

**BY SPEED POST WITH ACK.DUE**



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## KERALA WATER AUTHORITY

No. PHC/CHN/JJM/13573/2020

Office of the Superintending Engineer,  
P.H. Circle, Kochi-11

Dated:01.01.2021

From

The Superintending Engineer.

To

Sri.M.V. Viswanathan  
Mecheril House, Edayar  
Aluva - 683502

Sir,

Sub:- JJM- Ernakulam District -Multi Village Scheme – RWSS to Karukutty and Mookkannoor Panchayath – Replacement of 315 mm PVC pipe to 300 mm DI K(9) pipe, Extension of pipe line, providing FHTC and allied works in Karukutty Panchayath - Selection notice Issuing -reg

- Ref: 1) This office E-Tender No. 24/2020-21/SE/PHC/CHN dated 24.09.2020  
2) Minutes of the First State Level Scheme Sanctioning Committee (SLSSC) Meeting of Jal Jeevan Mission Held on 13.08.2020  
3) Gazette notification 3111(1)/Leg A2/2018 /LAW Dated 31-03-2018 Kerala State Legislature ( Kerala Finance Act 2018)  
4) GO (Rt) No. 541/2020/WRD dated Thiruvananthapuram dated 21.08.2020.  
5) Proceedings No. KWA/CE/CR/D5/CHN/2982/JJM/2020 Dated 29.12.2020

With reference to the above, **Sri. M.V. Viswanathan, Mecheril House, Edayar, Aluva**, is hereby informed that the tender submitted for the subject work has been accepted for an amount of **Rs.15,95,27,083/- (Rupees Fifteen Crores Ninety Five Lakhs Twenty Seven Thousand and Eighty Three Only)** which is illustrated in the accompanying schedule. You are directed to attend this office **within 14 days on receipt of this order** with required stamp paper and receipted chelan for the security deposit mentioned below and execute an agreement and start the work within a week after getting necessary instruction from the **Executive Engineer, PH Division, Aluva**.

- 1) Before executing the agreement on stamp paper, the contractor should deposit a total security of **Rs.79,76,400/- (Rupees Seventy Nine Lakhs Seventy Six Thousand and Four Hundred Only)**, out of which at least **Rs.39,88,200/-** may be deposited in the Treasury Savings Account of Government of Kerala and the rest in the form of Bank guarantee / Treasury Savings account of Government of Kerala/National savings bank / Post office term deposit duly pledged in favour of Superintending Engineer, Kerala Water Authority, PH Circle, Kochi-11 valid upto a minimum period of 2 years. for the fulfillment of the contract.

- 2) Vide reference 3<sup>rd</sup> cited, stamp paper of cost **Rs.1,59,600/-** which is 0.1% of the contract value to be submitted to execute the agreement.
- 3) Any failure in this direction will be liable to result to forfeiture of his special and permanent earnest money and the cancellation of the proposed contract and the contractor shall be liable to pay the Authority the entire loss that may be caused to authority by the re-tender or re-arrangement of the work or otherwise consequent on the contractor's failure to execute the agreement or execute the work as provided in the Notice Inviting Tenders and all such loss shall be recovered from him under the provisions of the Revenue Recovery Act or otherwise.
- 4) It must be understood that in any account the rates once fixed will not be increased.
- 5) The work should be completed within **Six months** from the date of selection notice.
- 6) All the materials shall be supplied by the contractor in a phased manner as per the phased supply schedule prepared by the agreement authority, based on the recommendation from the Executive Engineer as per road cutting sanction by other agencies.
- 7) No mobilization advance will be granted for the execution of this work.
- 8) While making payment for the bill to be made to the contractor for the total value of the work rate plus the applicable GST rate.
- 9) Work programme chart shall be submitted by the contractor at the commencement of the work
- 10) All the terms and conditions of the Notice Inviting Tenders and tender shall be binding on the Contractor.
- 11) No. extra items and excess quantity are to be carried out without prior written sanction from this office.
- 12) Adequate precautions shall be taken to avoid accidents and no portion of trench shall be left unfilled without proper barricading.
- 13) Basic information of consumers in prescribed format of KWA should be submitted along with the bill submission format of the above will be attached with the agreement.
- 14) Renewal of Bank guarantee should be ensured till final completion of the project.

**Yours faithfully,**

Acc: Accepted BOQ. – 1no.

**Superintending Engineer**

Copy submitted to the Chief Engineer, Central Region, KWA, Kochi for information  
Copy submitted to the FM & CAO, KWA Thiruvananthapuram for favour of information  
Copy submitted to the RAO, KWA, Thiruvananthapuram for favour of information  
Copy with copy of accompaniments to the Executive Engineer, **PH Division, Aluva** for information and necessary action. You are directed to report (schedule for phased supply of pipes) based on road cutting sanction details from other agencies.  
Copy with copy of accompaniments to Assistant Executive Engineer, PH Sub Division, Angamaly for information.  
Copy to Agreement.  
Copy to file.

**KERALA WATER AUTHORITY**  
**P.H CIRCLE, Kochi-11**

ACCEPTED BOQ

Name of Work: Jal Jeevan Mission- Ernakulam District-Multi Village Scheme - Replacement of 315 mm PVC pipe to 300 mm DI K9 pipe, Extension of pipe line, Providing Functional House hold Tap Connections in Karukutty Panchayath and allied works

E-Tender No. 24/2020-21/SE/PHC/CHN

<b><u>PRICE SCHEDULE</u></b>						
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )						
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
1	<b>Part I-Providing FHTC</b>					
1.01	Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains up to 1.10 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 watermeter 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.	1603.000	Nos	4855.71	7783703.13	INR Seventy Seven Lakh Eighty Three Thousand Seven Hundred & Three and Paise Thirteen Only

1.02	<p>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 6uPVC 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 jointsetc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main linetracing 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 costof materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class BMultijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and asper the direction of the departmental officers.</p>	1603.000	nos	5055.71	8104303.13	INR Eighty One Lakh Four Thousand Three Hundred & Three and Paise Thirteen Only
1.03	<p>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.</p>	55000.000	m	127.28	7000400.00	INR Seventy Lakh Four Hundred Only
1.04	<p>Providing 15mm (1/2 inch) GM 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.</p>	3206.000	nos	761.91	2442683.46	INR Twenty Four Lakh Forty Two Thousand Six Hundred & Eighty Three and Paise Forty Six Only
1.05	<p>Providing 15mm (1/2 inch) GM Check 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.</p>	3206.000	nos	446.41	1431190.46	INR Fourteen Lakh Thirty One Thousand One Hundred & Ninety and Paise Forty Six Only

1.06	<p>Providing 20mm (3/4 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 25mm 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>	1603.000	nos	5421.18	8690151.54	INR Eighty Six Lakh Ninety Thousand One Hundred & Fifty One and Paise Fifty Four Only
1.07	<p>Providing 20mm (3/4 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 25mm 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>	1602.000	nos	5621.18	9005130.36	INR Ninety Lakh Five Thousand One Hundred & Thirty and Paise Thirty Six Only
1.08	<p>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</p>	72000.00	m	135.24	9737280.00	INR Ninety Seven Lakh Thirty Seven Thousand Two Hundred & Eighty Only

1.09	Providing 20mm (3/4 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	3205.00	Nos	982.07	3147534.35	INR Thirty One Lakh Forty Seven Thousand Five Hundred & Thirty Four and Paise Thirty Five Only
1.10	Providing 20mm (3/4 inch) GM Check 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	3205.000	Nos	647.92	2076583.60	INR Twenty Lakh Seventy Six Thousand Five Hundred & Eighty Three and Paise Sixty Only
1.11	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.	3206.00	Nos	425.18	1363127.08	INR Thirteen Lakh Sixty Three Thousand One Hundred & Twenty Seven and Paise Eight Only
1.12	Providing 15mm PVC Tap in the water meter assembly for 20mm connection, using 25mm 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.	3205.00	nos	449.95	1442089.75	INR Fourteen Lakh Forty Two Thousand & Eighty Nine and Paise Seventy Five Only
1.13	Towards charges for Geo-tagging of FHTC including the hire charges for GPS and cost of labour etc complete as per the directions of the departmental officers in charge	6411.000	nos	20.00	128220.00	INR One Lakh Twenty Eight Thousand Two Hundred & Twenty Only
1.14	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	17500.000	sqm	247.61	4333175.00	INR Forty Three Lakh Thirty Three Thousand One Hundred & Seventy Five Only
1.15	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)	45.000	cum	1394.77	62764.65	INR Sixty Two Thousand Seven Hundred & Sixty Four and Paise Sixty Five Only
1.16	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)	990.000	cum	7668.70	7592013.00	INR Seventy Five Lakh Ninety Two Thousand & Thirteen Only
1.17	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 - III ( size range 26.5 mm to 0.075 mm) having CBR Value - 20	1950.000	cum	2701.98	5268861.00	INR Fifty Two Lakh Sixty Eight Thousand Eight Hundred & Sixty One Only

1.18	Supply ,stacking, spreading and consolidating of Quarry Muck in the trench of pipe line, including carriage, loading ,unloading & stacking up to any lead.	1950.000	cum	524.98	1023711.00	INR Ten Lakh Twenty Three Thousand Seven Hundred & Eleven Only
2	<b>Part IV- PART B - Replacement of 315 mm PVC pipe to 300 mm DI K9 pipe, Extension of pipe line, and allied works .</b>					
2.01	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	11600.000	sqm	247.61	2872276.00	INR Twenty Eight Lakh Seventy Two Thousand Two Hundred & Seventy Six Only
2.02	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.	250.000	sqm	75.47	18867.50	INR Eighteen Thousand Eight Hundred & Sixty Seven and Paise Fifty Only
2.03	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 .	12425.000	cum	408.70	5078097.50	INR Fifty Lakh Seventy Eight Thousand & Ninety Seven and Paise Fifty Only
2.04	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 ."	7050.000	cum	575.85	4059742.50	INR Forty Lakh Fifty Nine Thousand Seven Hundred & Forty Two and Paise Fifty Only
2.05	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.	12000.000	m	22.30	267600.00	INR Two Lakh Sixty Seven Thousand Six Hundred Only
2.06	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	6000.000	m	74.89	449340.00	INR Four Lakh Forty Nine Thousand Three Hundred & Forty Only

2.07	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	5250.000	m	146.83	770857.50	INR Seven Lakh Seventy Thousand Eight Hundred & Fifty Seven and Paise Fifty Only
2.08	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	1170.000	joint	349.73	409184.10	INR Four Lakh Nine Thousand One Hundred & Eighty Four and Paise Ten Only
2.09	Labour for cutting C.I. pipe with steel saw.300 mm diameter C.I. pipe	50.000	each	444.57	22228.50	INR Twenty Two Thousand Two Hundred & Twenty Eight and Paise Fifty Only
2.10	Fabricating MS pipes of size 300mm (ID) using 8 mm thick MS plate including cost and conveyance charges of MS plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under coat of primer etc. complete: For pipes fabricated with 8 mm thick MS plate	200.000	m	6601.39	1320278.00	INR Thirteen Lakh Twenty Thousand Two Hundred & Seventy Eight Only
2.11	Fabricating MS flanges of diameter 300 mm using 12 mm thick MS plate including cost and conveyance charges of MS plate. all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under coat of primer etc. complete: For pipes fabricated with 8mm thick MS plates.	50.000	nos	2478.31	123915.50	INR One Lakh Twenty Three Thousand Nine Hundred & Fifteen and Paise Fifty Only
2.12	Cutting 300 mm (ID) MS pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire charges of tools etc. complete: For pipes fabricated with 8mm thick MS plates.	100.000	nos	320.22	32022.00	INR Thirty Two Thousand & Twenty Two Only
2.13	Welding 300 mm (ID) MS pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods ,all labour and hire charges of tools etc. complete: For pipes fabricated with 8mm thick MS plates.	100.000	nos	1186.59	118659.00	INR One Lakh Eighteen Thousand Six Hundred & Fifty Nine Only
2.14	Grinding cut and weld edges of 300 mm (ID) MS pipes during fabrication work including all labour and hire charges of tools etc. complete: For pipes fabricated with 8mm thick MS plates	100.000	nos	153.15	15315.00	INR Fifteen Thousand Three Hundred & Fifteen Only
2.15	Providing flanged joints to double flanged C.I./D.I pipes and specials, including testing of joints:300 mm diameter pipe	50.000	Nos	525.08	26254.00	INR Twenty Six Thousand Two Hundred & Fifty Four Only
2.16	Testing 300mm DI/CI pipeline with potable water to the required test pressure. 300 mm dia .	5450.000	m	46.46	253207.00	INR Two Lakh Fifty Three Thousand Two Hundred & Seven Only
2.17	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),90mm nominal diameter pipes	19000.000	m	59.24	1125560.00	INR Eleven Lakh Twenty Five Thousand Five Hundred & Sixty Only



2.18	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). 110mm nominal outer dia pipes.	5000.000	m	87.29	436450.00	INR Four Lakh Thirty Six Thousand Four Hundred & Fifty Only
2.19	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertion etc. (the tail pieces if required will be paid separately):100 mm diameterClass II	7.000	Nos	5161.59	36131.13	INR Thirty Six Thousand One Hundred & Thirty One and Paise Thirteen Only
2.20	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertion etc. (the tail pieces if required will be paid separately):300 mm diameterClass II	7.000	Nos	31873.59	223115.13	INR Two Lakh Twenty Three Thousand One Hundred & Fifteen and Paise Thirteen Only
2.21	Providing and fixing C.I double acting air valve of approved quality with bolts, nuts, rubber insertion etc. complete ( The tail pieces, tapers etc. if required will be paid separately):80 mm dia	200.000	Nos	7903.44	1580688.00	INR Fifteen Lakh Eighty Thousand Six Hundred & Eighty Eight Only
2.22	Interconnecting the existing 50 mm to 450 mm AC/PVC line to the newly laid 300 mm DI Pipe including cutting and dismantling the existing pipeline to the required length and providing suitable size tale piece and CID Joints other specials including cost of necessary earthwork excavation.	2.000	Nos	8400.23	16800.46	INR Sixteen Thousand Eight Hundred and Paise Forty Six Only
2.23	Shifting water connection from the existing line to the newly laid line by supplying and fitting suitable saddle clamp ,GI bend, Union , Elbow, Coupling, Elbow, Coupling reducer Barrel peice, GM Valve etc complete	250.000	Nos	5541.13	1385282.50	INR Thirteen Lakh Eighty Five Thousand Two Hundred & Eighty Two and Paise Fifty Only
2.24	Supply ,stacking,spreading and consolidating of Quarry Muck in the trench of pipe line, including carriage, loading ,unloading & stacking up to any lead.	3525.000	cum	524.98	1850554.50	INR Eighteen Lakh Fifty Thousand Five Hundred & Fifty Four and Paise Fifty Only
2.25	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)	1670.188	cum	7668.70	12808170.72	INR One Crore Twenty Eight Lakh Eight Thousand One Hundred & Seventy and Paise Seventy Two Only
2.26	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost.)	150.000	sqm	292.65	43897.50	INR Forty Three Thousand Eight Hundred & Ninety Seven and Paise Fifty Only

2.27	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of interlocking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern	100.000	sqm	893.83	89383.00	INR Eighty Nine Thousand Three Hundred & Eighty Three Only
2.28	Towards the charges for supplying and fitting Kinetic air valve including the cost of conveyance of valve and fitting charges, etc	6.000	Nos	17422.50	104535.00	INR One Lakh Four Thousand Five Hundred & Thirty Five Only
2.29	Interconnecting the pipeline with the existing PVC Pipe of size 110 mm by supplying specials all cost of materials and necessary earth work excavation in all class of soil etc complete as per direction of dept officers	70.000	Nos	1563.23	109426.10	INR One Lakh Nine Thousand Four Hundred & Twenty Six and Paise Ten Only
2.30	Interconnecting the pipeline with the existing PVC Pipe of size up to 90 mm by supplying specials all cost of materials and necessary earth work excavation in all class of soil etc complete as per direction of dept officers	75.000	Nos	1505.15	112886.25	INR One Lakh Twelve Thousand Eight Hundred & Eighty Six and Paise Twenty Five Only
2.31	Supplying and conveying 90 mm PVC Bend	160.000	Nos	283.41	45345.60	INR Forty Five Thousand Three Hundred & Forty Five and Paise Sixty Only
2.32	Supplying and conveying 90 mm PVC (10 kg) End cap	75.000	Nos	91.00	6825.00	INR Six Thousand Eight Hundred & Twenty Five Only
2.33	Supplying, conveying and fitting 90 mm PVC Tee	75.000	Nos	133.00	9975.00	INR Nine Thousand Nine Hundred & Seventy Five Only
2.34	Supplying and conveying 110 mm PVC Bend	50.000	Nos	313.61	15680.50	INR Fifteen Thousand Six Hundred & Eighty and Paise Fifty Only
2.35	Supplying and fitting 110 mm PVC Tee	50.000	Nos	243.91	12195.50	INR Twelve Thousand One Hundred & Ninety Five and Paise Fifty Only
2.36	Supplying and fitting 110 mm PVC End cap	20.000	Nos	151.00	3020.00	INR Three Thousand & Twenty Only
3	<b>Part-5-Valve Chamber</b>					

3.01	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	173.881	cum	408.70	71065.16	INR Seventy One Thousand & Sixty Five and Paise Sixteen Only
3.02	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)	9.660	cum	5892.38	66580.39	INR Sixty Six Thousand Five Hundred & Eighty and Paise Thirty Nine Only
3.03	Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centering, shuttering, finishing and reinforcement with 1:1. 5:3 ( 1 cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	69.370	cum	9691.38	672291.03	INR Six Lakh Seventy Two Thousand Two Hundred & Ninety One and Paise Three Only
3.04	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.	5550.000	kg	79.18	439449.00	INR Four Lakh Thirty Nine Thousand Four Hundred & Forty Nine Only
3.05	Centering and shuttering including strutting, propping etc. and removal of form work for:Retaining walls, return walls, (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	162.800	sqm	529.62	86222.14	INR Eighty Six Thousand Two Hundred & Twenty Two and Paise Fourteen Only
4	<b>Part 6-cost of materials</b>					
4.01	Supply of DI K9 Pipe Conforming to IS 8329/2000, 300mm Dia.	5250.000	m	3536.40	18566100.00	INR One Crore Eighty Five Lakh Sixty Six Thousand One Hundred Only
4.02	Providing and laying S&S.C.I Standard specials such as tees, bends, collars tapers and caps etc., suitable for flanged jointing as per IS: 1538:UPto 300 mm dia	150.724	qtl	9267.85	1396887.42	INR Thirteen Lakh Ninety Six Thousand Eight Hundred & Eighty Seven and Paise Forty Two Only
4.03	Supply of PVC Pipe, 10kg/cm2, 90mm Dia.	19000.000	m	238.05	4522950.00	INR Forty Five Lakh Twenty Two Thousand Nine Hundred & Fifty Only
4.04	Supply of PVC Pipe, 10kg/cm2, 110mm Dia.	5000.000	m	348.45	1742250.00	INR Seventeen Lakh Forty Two Thousand Two Hundred & Fifty Only
5	<b>Part 8-Rennoavation of Karukutty Mookannoor pump house</b>					
5.01	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 -inCharges:In cement mortar	26.550	cum	1406.87	37352.40	INR Thirty Seven Thousand Three Hundred & Fifty Two and Paise Forty Only

5.02	Demolishing brick work 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	6.000	cum	1178.85	7073.10	INR Seven Thousand & Seventy Three and Paise Ten Only
5.03	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	27.503	cum	232.78	6402.15	INR Six Thousand Four Hundred & Two and Paise Fifteen Only
5.04	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)	7.568	cum	7540.70	57068.02	INR Fifty Seven Thousand & Sixty Eight and Paise Two Only
5.05	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: 1:1:5:3 (1 cement 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	25.980	cum	8694.65	225887.01	INR Two Lakh Twenty Five Thousand Eight Hundred & Eighty Seven and Paise One Only
5.06	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)	2100.000	kg	79.18	166278.00	INR One Lakh Sixty Six Thousand Two Hundred & Seventy Eight Only
5.07	Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers	62.175	sqm	479.68	29824.10	INR Twenty Nine Thousand Eight Hundred & Twenty Four and Paise Ten Only

5.08	Providing and fixing double scaffolding system (cup lock type) on the exterior side, upto seven story high made with 40 mm dia. M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required location with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in Charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. Note:- This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done .	30.000	sqm	224.03	6720.90	INR Six Thousand Seven Hundred & Twenty and Paise Ninety Only
5.09	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)	26.528	cum	5547.83	147172.83	INR One Lakh Forty Seven Thousand One Hundred & Seventy Two and Paise Eighty Three Only
5.10	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand):With F.P.S. ( non modular ) bricks(from floor 2 level up to floor 5 level)	10.501	cum	7890.08	82853.73	INR Eighty Two Thousand Eight Hundred & Fifty Three and Paise Seventy Three Only
5.11	Steel work in built up G I tubular ( round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete	240.060	kg	140.09	33630.01	INR Thirty Three Thousand Six Hundred & Thirty and Paise One Only

5.12	Towards the charges for supplying and fitting ready made septic tank, including the cost of conveyance charges, etc	1,000	Nos	11615.00	11615.00	INR Eleven Thousand Six Hundred & Fifteen Only
5.13	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	113.200	sqm	241.94	27387.61	INR Twenty Seven Thousand Three Hundred & Eighty Seven and Paise Sixty One Only
5.14	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:One or more coats on old work	538.090	sqm	77.29	41588.98	INR Forty One Thousand Five Hundred & Eighty Eight and Paise Ninety Eight Only
5.15	Painting with synthetic enamel paint of approved brand and manufacture of required colour to an give even shade:One or more coats on old work	538.090	sqm	71.76	38613.34	INR Thirty Eight Thousand Six Hundred & Thirteen and Paise Thirty Four Only
5.16	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade.Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	33.961	sqm	118.56	4026.42	INR Four Thousand & Twenty Six and Paise Forty Two Only
5.17	Taking out doors, windows and clerestory window shutters (steel or wood ) including stacking within 50 metres lead:Of area beyond 3 sq. metres	3,000	nos	113.31	339.93	INR Three Hundred & Thirty Nine and Paise Ninety Three Only
5.18	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).Sal wood.	0.260	cum	119447.38	31056.32	INR Thirty One Thousand & Fifty Six and Paise Thirty Two Only

5.19	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer - in-charge. Second class teak wood 35 mm thick shutters.	5.400	sqm	3564.61	19248.89	INR Nineteen Thousand Two Hundred & Forty Eight and Paise Eighty Nine Only
<b>Total in Figures</b>					<b>145024621.38</b>	INR Eleven Crore Sixty Six Lakh Twenty Four Thousand Three Hundred & Thirty Three and Paise Five Only
<b>Quoted Rate in Figures</b>			<b>Excess (+)</b>	<b>24.00%</b>	<b>179830530.51</b>	INR Seventeen Crore Ninety Eight Lakh Thirty Thousand Five Hundred & Thirty Paise Fifty One Only
<b>Quoted Rate in Words</b>		<b>INR Seventeen Crore Ninety Eight Lakh Thirty Thousand Five Hundred &amp; Thirty and Paise Fifty One Only</b>				

**ACCEPTED PAC**

Tenderd PAC	-	Rs.14,50,24,621.38
Add 10% of Tendered PAC	-	Rs.1,45,02,462.14
Total	-	Rs. 15,95,27,083.52
<b>ACCEPTED PAC</b>	-	<b>Rs.15,95,27,083.00</b>

**(Rupees Fifteen Crores Ninety Five Lakhs Twenty Seven Thousand and Eighty Three Only)**

**SUPERINTENDING ENGINEER**

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