even No. dated 23/12/2021

#### Registered with A/d

With reference to the above you are hereby informed that your tender for the above works is accepted at **Rs. 2,12,72,450/-** (Rupees Two Crore Twelve Lakh Seventy Two Thousand Four Hundred and Fifty Only) (Excluding GST) which is 14.31% below the TPAC of Rs. 2,48,24,892/- as per the reference cited 2<sup>nd</sup>.

You are directed to attend this office within fourteen days from the date of receipt of this order with required stamp paper worth **Rs.21,300/-** (Rupees Twenty One Thousand Three Hundred Only) to execute an agreement and start the work within a week after getting necessary instructions from the Superintending Engineer, P.H.Circle, Kerala Water Authority, Kottayam. Penal provisions as per G.O(P) No.84/97 PW & T dated: 19.08.97 will be imposed of, if the agreement is not executed within the date specified above.

1. Before executing the agreement on stamp paper worth **Rs. 21,300/-** (Rupees Twenty One Thousand Three Hundred Only), you should remit **Rs. 6,38,200/-** (Minimum **Rs.3,19,100/-** in the form of Treasury Fixed Deposit and balance in the form of Bank guarantee) towards performance guarantee in the office of the Superintending Engineer, duly pledged in favour of the Superintending Engineer, P.H.Circle, Kerala Water Authority, Kottayam for the fulfillment of the contract. Additional Performance Guarantee is waived for the low quoted items on the condition that the bidder shall furnish an undertaking to execute all low quoted items in full as per contract terms ( As per G.O.(P) No. 7/2021/Fin dated 07/01/2021 of GoK)
2. Any failure in this direction will be liable to result in the forfeiture of special and permanent Earnest Money and the cancellation of the proposed contract. The contractor shall be liable to pay to the Kerala Water Authority the entire cost that may be caused in the Authority by the re-tender or the re-arrangement of the work or otherwise consequent on the contractor's failure to



execute the agreement or execute the work as provided for in the notice inviting tenders and all such loss shall be recovered from the contractor under the provision of the Revenue Recovery Act or Otherwise Vide G.O.(P)245/76/PW dated:19.11.1986.

3. It must be understood that on no account the rates once fixed will be increased.
4. The work should be completed in all respects within 6 (Six) months from the date of award of work.
- 5 All the terms and conditions of the notice inviting the tenders (NIT and BoQ) shall be binding on the contract.
- 6 The Original/attested copy of valid KWA License shall be produced in order to execute the agreement
- 7 The original MoU with pipe manufactures shall be produced in order to execute the agreement
- 8 The original KWA Plumbing license or attested copy of the same possessed by the plumber with whom MoU is executed shall be produced in order to execute the agreement
- 9 The original MoU with manufacturers of pumpsets and design curves shall be produced in order to execute the agreement

Yours faithfully,  
Mohamed Sedeque. P  
Superintending Engineer

Copy To

- 1.The Executive Engineer, Project Division, KWA, Kottayam for information and necessary action. It should be ensured that the total expenditure of the project will not exceed the AS amount . If required revised AS shall be obtained.
- 2.To file.
- 3.To agreement.

Encl:

Agreement Schedule



Validate

Print

Help

**Percentage BoQ**

Tender Inviting Authority: Superintending Engineer, Kerala Water Authority, P. H. Circle Kottayam

Work Name: JIM 2020-2021-WSS To Erumely-Package 1-Providing Additional Distribution Lines /Extending Existing Distribution Lines in Zone II,IV, &amp; V and Providing FHTC's, Supply and Installation of Standby Pumpset To Zone II

E-tender No: 10/SE/PHCK/2021-22

Name of the Bidder/  
Bidding Firm /  
Company :

sanilkumar.m.s

**AGREEMENT SCHEDULE**

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including all Taxes except GST in Rs. P	TOTAL AMOUNT In Words	TEXT #
1	2	4	5	6	53		55
1	Extension of existing distribution lines and providing FHTC&apos;s in Zone II,IV and V-Materials						
1.001	Supply of uPVC Pipe, IS 4985: 2000 , 10kg/cm2, 90mm Dia.	800.000	metre	324.25	259400.00	INR Two Lakh Fifty Nine Thousand Four Hundred Only	
1.002	Supply of PE Pipe, PE100, PN10, 90mm dia, conforming to IS 4984/2016.	3200.000	metre	267.15	854880.00	INR Eight Lakh Fifty Four Thousand Eight Hundred & Eighty Only	
1.003	Add 3% cost of pipe for PVC specials. Such as Bends, Tee, Coupler, Tail piece, End cap etc	259400.000	L.S	0.03	7782.00	INR Seven Thousand Seven Hundred & Eighty Two Only	
1.004	Add 2% cost of pipe for HDPE specials. Such as Bends, Tee, Coupler, Tail piece, End cap etc	854880.000	L.S	0.02	17097.60	INR Seventeen Thousand & Ninety Seven and Paise Sixty Only	
1.005	Supply of G.I pipes 40 mm dia	3000.000	metre	396.19	1188570.00	INR Eleven Lakh Eighty Eight Thousand Five Hundred & Seventy Only	
1.006	Supply of G.I. pipes 65 mm dia	2000.000	metre	625.97	1251940.00	INR Twelve Lakh Fifty One Thousand Nine Hundred & Forty Only	
1.007	Supply of G.I. pipes 80 mm dia	3500.000	metre	800.30	2801050.00	INR Twenty Eight Lakh One Thousand & Fifty Only	
1.008	Add 5% Cost of pipe for GI specials. Such as Bends, Tee, Coupler, Tail piece, End cap etc	5241560.000	No	0.05	262078.00	INR Two Lakh Sixty Two Thousand & Seventy Eight Only	
1.009	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm.	30.000	No	966.75	29002.50	INR Twenty Nine Thousand & Two and Paise Fifty Only	

Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including all Taxes except GST in Rs. P	TOTAL AMOUNT In Words
1.01	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 80mm.	12.000	No	3131.05	37572.60	INR Thirty Seven Thousand Five Hundred & Seventy Two and Paise Sixty Only
1.011	Supply of CI Air Valve with Flanges, Conforming to IS 14845 - 2000, Kinetic Air Valve Type DS1, Size 50mm.	4.000	No	2913.15	11652.60	INR Eleven Thousand Six Hundred & Fifty Two and Paise Sixty Only
1.012	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 125mm.	3.000	No	5249.35	15748.05	INR Fifteen Thousand Seven Hundred & Forty Eight and Paise Five Only
1.013	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.	3.000	No	6770.65	20311.95	INR Twenty Thousand Three Hundred & Eleven and Paise Ninety Five Only
1.014	Providing and laying D.I Specials of Class K-12 suitable for mechanical jointing as per IS : 9523 :	1.320	quintal	21277.92	28086.72	INR Twenty Eight Thousand & Eighty Six and Paise Seventy Two Only
2	<b>Extension of existing distribution lines and providing FHITC&amp;apos;s in Zone II,IV and V-Working charge</b>					
2.001	Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.	4900.000	metre	30.63	150087.00	INR One Lakh Fifty Thousand & Eighty Seven Only
2.002	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	132.000	cum	2057.94	271648.08	INR Two Lakh Seventy One Thousand Six Hundred & Forty Eight and Paise Eight Only
2.003	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc. disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	210.000	sqm	111.40	23394.00	INR Twenty Three Thousand Three Hundred & Ninety Four Only
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 :All kinds of soil (Ref. Item No. 2.10.1 of DSR)	719.808	cum	558.99	402365.47	INR Four Lakh Two Thousand Three Hundred & Sixty Five and Paise Forty Seven Only
2.005	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)	343.712	cum	811.82	279032.28	INR Two Lakh Seventy Nine Thousand & Thirty Two and Paise Twenty Eight Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including all Taxes except GST in Rs. P	TOTAL AMOUNT In Words
2.006	"Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides; ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m. Medium Rock (blasting prohibited) New Data derived from DAR	194.272	cum	1350.01	262269.14	INR Two Lakh Sixty Two Thousand Two Hundred & Sixty Nine and Paise Fourteen Only
2.007	"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) (Ref. Item No. 2.13.3 of DSR)	104.609	cum	1566.06	163923.97	INR One Lakh Sixty Three Thousand Eight Hundred & Twenty Three and Paise Ninety Seven Only
2.008	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)	2000.000	metre	28.12	56240.00	INR Fifty Six Thousand Two Hundred & Forty Only
2.009	Fencing 1.50m high with two rows of casuarina poles (girth 15cm to 24cm) tied with coir yarn on vertical casuarina pole (girth 15cm to 24cm) fixed at 1.5m intervals. NEW DATA (Prepared based on PWD SDB - Item No.1009)	50.000	metre	96.77	4838.50	INR Four Thousand Eight Hundred & Thirty Eight and Paise Fifty Only
2.01	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete (Measurements to be taken of the face area timbered). Depth not exceeding 1.5m	49.500	sqm	153.90	7618.05	INR Seven Thousand Six Hundred & Eighteen and Paise Five Only
2.011	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), 90 mm nominal outer dia pipes."	800.000	metre	87.59	70072.00	INR Seventy Thousand & Seventy Two Only
2.012	"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. 90 mm.LD.HDPE pipe."	3200.000	metre	93.87	300384.00	INR Three Lakh Three Hundred & Eighty Four Only
2.013	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 80 mm dia nominal bore Data derived from item no.18.12.8 of DAR Data for 10 m	3500.000	metre	209.91	734685.00	INR Seven Lakh Thirty Four Thousand Six Hundred & Eighty Five Only
2.014	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 65 mm dia nominal bore Data derived from item no.18.12.7 of DAR Data for 10 m	2000.000	metre	209.57	419140.00	INR Four Lakh Nineteen Thousand One Hundred & Forty Only



Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including all Taxes except GST in Rs. P	TOTAL AMOUNT In Words
2.015	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, 40 mm dia nominal bore Data derived from item no.18.12.5 of DARData for 10 m	3000.000	metre	168.16	504480.00	INR Five Lakh Four Thousand Four Hundred & Eighty Only
2.016	Welding GI pipe and special by gas or electric plant for three run welding including cost of welding rod / gas, all labour and hire charges of tools etc complete. (Ref Spec Code : 100.37.3)and using Galvanizing spray for the prevention of corrosion. 	5329.200	cm	25.35	135095.22	INR One Lakh Thirty Five Thousand & Ninety Five and Paise Twenty Two Only
2.017	Grinding the cut edges / welded portions in GI pipe and specials by grinding machine including all labour and hire charges of tools etc complete. (Ref Spec Code : 100.37.2)	5329.200	cm	2.24	11937.41	INR Eleven Thousand Nine Hundred & Thirty Seven and Paise Forty One Only
2.018	Cutting GI pipe and specials by gas cutting including cost of gas, all labour and hire charges of tools etc complete. (Ref Spec Code : 100.37.1)	5329.200	cm	3.17	16893.56	INR Sixteen Thousand Eight Hundred & Ninety Three and Paise Fifty Six Only
2.019	Cutting of 250 mm AC pipes of all classes diametrically, the cut being diametrically perpendicular to the axis of pipe and smoothing of the cut ends etc complete. (Ref. No. 1103(6) of Technical Circular)	10.000	No	334.96	3349.60	INR Three Thousand Three Hundred & Forty Nine and Paise Sixty Only
2.02	Joining 250 mm A. C. pipes laid to lines and levels in the trenches using C. I. detachable or any available type of joints after cleaning the ends, centering the pipes inserting the joints and tightening including conveying the materials within initial lead and other sundries etc. complete to make a water tight joint capable to withstand the required pressure (excluding cost of CID Joint). (Ref. No. 678, PHED Data Book)	10.000	joint	235.63	2356.30	INR Two Thousand Three Hundred & Fifty Six and Paise Thirty Only
2.021	Cutting of 150 mm AC pipes of all classes diametrically, the cut being diametrically perpendicular to the axis of pipe and smoothing of the cut ends etc complete. (Ref. No. 1103(4) of Technical Circular)	10.000	No	232.29	2322.90	INR Two Thousand Three Hundred & Twenty Two and Paise Ninety Only
2.022	Joining 150 mm A. C. pipes laid to lines and levels in the trenches using C. I. detachable or any available type of joints after cleaning the ends, centering the pipes inserting the joints and tightening including conveying the materials within initial lead and other sundries etc. complete to make a water tight joint capable 70 withstand the required pressure(excluding cost of CID Joint). (Ref. No. 674, PHED Data Book)	10.000	joint	163.66	1636.60	INR One Thousand Six Hundred & Thirty Six and Paise Sixty Only
2.023	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:80 mm diameter pipe	20.000	Nos	200.36	4007.20	INR Four Thousand & Seven and Paise Twenty Only
2.024	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:125 mm diameter pipe	8.000	Nos	329.71	2637.68	INR Two Thousand Six Hundred & Thirty Seven and Paise Sixty Eight Only
2.025	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:150 mm diameter pipe	12.000	Nos	387.83	4653.96	INR Four Thousand Six Hundred & Fifty Three and Paise Ninety Six Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including all Taxes except GST in Rs. P	TOTAL AMOUNT In Words
2.026	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.	715.000	Nos	5867.31	4195126.65	INR Forty One Lakh Ninety Five Thousand One Hundred & Twenty Six and Paise Sixty Five Only
2.027	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.	675.000	Nos	6067.31	4095434.25	INR Forty Lakh Ninety Five Thousand Four Hundred & Thirty Four and Paise Twenty Five Only
2.028	Providing additional length of house connection pipe using 25mm 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.	500.000	metre	187.56	93780.00	INR Ninety Three Thousand Seven Hundred & Eighty Only
2.029	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.	13000.000	metre	175.19	2277470.00	INR Twenty Two Lakh Seventy Seven Thousand Four Hundred & Seventy Only



Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including all Taxes except GST in Rs. P	TOTAL AMOUNT In Words
2.03	Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work 20 mm dia nominal bore	500.000	metre	336.12	168060.00	INR One Lakh Sixty Eight Thousand & Sixty Only
2.031	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.	500.000	Nos	376.32	188160.00	INR One Lakh Eighty Eight Thousand One Hundred & Sixty Only
2.032	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.	1390.000	Nos	574.04	797915.60	INR Seven Lakh Ninety Seven Thousand Nine Hundred & Fifteen and Paise Sixty Only
2.035	Providing Geotagging for FHTCs	1390.000	No	20.00	27800.00	INR Twenty Seven Thousand Eight Hundred Only
2.036	Demolishing stone rubble masonry 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:in cement mortar	30.000	cum	2077.91	62337.30	INR Sixty Two Thousand Three Hundred & Thirty Seven and Paise Thirty Only
2.037	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:->Cement mortar 1:6 (1 cement : 6 coarse sand)/ Department rubble	30.000	cum	5262.64	157879.20	INR One Lakh Fifty Seven Thousand Eight Hundred & Seventy Nine and Paise Twenty Only
2.038	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.	180.000	cum	357.40	64332.00	INR Sixty Four Thousand Three Hundred & Thirty Two Only
2.039	Supply ,stacking,spreading and consolidating of Quarry Muck in the trench of pipe line, including carriage, loading ,unloading & stacking up to any lead.	50.000	cum	549.44	27472.00	INR Twenty Seven Thousand Four Hundred & Seventy Two Only
3	<b>Extension of existing distribution lines and providing FHTC&amp;apos;s in Zone II,IV and V-Valve chamber and road restoration of panchayath roads</b>					
3.001	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	78.547	cum	215.37	16916.67	INR Sixteen Thousand Nine Hundred & Sixteen and Paise Sixty Seven Only
3.002	Fencing 1.50m high with two rows of casuarina poles (girth 15cm to 24cm) tied with coir yarn on vertical casuarina pole (girth 15cm to 24cm) fixed at 1.5m intervals.NEW DATA (Prepared based on PWD SDB - Item No.1009	309.600	metre	96.77	29959.99	INR Twenty Nine Thousand Nine Hundred & Fifty Nine and Paise Ninety Nine Only
3.003	Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete (Measurements to be taken of the face area timbered).Depth not exceeding 1.5 m	23.921	sqm	164.00	3923.04	INR Three Thousand Nine Hundred & Twenty Three and Paise Four Only
3.004	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)	0.801	cum	8040.95	6440.80	INR Six Thousand Four Hundred & Forty and Paise Eighty Only



Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including all Taxes except GST in Rs. P	TOTAL AMOUNT In Words
3.005	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:1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	34.138	cum	8642.31	295031.18	INR Two Lakh Ninety Five Thousand & Thirty One and Paise Eighteen Only
3.006	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	118.140	sqm	337.42	39862.80	INR Thirty Nine Thousand Eight Hundred & Sixty Two and Paise Eighty Only
3.007	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	140.400	sqm	721.70	101326.68	INR One Lakh One Thousand Three Hundred & Twenty Six and Paise Sixty Eight Only
3.008	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	2730.400	kilogram	98.92	270091.17	INR Two Lakh Seventy Thousand & Ninety One and Paise Seventeen Only
3.009	Supplying and fixing C.I with cover and frame for manholes:<b>560 mm diameter ( heavy duty) the weight to be not less than 208 kg	18.000	No	14561.63	262109.34	INR Two Lakh Sixty Two Thousand One Hundred & Nine and Paise Thirty Four Only
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:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	37.500	cum	7413.74	278015.25	INR Two Lakh Seventy Eight Thousand & Fifteen and Paise Twenty Five Only
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:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	75.000	cum	6857.61	514320.75	INR Five Lakh Fourteen Thousand Three Hundred & Twenty and Paise Seventy Five Only
5	<b>Extension of existing distribution lines and providing FHTC&amp;apos;s in Zone II,IV and V-Fitting Airvalves and sluice valves</b>					
5.001	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 Data derived from item no.18.59.of DAR	30.000	Nos	141.35	4240.50	INR Four Thousand Two Hundred & Forty and Paise Fifty Only
5.002	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	4.000	Nos	220.96	883.84	INR Eight Hundred & Eighty Three and Paise Eighty Four Only
5.003	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end); 25 mm nominal bore	30.000	No	588.88	17666.40	INR Seventeen Thousand Six Hundred & Sixty Six and Paise Forty Only
5.004	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end); 50 mm nominal bore	4.000	No	1029.51	4118.04	INR Four Thousand One Hundred & Eighteen and Paise Four Only
5.005	"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); 80 mm diameter. Class I"Observed Data derived from item no.18.31.of DAR	12.000	Nos	591.67	7100.04	INR Seven Thousand One Hundred and Paise Four Only
5.006	"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); 125 mm diameter. Class I"Data derived from item no.18.31.2.1 of DAR	3.000	Nos	995.40	2986.20	INR Two Thousand Nine Hundred & Eighty Six and Paise Twenty Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including all Taxes except GST in Rs. P	TOTAL AMOUNT In Words
5.007	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>Data derived from item no.18.31.3.1 of DAR	3,000	Nos	1208.24	3624.72	INR Three Thousand Six Hundred & Twenty Four and Paise Seventy Two Only
6						
6.001	<b>Supply and Installation of Standby Pumps to Zone II</b> Supply, Installation, Testing and Commissioning of suitable rating KWA approved make, Slow speed Centrifugal Pump set in vertical orientation having min 70% Efficiency, Bronze impeller & SS shaft for Discharge 5.21 lps, head 120 m. Positive suction, coupled to suitable electric motor with efficiency class IE 2 or more and accessories like fully automatic star delta starter, control panel with MCCB isolation & Interlocking arrangement with existing pumps, CI Double flanged Sluice valve with ISI mark, PN 1.6 for Suction and delivery, CI Double flanged non return valve, PN1.6 with ISI mark, 150mm Glycerine filled pressure gauge with stopcock/valve, Suction and delivery piping with suitable sized MS piping having min 8mm thick. Installed in suitable RCC foundation & Providing suitable supports to valves and pipings, Providing all electrical connections & Earthing as per IE rules etc complete for pumping Clear water from CW pumpphouse at WTP to GLSR at Kodithottam-as per latest KWA circular about pumps.	1,000	set	190368.12	190368.12	INR One Lakh Ninety Thousand Three Hundred & Sixty Eight and Paise Twelve Only
<b>Total in Figures</b>					<b>24824892.47</b>	INR Two Crore Forty Eight Lakh Twenty Four Thousand Eight Hundred & Ninety Two and Paise Forty Seven Only
<b>Quoted Rate in Figures</b>			<b>Less (-)</b>	<b>14.31%</b>	<b>21272450.36</b>	INR Two Crore Twelve Lakh Seventy Two Thousand Four Hundred & Fifty Only
<b>Quoted Rate in Words</b>			<b>INR Two Crore Twelve Lakh Seventy Two Thousand Four Hundred &amp; Fifty Only</b>			

**CONTRACTOR****SUPERINTENDING ENGINEER**