



Kerala Water Authority

Office of the Superintending Engineer
Public Health Circle Malappuram - 676505

No. SE/PHC/MPM/DB4/16749/2022-23

Dated: 16.08.2022

From

Superintending Engineer

To

Sri.Zubair V.Cheruparambil(h)
Mangattupulam,Kodur(po)
Malappuraam

Sub:- JJM-WSS to Keezhuparamba Panchayath in Malappuram District -Package II
-Supply, laying clear water pumping main,Distribution system with FHTC
including construction of 4 LL Capacity OHSR at Thadapparamba.Work
Order Issuing Reg

Ref:- 1. AS No: G.O. (Rt)No.134/2022/WRD dated 23.02.2022 of the WRD, Tvm.
2. T.S No: 3523/2022-2023 dated: 12.05.2022 of Chief Engineer,
NR,Kozhikode
3. Tender No: SE/PHC/MPM/16/2022-23. Due Date: 23.06.2022.
4. Order No: 2091/ D5M/2022/ of Chief Engineer (NR)Kozhikode Dated:
14.08.2022

WORK ORDER

With reference to the above, you are here by informed that your tender for the above work is accepted at the amount of Rs.**29,76,72,722/-**-(Rupees Twenty Nine Crores Seventy Six Lakhs Seventy Two Thousand Seven hundred and Twenty Two only) is 3.5% above the Tendered PAC of Rs.28,76,06,495/-based on current SoR (2018).

You are directed to attend this office within **14 days from the date of this order** with required Kerala Stamp paper worth **Rs.1,00,000/-** to execute agreement and start the work after getting necessary instructions from the Executive Engineer, Project Division, Malappuram.

1. Before executing the agreement you should deposit a Performance Guarantee amount of **Rs 89,30,182/-**. At least 50% of the Performance Guarantee must be in the form of Treasury Deposit duly pledged in favor of Superintending Engineer, P .H. Circle, K.W.A., Malappuram and the rest in the form of Guarantee issued from any Nationalized Bank/ Scheduled Bank/Kerala Financial Corporation or any other form prescribed in the revised Kerala PWD manual for the fulfillment of Contract. (The total Performance Guarantee will be 3% of the Agreed PAC).The EMD furnished along with tender will be released on receipt of the Security Deposit and written request.
2. Any failure in this direction will be liable to result in the forfeiture of your offer,



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 the rearrangement of the work or otherwise consequent on the contractor's failure to execute the agreement or execute the work as provided for in the clause of the Notice Inviting Tender and all such loss shall be recovered from the contractor under the provision of the Revenue Recovery Act or otherwise.

3. It must be understood that on no account the rates once fixed will be increased. Payment made as per the availability of funds for the scheme.
4. The estimate amount for working charges will be recovered in case the pipe supplied is not laid.
5. Proceedings of the Managing Director of Kerala Water Authority No:KWA/JB/P6/JJM-Legal/2020 Dated:13.04.2022 for complying the Judgement dated:11.02.2022 of the Hon'ble High court will be applicable for this contract. As per the court order ,the work related to water connection to be done by a Licensed Plumber of Kerala Water Authority as per the empanelled list.
6. The work should be completed in all respects within **12 (Twelve) months** from the date of Work order.
7. All the terms and conditions of the Notice Inviting Tender shall be binding on the Contract.
8. The contractor shall take over charge of the site within 10 days after executing agreement and commence the work.
9. The Contractor should complete the work in all respect as per scope of work within the accepted PACRs. **29,76,72,722/-**(Excluding GST).
10. The Executive Engineer should ensure that payments are made after satisfactory completion of the work as per NIT.
11. The contractor will be eligible for applicable GST over and above the quoted amount as per the Govt. Circular No.18/2019/Fin. Dated 01.03.2019.

Yours faithfully,
PRASAD V
Superintending Engineer

Copy To

Copy with accepted schedule submitted to the Chief Engineer (NR), Kerala Water Authority, Kozhikode.

Copy with accepted schedule forwarded to Executive Engineer, Project Division, KWA, Malappuram for necessary action. The date of handing over the site to the contractor may be reported to this office and also instructed that the Executive Engineer shall ensure that necessary adequate precaution shall be taken so that the work is completed satisfactorily. It should also be ensured that no excess payment is made at any point of time and that the contractor completes the work satisfactorily.

Copy to Agreement – 3 Nos.

Encl:

Accepted schedule, Special Conditions, Empanelled list of Plumbers





The document is digitally approved. Hence signature is not needed.

SPECIAL CONDITIONS FOR JAL JEEVAN MISSION WORKS**Tender No: SE/PHC/MPM/16/2022-23**

1. 10% of the total cost is meant through beneficiary contribution. Jal Jeevan Mission guidelines stipulate that beneficiary contribution can be in the form of cash, kind, labour or materials. Hence if beneficiary contribution is in any form other than cash, such things will be considered accordingly. In such cases, measurements will be made separately and the contractor will not be entitled for payments of such measurements.
2. The payment for the work will be given in proportionate with Geo-tagged FHTCs actually installed.
3. All materials shall be supplied by the contractor in a phased manner as per the direction of Engineer in Charge.
4. Acceptance of measurements and payments will be made as per norms of JJM.
5. The provision of stand post with concrete base for FHTC is to be done only as per the direction of Engineer in Charge wherever necessary.
6. Proceedings of the Managing Director of Kerala Water Authority No:KWA/JB/P6/JJM-Legal/2020 Dated:13.04.2022 for complying the Judgement dated:11.02.2022 of the Hon'ble High court will be applicable for this contract.As per the court order ,the work related to water connection to be done by a Licensed Plumber of Kerala Water Authority as per the empanelled list.
7. The **GI/DI/PE/PVC pipes** to be supplied for this work should be as per relevant Indian standard specification with the latest amendments.
8. The GI pipes to be supplied for the work should be as per IS 1239/Part-1/1990 with latest amendments and shall bear ISI certification mark and it should be inclusive of specials such as bend, tees, elbow, reducer, couplings, white lead etc. required for laying and commissioning of the work.
9. All classes of pipes using for this work shall bear ISI certification.
10. Separate transportation charges for pipes and specials should not be claimed. The rate quoted should be inclusive of all taxes applicable but excluding of GST.
11. Payment for the work completed will be made to the contractor only after the satisfactory laying and testing of pipe lines and availability of fund.
12. Work contract tax, income tax and other such statutory taxes of recoveries as per existing rules will be levied/deducted from the contractor's bill.
13. The contractor should guarantee for the satisfactory performance of the pipe lines laid by them for a period of 12 months after the completion and commissioning of the pipe line. During this period, any repairs/leaks/any kind of maintenance necessitated should be rectified by the contractor at their own cost within the shortest possible time, failing which the repair/leak rectification work will be arranged/attended by KWA at the risk and cost of the contractor. The contractor should guarantee for the connection works for a period of 12months after the completion and commissioning of work.
14. The entire security deposit, including the retention amount total up to 8% of the contract value will be retained with KWA till the end of the guarantee period, and the balance amount will be paid on satisfactory completion and commissioning of the pipe line as per the existing rule.
15. Concrete Anchor blocks, valve chambers etc if any required should be provided by the Contractor as per the quantities provided in the tender schedule
16. All cement and steel required for the completion of work shall supplied by the Contractor and shall confirmed to KWA relevant standards.
17. GI pipes, specials, valves and fittings if required for the work for specific application like street fountain etc. should be as per relevant Indian standard.
18. Under any circumstances, no price variations will be allowed for the pipes or any other materials to be supplied and the price/rates quoted will remain firm until the work is completed.
19. The Contractor is bound to carry out the works up to 10% in excess of the quantity specified, if required during actual execution on the same rates and terms and conditions.
20. All the materials supplied by the contractor for the work will be under the safe custody of the contractor at his own cost until the work is completed.
21. Payment for the materials supplied by the contractor will be limited to the actual use in site.
22. The Contractor should make arrangements for a quality assurance test of pipes by KWA/a third party engaged by KWA.



ACCEPTED SCHEDULE

Tender Inviting Authority: SUPERINTENDING ENGINEER, PH CIRCLE, KWA, MALAPPURAM

Name of Work: JJM-WSS to Keezhuparamba Panchayath in Malappuram District -Package II - Supply, laying clear water pumping main, Distribution system with FHTC including construction of 4 LL Capacity OHSR at Thadapparamba

Contract No: SE/PHC/MPM/16/2022-23

Name of the Bidder/ Bidding Firm /	ZUBAIR V					
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including all taxes but excluding GST in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	6	53	55
1	Appendix A -Supply laying clear water pumping main from WTP to newly proposed 4 LL OHSR at thadapparambu					
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)	3203.550	cum	558.99	1790752.415	INR Seventeen Lakh Ninety Thousand Seven Hundred & Fifty Two and Paise Forty Two Only
1.002	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)	1975.523	cum	811.82	1603769.082	INR Sixteen Lakh Three Thousand Seven Hundred & Sixty Nine and Paise Eight Only



Draft #2 of File SE/PHC/MPM/DB4/16749/2022-23 Approved by Superintending Engineer on 16-Aug-2022 06:35

1.003	"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)	53.393	cum	1566.06	83616.642	INR Eighty Three Thousand Six Hundred & Sixteen and Paise Sixty Four Only
1.004	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m ² on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Medium Rock (blasting prohibited) New Data derived from Item No.2.9.3	106.785	cum	1066.55	113891.542	INR One Lakh Thirteen Thousand Eight Hundred & Ninety One and Paise Fifty Four Only
1.005	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.	4050.000	metre	30.63	124051.500	INR One Lakh Twenty Four Thousand & Fifty One and Paise Fifty Only
1.006	Dismantling manually / mechanical means and disposal of materials within 50 m lead as per direction of Engineer - in - Charge for Bituminous road	1417.500	sqm	88.43	125349.525	INR One Lakh Twenty Five Thousand Three Hundred & Forty Nine and Paise Fifty Two Only
1.007	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	56240.000	INR Fifty Six Thousand Two Hundred & Forty Only
1.008	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)	100.000	metre	96.77	9677.000	INR Nine Thousand Six Hundred & Seventy Seven Only
1.009	Supply, stacking, spreading and consolidating of Quarry Muck in the trench of pipe line, including carriage, loading, unloading & stacking up to any lead.	31.500	cum	549.44	17307.360	INR Seventeen Thousand Three Hundred & Seven and Paise Thirty Six Only



1.01	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.	35.000	cum	357.40	12509.000	INR Twelve Thousand Five Hundred & Nine Only
1.011	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials : 150 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.16 in DAR	6750.000	metre	88.21	595417.500	INR Five Lakh Ninety Five Thousand Four Hundred & Seventeen and Paise Fifty Only
1.012	Labour for cutting D.I. pipe with steel saw. 150 mm diameter D.I. pipe	45.000	Each Cut	324.97	14623.650	INR Fourteen Thousand Six Hundred & Twenty Three and Paise Sixty Five Only
1.013	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :	12.612	quintal	20247.70	255363.992	INR Two Lakh Fifty Five Thousand Three Hundred & Sixty Three and Paise Ninety Nine Only
1.014	Providing and laying D.I Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :	1.120	quintal	21277.82	23831.158	INR Twenty Three Thousand Eight Hundred & Thirty One and Paise Sixteen Only
1.015	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:150 mm dia pipes	1230.000	joint	177.51	218337.300	INR Two Lakh Eighteen Thousand Three Hundred & Thirty Seven and Paise Thirty Only
1.016	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :	10.000	metre	2722.86	27228.600	INR Twenty Seven Thousand Two Hundred & Twenty Eight and Paise Sixty Only
1.017	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:150 mm diameter pipe	4.000	Nos	387.83	1551.320	INR One Thousand Five Hundred & Fifty One and Paise Thirty Two Only
1.018	Fabricating MS pipes of size 150mm (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 8mm thick MS plates.	40.000	metre	4988.52	199540.800	INR One Lakh Ninety Nine Thousand Five Hundred & Forty and Paise Eighty Only
1.019	Fabricating MS flanges of diameter 150 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.	14.000	No	1499.76	20996.640	INR Twenty Thousand Nine Hundred & Ninety Six and Paise Sixty Four Only
1.02	Cutting 150mm (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.	66.000	No	163.66	10801.560	INR Ten Thousand Eight Hundred & One and Paise Fifty Six Only



1.021	Welding 150mm (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.	66.000	No	626.12	41323.920	INR Forty One Thousand Three Hundred & Twenty Three and Paise Ninety Two Only
1.022	Grinding cut and weld edges of 150mm (ID) MS pipes during fabrication work including all labour and hire charges of tools etc. complete: For pipes fabricated with 8mm thick MS plates.	66.000	No	117.41	7749.060	INR Seven Thousand Seven Hundred & Forty Nine and Paise Six Only
1.023	Testing 150mm DI/CI pipeline with potable water to the required test pressure 150 mm dia Observed Data derived from item no.1018 of PHED DATA	6750.000	metre	31.74	214245.000	INR Two Lakh Fourteen Thousand Two Hundred & Forty Five Only
1.024	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 II"Data derived from item no.18.31.3.2of DAR	5.000	Nos	1291.88	6459.400	INR Six Thousand Four Hundred & Fifty Nine and Paise Forty Only
1.025	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 seperately): 40 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR	6.000	Nos	177.78	1066.680	INR One Thousand & Sixty Six and Paise Sixty Eight Only
1.026	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)	175.000	cum	8040.95	1407166.250	INR Fourteen Lakh Seven Thousand One Hundred & Sixty Six and Paise Twenty Five Only
2	Appendix A1-Construction of valve chamber and anchor blocks					
2.001	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	44.922	cum	298.80	13422.694	INR Thirteen Thousand Four Hundred & Twenty Two and Paise Sixty Nine Only
2.002	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Ordinary rock	8.985	cum	530.82	4769.418	INR Four Thousand Seven Hundred & Sixty Nine and Paise Forty Two Only



2.003	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)	4.493	cum	7413.74	33309.934	INR Thirty Three Thousand Three Hundred & Nine and Paise Ninety Three Only
2.004	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	28.692	cum	9142.09	262304.846	INR Two Lakh Sixty Two Thousand Three Hundred & Four and Paise Eighty Five Only
2.005	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	244.382	sqm	721.70	176370.489	INR One Lakh Seventy Six Thousand Three Hundred & Seventy and Paise Forty Nine Only
2.006	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	1318.286	kilogram	98.92	130404.851	INR One Lakh Thirty Thousand Four Hundred & Four and Paise Eighty Five Only
3	Appendix A2-Cost of materials					
3.001	Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia.	6784.000	metre	1673.35	11352006.400	INR One Crore Thirteen Lakh Fifty Two Thousand & Six and Paise Forty Only
3.002	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 40mm.	6.000	No	1421.70	8530.200	INR Eight Thousand Five Hundred & Thirty and Paise Twenty Only
3.003	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.	4.000	No	6770.65	27082.600	INR Twenty Seven Thousand & Eighty Two and Paise Sixty Only
3.004	Supply of suitable 150 mm size cast steel NRV as per latest specification	3.000	No	25311.41	75934.230	INR Seventy Five Thousand Nine Hundred & Thirty Four and Paise Twenty Three Only
4	Appendix B-Construction of 4 LL OHSR at Pathanapuram Thadaparamba					
4.001	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	300.000	sqm	7.57	2271.000	INR Two Thousand Two Hundred & Seventy One Only
4.002	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Ordinary rock	284.401	cum	530.82	150965.739	INR One Lakh Fifty Thousand Nine Hundred & Sixty Five and Paise Seventy Four Only
4.003	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)	23.402	cum	7413.74	173496.343	INR One Lakh Seventy Three Thousand Four Hundred & Ninety Six and Paise Thirty Four Only



4.004	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level	78.204	cum	9472.55	740791.300	INR Seven Lakh Forty Thousand Seven Hundred & Ninety One and Paise Thirty Only
4.005	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level	196.268	cum	11135.00	2185444.180	INR Twenty One Lakh Eighty Five Thousand Four Hundred & Forty Four and Paise Eighteen Only
4.006	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).	113.030	cum	82.61	9337.408	INR Nine Thousand Three Hundred & Thirty Seven and Paise Forty One Only
4.007	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	129.282	sqm	337.42	43622.332	INR Forty Three Thousand Six Hundred & Twenty Two and Paise Thirty Three Only
4.008	Centering and shuttering including strutting, etc. and removal of form for:	511.201	sqm	653.89	334269.222	INR Three Lakh Thirty Four Thousand Two Hundred & Sixty Nine and Paise Twenty Two Only
4.009	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts	220.080	sqm	869.05	191260.524	INR One Lakh Ninety One Thousand Two Hundred & Sixty and Paise Fifty Two Only
4.01	Centering and shuttering including strutting, etc. and removal of form for:	368.651	sqm	820.89	302621.919	INR Three Lakh Two Thousand Six Hundred & Twenty One and Paise Ninety Two Only



4.011	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	436.001	sqm	721.70	314661.922	INR Three Lakh Fourteen Thousand Six Hundred & Sixty One and Paise Ninety Two Only
4.012	Centering and shuttering including strutting, etc. and removal of form for:Edges of slabs and breaks in floors and wallsUnder 20 cm wide	246.000	metre	205.21	50481.660	INR Fifty Thousand Four Hundred & Eighty One and Paise Sixty Six Only
4.013	Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings) except spiral - staircases)	14.785	sqm	737.12	10898.319	INR Ten Thousand Eight Hundred & Ninety Eight and Paise Thirty Two Only
4.014	Extra additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5m, for every additional height of 1 metre or part thereof (Plan area to be measured).Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	161.290	sqm	340.49	54917.632	INR Fifty Four Thousand Nine Hundred & Seventeen and Paise Sixty Three Only
4.015	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	35402.372	kilogram	98.92	3502002.638	INR Thirty Five Lakh Two Thousand & Two and Paise Sixty Four Only
4.016	12 mm cement plaster finished with a floating coat of neat cement of mix:	1619.118	sqm	403.73	653686.510	INR Six Lakh Fifty Three Thousand Six Hundred & Eighty Six and Paise Fifty One Only
4.017	12 mm cement plaster finished with a floating coat of neat cement of mix:	161.290	sqm	388.79	62707.939	INR Sixty Two Thousand Seven Hundred & Seven and Paise Ninety Four Only
4.018	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	242.868	kg	1.43	347.301	INR Three Hundred & Forty Seven and Paise Thirty Only
4.019	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	962.312	sqm	78.11	75166.190	INR Seventy Five Thousand One Hundred & Sixty Six and Paise Nineteen Only
4.02	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	530.161	sqm	71.09	37689.145	INR Thirty Seven Thousand Six Hundred & Eighty Nine and Paise Fourteen Only
4.021	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	10864.001	kg	120.54	1309546.681	INR Thirteen Lakh Nine Thousand Five Hundred & Forty Six and Paise Sixty Eight Only
4.022	Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)	1619.118	sqm	108.06	174961.891	INR One Lakh Seventy Four Thousand Nine Hundred & Sixty One and Paise Eighty Nine Only



4.023	Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set , hire for tanker lorry, tools and other appliances and cost of water etc. complete."(Ref. No. 000, Technical Circular)"	400.000	Kilo litre	185.67	74268.000	INR Seventy Four Thousand Two Hundred & Sixty Eight Only
4.024	Supplying and providing lightening conductor to the tank of appropriate places and providing suitable earthing as per IS code.	1.000	No	60000.00	60000.000	INR Sixty Thousand Only
4.025	Supplying and fixing water level indicator with all accessories including cost, conveyance and labour charges.	1.000	No	10000.00	10000.000	INR Ten Thousand Only
4.026	Supplying and fitting CI Vent cowl with providing moisture proof arrangements.	6.000	No	696.90	4181.400	INR Four Thousand One Hundred & Eighty One and Paise Forty Only
4.027	Supplying and fitting CI MH cover of size 500X500 mm size	4.000	kg	5807.50	23230.000	INR Twenty Three Thousand Two Hundred & Thirty Only
4.028	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	120.000	kg	681.59	81790.800	INR Eighty One Thousand Seven Hundred & Ninety and Paise Eighty Only
4.029	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required 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.	93.000	sqm	1017.91	94665.630	INR Ninety Four Thousand Six Hundred & Sixty Five and Paise Sixty Three Only
4.03	Lettering with black Japan pint of approved brand and manufacture	2500.000	Letterxcm ht	5.59	13975.000	INR Thirteen Thousand Nine Hundred & Seventy Five Only
5	Appendix B1-Tank inter connection work					
5.001	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :	220.000	metre	2722.86	599029.200	INR Five Lakh Ninety Nine Thousand & Twenty Nine and Paise Twenty Only



5.002	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:150 mm diameter pipe	60.000	Nos	387.83	23269.800	INR Twenty Three Thousand Two Hundred & Sixty Nine and Paise Eighty Only
5.003	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 II"Data derived from item no.18.31.3.2of DAR	6.000	Nos	1291.88	7751.280	INR Seven Thousand Seven Hundred & Fifty One and Paise Twenty Eight Only
5.004	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :	8.160	quintal	20247.70	165221.232	INR One Lakh Sixty Five Thousand Two Hundred & Twenty One and Paise Twenty Three Only
5.005	Supplying a mechanical flow meter of Woltman Type confirming to ISO 4064 class B of ARAD/ZENNER/REYCHEM RPG/ITRON make and the flow meter shall be tested and certified by FCRI - Palakkad -For 150 mm	1.000	No	25000.00	25000.000	INR Twenty Five Thousand Only
6	Appendix B2-Construction of compound wall					
6.001	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Ordinary rock	28.800	cum	530.82	15287.616	INR Fifteen Thousand Two Hundred & Eighty Seven and Paise Sixty Two Only
6.002	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:	53.083	cum	7249.94	384848.565	INR Three Lakh Eighty Four Thousand Eight Hundred & Forty Eight and Paise Fifty Seven Only
6.003	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)	0.576	cum	7413.74	4270.314	INR Four Thousand Two Hundred & Seventy and Paise Thirty One Only
6.004	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up tot floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	8.802	cum	11022.71	97021.893	INR Ninety Seven Thousand &Twenty One and Paise Eighty Nine Only
6.005	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	40.402	sqm	721.70	29158.123	INR Twenty Nine Thousand One Hundred & Fifty Eight and Paise Twelve Only



6.006	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	660.150	kilogram	98.92	65302.038	INR Sixty Five Thousand Three Hundred & Two and Paise Four Only
6.007	Laterate masonry with neatly dressed laterate stone of size 40x20x15cm or nearest size in cement mortar 1:6 for super structure above plinth level up to floor two level including all cost of materials, labour charges etc.	32.642	cum	7968.75	260115.938	INR Two Lakh Sixty Thousand One Hundred & Fifteen and Paise Ninety Four Only
6.008	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for serarately) :- Payment to be made per metre cost of total length of barbed wire used.	320.000	metre	22.58	7225.600	INR Seven Thousand Two Hundred & Twenty Five and Paise Sixty Only
6.009	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	183.600	kilogram	109.42	20089.512	INR Twenty Thousand & Eighty Nine and Paise Fifty One Only
6.01	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.	200.000	kg	186.51	37302.000	INR Thirty Seven Thousand Three Hundred & Two Only
6.011	Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement.	360.401	sqm	414.71	149461.899	INR One Lakh Forty Nine Thousand Four Hundred & Sixty One and Paise Ninety Only
6.012	Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)	360.401	sqm	108.06	38944.932	INR Thirty Eight Thousand Nine Hundred & Forty Four and Paise Ninety Three Only
6.013	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture .	18.080	sqm	209.84	3793.907	INR Three Thousand Seven Hundred & Ninety Three and Paise Ninety One Only
7	Appendix B3-Cost of materials					
7.001	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 150mm.	8.000	No	6829.10	54632.800	INR Fifty Four Thousand Six Hundred & Thirty Two and Paise Eighty Only
8	Appendix C-Distribution system-working charges					



8.001	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)	34113.836	cum	558.99	19069293.186	INR One Crore Ninety Lakh Sixty Nine Thousand Two Hundred & Ninety Three and Paise Nineteen Only
8.002	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : "Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)	32749.285	cum	811.82	26586524.549	INR Two Crore Sixty Five Lakh Eighty Six Thousand Five Hundred & Twenty Four and Paise Fifty Five Only
8.003	"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)	682.281	cum	1566.06	1068492.983	INR Ten Lakh Sixty Eight Thousand Four Hundred & Ninety Two and Paise Ninety Eight Only
8.004	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m ² on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Medium Rock (blasting prohibited) New Data derived from Item No.2.9.3	682.281	cum	1066.55	727686.801	INR Seven Lakh Twenty Seven Thousand Six Hundred & Eighty Six and Paise Eighty Only



8.005	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.	66550.000	metre	30.63	2038426.500	INR Twenty Lakh Thirty Eight Thousand Four Hundred & Twenty Six and Paise Fifty Only
8.006	Dsmantling manually etc complete	27075.000	sqm	88.43	2394242.250	INR Twenty Three Lakh Ninety Four Thousand Two Hundred & Forty Two and Paise Twenty Five Only
8.007	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)	7000.000	metre	28.12	196840.000	INR One Lakh Ninety Six Thousand Eight Hundred & Forty Only
8.008	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	100.000	metre	96.77	9677.000	INR Nine Thousand Six Hundred & Seventy Seven Only
8.009	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.	30.000	cum	357.40	10722.000	INR Ten Thousand Seven Hundred & Twenty Two Only
8.01	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	1350.000	metre	273.49	369211.500	INR Three Lakh Sixty Nine Thousand Two Hundred & Eleven and Paise Fifty Only
8.011	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	429.000	metre	206.43	88558.470	INR Eighty Eight Thousand Five Hundred & Fifty Eight and Paise Forty Seven Only
8.012	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	4212.000	metre	122.86	517486.320	INR Five Lakh Seventeen Thousand Four Hundred & Eighty Six and Paise Thirty Two Only
8.013	Labour for cutting D.I. pipe with steel saw. 350 mm diameter D.I pipe	9.000	Each Cut	542.24	4880.160	INR Four Thousand Eight Hundred & Eighty and Paise Sixteen Only
8.014	Labour for cutting D.I. pipe with steel saw. 300 mm diameter D.I. pipe	3.000	Each Cut	498.72	1496.160	INR One Thousand Four Hundred & Ninety Six and Paise Sixteen Only
8.015	Labour for cutting D.I. pipe with steel saw. 200 mm diameter D.I. pipe	28.000	Each Cut	433.43	12136.040	INR Twelve Thousand One Hundred & Thirty Six and Paise Four Only



8.016	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :	27.701	quintal	20247.70	560881.538	INR Five Lakh Sixty Thousand Eight Hundred & Eighty One and Paise Fifty Four Only
8.017	Providing and laying D.I Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :	3.830	quintal	21277.82	81494.051	INR Eighty One Thousand Four Hundred & Ninety Four and Paise Five Only
8.018	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	245.000	joint	440.50	107922.500	INR One Lakh Seven Thousand Nine Hundred & Twenty Two and Paise Fifty Only
8.019	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	78.000	joint	415.19	32384.820	INR Thirty Two Thousand Three Hundred & Eighty Four and Paise Eighty Two Only
8.02	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	765.000	joint	260.40	199206.000	INR One Lakh Ninety Nine Thousand Two Hundred & Six Only
8.021	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :	10.000	metre	3436.45	34364.500	INR Thirty Four Thousand Three Hundred & Sixty Four and Paise Fifty Only
8.022	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :	6.000	metre	6262.46	37574.760	INR Thirty Seven Thousand Five Hundred & Seventy Four and Paise Seventy Six Only
8.023	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :	10.000	metre	7885.14	78851.400	INR Seventy Eight Thousand Eight Hundred & Fifty One and Paise Forty Only
8.024	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe	4.000	Nos	421.12	1684.480	INR One Thousand Six Hundred & Eighty Four and Paise Forty Eight Only
8.025	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:300 mm diameter pipe	4.000	Nos	582.05	2328.200	INR Two Thousand Three Hundred & Twenty Eight and Paise Twenty Only
8.026	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:350 mm diameter pipe	4.000	Nos	782.28	3129.120	INR Three Thousand One Hundred & Twenty Nine and Paise Twelve Only
8.027	Fabricating MS pipes of size 200mm (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 8mm thick MS plates.	20.000	metre	5944.08	118881.600	INR One Lakh Eighteen Thousand Eight Hundred & Eighty One and Paise Sixty Only
8.028	Fabricating MS flanges of diameter 200 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.	8.000	Nos	2023.18	16185.440	INR Sixteen Thousand One Hundred & Eighty Five and Paise Forty Four Only



8.029	Cutting 200 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.	48.000	No	212.91	10219.680	INR Ten Thousand Two Hundred & Nineteen and Paise Sixty Eight Only
8.03	Welding 200 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.	48.000	No	814.75	39108.000	INR Thirty Nine Thousand One Hundred & Eight Only
8.031	Grinding cut and weld edges of 200 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.	48.000	No	152.74	7331.520	INR Seven Thousand Three Hundred & Thirty One and Paise Fifty Two Only
8.032	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 8mm thick MS plates.	10.000	metre	7861.47	78614.700	INR Seventy Eight Thousand Six Hundred & Fourteen and Paise Seventy Only
8.033	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.	4.000	Nos	2937.50	11750.000	INR Eleven Thousand Seven Hundred & Fifty Only
8.034	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.	24.000	No	311.56	7477.440	INR Seven Thousand Four Hundred & Seventy Seven and Paise Forty Four Only
8.035	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.	24.000	No	1191.94	28606.560	INR Twenty Eight Thousand Six Hundred & Six and Paise Fifty Six Only
8.036	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.	24.000	No	223.49	5363.760	INR Five Thousand Three Hundred & Sixty Three and Paise Seventy Six Only



8.037	Fabricating MS pipes of size 350mm (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 8mm thick MS plates.	15.000	metre	8817.03	132255.450	INR One Lakh Thirty Two Thousand Two Hundred & Fifty Five and Paise Forty Five Only
8.038	Fabricating MS flanges of diameter 350 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.	6.000	No	3588.16	21528.960	INR Twenty One Thousand Five Hundred & Twenty Eight and Paise Ninety Six Only
8.039	Cutting 350 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.	36.000	No	360.82	12989.520	INR Twelve Thousand Nine Hundred & Eighty Nine and Paise Fifty Two Only
8.04	Welding 350 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.	36.000	No	1380.57	49700.520	INR Forty Nine Thousand Seven Hundred and Paise Fifty Two Only
8.041	Grinding cut and weld edges of 350 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.	36.000	No	258.83	9317.880	INR Nine Thousand Three Hundred & Seventeen and Paise Eighty Eight Only
8.042	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	4212.000	metre	40.14	169069.680	INR One Lakh Sixty Nine Thousand & Sixty Nine and Paise Sixty Eight Only
8.043	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	429.000	metre	55.91	23985.390	INR Twenty Three Thousand Nine Hundred & Eighty Five and Paise Thirty Nine Only
8.044	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	1350.000	metre	68.23	92110.500	INR Ninety Two Thousand One Hundred & Ten and Paise Fifty Only
8.045	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).63 mm nominal outer dia pipes.	20000.000	metre	87.59	1751800.000	INR Seventeen Lakh Fifty One Thousand Eight Hundred Only



8.046	"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 OD HDPE pipe"	81089.000	metre	93.87	7611824.430	INR Seventy Six Lakh Eleven Thousand Eight Hundred & Twenty Four and Paise Forty Three Only
8.047	Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings.110 mm OD HDPE pipeNEW DATA	3153.000	metre	127.30	401376.900	INR Four Lakh One Thousand Three Hundred & Seventy Six and Paise Ninety Only
8.048	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. 160 mm OD HDPE pipe NEW DATA	10239.000	metre	216.53	2217050.670	INR Twenty Two Lakh Seventeen Thousand & Fifty and Paise Sixty Seven Only
8.049	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. 50 mm dia nominal bore Observed Data derived from item no.18.12.6 of DARData for 10 m	2000.000	metre	168.37	336740.000	INR Three Lakh Thirty Six Thousand Seven Hundred & Forty Only
8.05	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 DARData for 10 m	2500.000	metre	209.91	524775.000	INR Five Lakh Twenty Four Thousand Seven Hundred & Seventy Five Only



8.051	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 100 mm dia nominal bore Observed Data derived from item no.18.12 of DAR	200.000	metre	236.66	47332.000	INR Forty Seven Thousand Three Hundred & Thirty Two Only
8.052	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. 150 mm dia nominal ore Observed Data derived from item no.18.12 of DAR	1000.000	metre	293.21	293210.000	INR Two Lakh Ninety Three Thousand Two Hundred & Ten Only
8.053	"Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :80 mm diameter. Class II"Observed Data derived from item no.18.31.of DAR	50.000	Nos	629.26	31463.000	INR Thirty One Thousand Four Hundred & Sixty Three Only
8.054	Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :100 mm diameter. Class II" Data derived from item no.18.31.1.2of DAR	3.000	Nos	963.74	2891.220	INR Two Thousand Eight Hundred & Ninety One and Paise Twenty Two Only
8.055	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 II"Data derived from item no.18.31.3.2of DAR	8.000	Nos	1291.88	10335.040	INR Ten Thousand Three Hundred & Thirty Five and Paise Four Only
8.056	Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) : 200 mm diameter. Class II" Data derived from item no.18.31.4.2of DAR	2.000	Nos	1740.36	3480.720	INR Three Thousand Four Hundred & Eighty and Paise Seventy Two Only
8.057	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 II"Observed Data derived from item no.18.31.of DAR	2.000	Nos	3998.92	7997.840	INR Seven Thousand Nine Hundred & Ninety Seven and Paise Eighty Four Only
8.058	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 seperately): 40 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR	5.000	Nos	177.78	888.900	INR Eight Hundred & Eighty Eight and Paise Ninety Only



8.059	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 seperately): 80 mm Double acting Air Valve Data derived from item no.18.59.2 of DAR	5.000	Nos	220.96	1104.800	INR One Thousand One Hundred & Four and Paise Eighty Only
8.06	supply and erection of Flow Meter for suitable for 350 dia Pumping main with the following specifications supplying an electro -magnetic flow meter conforming to protection level of IP 68 for flow sensor and IP -67 for transmitter and having an accuracy level of 0.5% with LED/LCD display unit .The flow meter should have the housing(flow sensor) to be made of SS 304/carbon steel with anti corrosive protection and inside liner to be made of Hard rubber /ne0 prone all conforming to drinking water standards .The flow meter should be coupled with HART for data acquisition and transfer trough GSM. The manufacturers should have the calibration standards as per ISO 17025 and the product shall have sufficient warranty provisions- 350mm dia	1.000	No	166000.00	166000.000	INR One Lakh Sixty Six Thousand Only
8.061	Supplying a Mechanical flow meter of Woltman type coforming to ISO 4064 cl B of ARAD/ZENNER/REYCHEM RPG/ITRON make and the flow meter shall be tested and certified by FCRI- Palakkad-150 mm size	1.000	No	29037.50	29037.500	INR Twenty Nine Thousand &Thirty Seven and Paise Fifty Only
8.062	Providing power connection to elector magnetic flow meter	1.000	No	29037.50	29037.500	INR Twenty Nine Thousand &Thirty Seven and Paise Fifty Only
8.063	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)	400.000	cum	8040.95	3216380.000	INR Thirty Two Lakh Sixteen Thousand Three Hundred & Eighty Only
8.064	Supply ,stacking,spreading and consolidating of Quarry Muck in the trench of pipe line, including carriage, loading ,unloading & stacking up to any lead.	90.000	cum	549.44	49449.600	INR Forty Nine Thousand Four Hundred & Forty Nine and Paise Sixty Only
8.065	Conveying theexcavated earth from the site up to 1 KM distance by Mechanical transport including loading,unloading and stacking -(As per DSR 2021-Spec No 1.1.2	100.000	cum	161.07	16107.000	INR Sixteen Thousand One Hundred & Seven Only



8.066	Leak rectification work in 75 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the remaining portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe to the site, cutting and lowering new pipe in to the trenches,placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or or any available joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and without causing any damages to the existing utilities and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards,lighting,watching, ribbon fencing, traffic controlling etc.complete as per the direction of Departmental officers including the cost of pipe and PVC specials; PVC Pipes and specials shall be of good quality and conforming to relevant standards; PVC Pipes and specials shall be of good quality and conforming to relevant standards: All Socketed Jointing.	10.000	Leak	1753.58	17535.800	INR Seventeen Thousand Five Hundred & Thirty Five and Paise Eighty Only
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8.067	Leak rectification work in 90 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the remaining portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe to the site, cutting and lowering new pipe in to the trenches,placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or or any available joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and without causing any damages to the existing utilities and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards,lighting,watching, ribbon fencing, traffic controlling etc.complete as per the direction of Departmental officers including the cost of pipe and PVC specials; PVC Pipes and specials shall be of good quality and conforming to relevant standards: All Socketed Jointing.	10.000	Leak	1970.28	19702.800	INR Nineteen Thousand Seven Hundred & Two and Paise Eighty Only
9	Appendix C1-Construction of valve chamber and anchor blocks					
9.001	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	306.282	cum	298.80	91517.062	INR Ninety One Thousand Five Hundred & Seventeen and Paise Six Only
9.002	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Ordinary rock	61.257	cum	530.82	32516.441	INR Thirty Two Thousand Five Hundred & Sixteen and Paise Forty Four Only



9.003	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)	30.629	cum	7413.74	227075.442	INR Two Lakh Twenty Seven Thousand & Seventy Five and Paise Forty Four Only
9.004	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	163.933	cum	9142.09	1498690.240	INR Fourteen Lakh Ninety Eight Thousand Six Hundred & Ninety and Paise Twenty Four Only
9.005	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	1691.550	sqm	721.70	1220791.635	INR Twelve Lakh Twenty Thousand Seven Hundred & Ninety One and Paise Sixty Four Only
9.006	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	8711.400	kilogram	98.92	861731.688	INR Eight Lakh Sixty One Thousand Seven Hundred & Thirty One and Paise Sixty Nine Only
10	Appendix C2-Cost of materials					
10.001	Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia.	4212.000	metre	2100.55	8847516.600	INR Eighty Eight Lakh Forty Seven Thousand Five Hundred & Sixteen and Paise Sixty Only
10.002	Supply of DI K9 Pipe Conforming to IS 8329/2000, 300mm Dia.	429.000	metre	3537.65	1517651.850	INR Fifteen Lakh Seventeen Thousand Six Hundred & Fifty One and Paise Eighty Five Only
10.003	Supply of DI K9 Pipe Conforming to IS 8329/2000, 350mm Dia.	1350.000	metre	4333.00	5849550.000	INR Fifty Eight Lakh Forty Nine Thousand Five Hundred & Fifty Only
10.004	Supply of uPVC Pipe, IS 4985: 2000 , 8kg/cm2, 63mm Dia.	20000.000	metre	139.40	2788000.000	INR Twenty Seven Lakh Eighty Eight Thousand Only
10.005	Supplying PVC specials-3% cost of pipe -63 mm PVC -8 kg/cm	20000.000	set	4.18	83600.000	INR Eighty Three Thousand Six Hundred Only
10.006	Supply of PE Pipe, PE100, PN8, 90mm dia, conforming to IS 4984/2016.	70089.000	metre	213.70	14978019.300	INR One Crore Forty Nine Lakh Seventy Eight Thousand & Nineteen and Paise Thirty Only
10.007	Supplying PE specials-5% cost of pipe -90 mm PE-8	70089.000	metre	10.69	749251.410	INR Seven Lakh Forty Nine Thousand Two Hundred & Fifty One and Paise Forty One Only
10.008	Supply of PE Pipe, PE100, PN8, 110mm dia, conforming to IS 4984/2016	3153.000	metre	321.75	1014477.750	INR Ten Lakh Fourteen Thousand Four Hundred & Seventy Seven and Paise Seventy Five Only
10.009	Supplying PE specials-5% cost of pipe -110 mm PE-8	3153.000	metre	16.09	50731.770	INR Fifty Thousand Seven Hundred & Thirty One and Paise Seventy Seven Only
10.01	Supply of PE Pipe, PE100, PN8, 160mm dia, conforming to IS 4984/2016.	10239.000	metre	681.80	6980950.200	INR Sixty Nine Lakh Eighty Thousand Nine Hundred & Fifty and Paise Twenty Only
10.011	Supplying PE specials-5% cost of pipe -160 mm PE-8	10239.000	metre	34.09	349047.510	INR Three Lakh Forty Nine Thousand & Forty Seven and Paise Fifty One Only
10.012	Supply of 50 mm GI pipe (m)	2000.000	metre	491.27	982540.000	INR Nine Lakh Eighty Two Thousand Five Hundred & Forty Only
10.013	Supplying GI specials-5% cost of pipe -50 mm GI pipe	2000.000	set	24.56	49120.000	INR Forty Nine Thousand One Hundred & Twenty Only
10.014	Supply of 80mm GI pipe (m)	2500.000	metre	800.30	2000750.000	INR Twenty Lakh Seven Hundred & Fifty Only



10.015	Supplying GI specials-5% cost of pipe -80 mm GI pipe	2500.000	set	40.02	100050.000	INR One Lakh & Fifty Only
10.016	Supply of 100mm GI pipe (m)	200.000	metre	1194.90	238980.000	INR Two Lakh Thirty Eight Thousand Nine Hundred & Eighty Only
10.017	Supplying GI specials-5% cost of pipe -100 mm GI pipe	200.000	set	59.75	11950.000	INR Eleven Thousand Nine Hundred & Fifty Only
10.018	Supply of 150 mm GI pipe (m)	1000.000	metre	1881.10	1881100.000	INR Eighteen Lakh Eighty One Thousand One Hundred Only
10.019	Supplying GI specials-5% cost of pipe -150 mm GI pipe	1000.000	set	94.06	94060.000	INR Ninety Four Thousand & Sixty Only
10.02	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 40mm.	5.000	No	1421.70	7108.500	INR Seven Thousand One Hundred & Eight and Paise Fifty Only
10.021	Supply of CI Air Valve with Flanges, Conforming to IS 14845 - 2000, Kinetic Air Valve Type DS1, Size 80mm.	5.000	No	3568.20	17841.000	INR Seventeen Thousand Eight Hundred & Forty One Only
10.022	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 80mm.	50.000	No	3275.90	163795.000	INR One Lakh Sixty Three Thousand Seven Hundred & Ninety Five Only
10.023	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 100mm.	3.000	No	4368.05	13104.150	INR Thirteen Thousand One Hundred & Four and Paise Fifteen Only
10.024	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 150mm.	8.000	No	6829.10	54632.800	INR Fifty Four Thousand Six Hundred & Thirty Two and Paise Eighty Only
10.025	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 200mm.	2.000	No	11938.60	23877.200	INR Twenty Three Thousand Eight Hundred & Seventy Seven and Paise Twenty Only
10.026	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 350mm.	2.000	No	32029.85	64059.700	INR Sixty Four Thousand & Fifty Nine and Paise Seventy Only
11	Appendix D-Providing FHTC					



11.001	Providing 15mm (1/2 inch) house connection with 15mm water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, 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.	2536.000	Nos	7017.69	17796861.840	INR One Crore Seventy Seven Lakh Ninety Six Thousand Eight Hundred & Sixty One and Paise Eighty Four Only
11.002	Providing 15mm (1/2 inch) house connection with 15mm water meter from existing PVC / HDPE mains from 140mm to 200mm dia., up to a length of 5 m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, 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.	800.000	Nos	7110.09	5688072.000	INR Fifty Six Lakh Eighty Eight Thousand & Seventy Two Only



11.003	Providing 15mm (1/2 inch) house connection with 15mm water meter from existing AC / GI mains up to 125 mm dia., up to a length of 5m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers, GI / MS 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.	200.000	Nos	7130.59	1426118.000	INR Fourteen Lakh Twenty Six Thousand One Hundred & Eighteen Only
11.004	Providing additional length of house connection pipe using 20 mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PN16 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.	38040.000	metre	177.32	6745252.800	INR Sixty Seven Lakh Forty Five Thousand Two Hundred & Fifty Two and Paise Eighty Only
11.005	Providing 15mm PVC Tap in the water meter assembly for 15mm (1/2 inch) water connection, using 20mm (1/2 inch) Indian Standard uPVC Class 6 pipes, uPVC specials and PP PN 16 Compression specials including cost of materials, consumables, hire charges for tools and labour charges etc. complete and as per the direction of departmental officers.	3536.000	Nos	656.14	2320111.040	INR Twenty Three Lakh Twenty Thousand One Hundred & Eleven and Paise Four Only
11.006	Cost of Geo Tagging including data updation in KWA website (Including Aadhar card details, Ration card details Etc..)	3536.000	No	20.00	70720.000	INR Seventy Thousand Seven Hundred & Twenty Only
11.007	Supply of uPVC Pipe, IS 4985: 2000 , 6kg/cm2, 75mm Dia..	3889.601	metre	144.60	562436.305	INR Five Lakh Sixty Two Thousand Four Hundred & Thirty Six and Paise Thirty One Only



11.008	Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.	1200.000	metre	30.63	36756.000	INR Thirty Six Thousand Seven Hundred & Fifty Six Only
11.009	Dsmantling manually etc complete	180.000	sqm	88.43	15917.400	INR Fifteen Thousand Nine Hundred & Seventeen and Paise Forty Only
11.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	134.689	cum	8040.95	1083027.515	INR Ten Lakh Eighty Three Thousand & Twenty Seven and Paise Fifty One Only
12	Appendix E-Road restoration -PWD Roads					
12.001	For road work-Loosening and re compacting the trench for a depth of 30 cm including all cost and labour charges	16380.000	cum	265.29	4345450.200	INR Forty Three Lakh Forty Five Thousand Four Hundred & Fifty and Paise Twenty Only
12.002	Conveying the excavated earth from the site up to 1 KM distance by Mechanical transport including loading,unloading and stacking -(As per DSR 2021-Spec No 1.1.2	16380.000	cum	161.07	2638326.600	INR Twenty Six Lakh Thirty Eight Thousand Three Hundred & Twenty Six and Paise Sixty Only
12.003	PWD 4.2.A.1 - Construction of granular sub-base by providing graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401.	8190.000	cum	3011.44	24663693.600	INR Two Crore Forty Six Lakh Sixty Three Thousand Six Hundred & Ninety Three and Paise Sixty Only
12.004	((W M M)-Spec code 4.12 of PWD) -Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam-Specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base /base course on well prepared surface and compacting with vibratory roller to achieve the desired density	8190.000	cum	3099.21	25382529.900	INR Two Crore Fifty Three Lakh Eighty Two Thousand Five Hundred & Twenty Nine and Paise Ninety Only
12.005	((S S) Spec code 5.1.a of PWD) Providing and applying primer coat with bitumen emulsion (SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means.	54600.000	sqm	54.97	3001362.000	INR Thirty Lakh One Thousand Three Hundred & Sixty Two Only



12.006	((R S) Spec no 5.2.a of PWD) Providing and applying tack coat with Bitumin emulsion (RS) using emulsion pressure distributor at the rate of 0.20 to 0.30kg/sqm on the prepates bituminous surface cleaned withmechanical broom.	54600.000	sqm	10.54	575484.000	INR Five Lakh Seventy Five Thousand Four Hundred & Eighty Four Only
12.007	((B M Spec code: 5.3.2.aof PWD) Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size)	1430.000	cum	7795.74	11147908.200	INR One Crore Eleven Lakh Forty Seven Thousand Nine Hundred & Eight and Paise Twenty Only
12.008	((B C)Spec code: 5.6.2.a of PWD) Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder(NRMB) @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading -II (13.2 mm Nominal Size)	858.000	cum	10674.14	9158412.120	INR Ninety One Lakh Fifty Eight Thousand Four Hundred & Twelve and Paise Twelve Only
12.009	((Studs)-Spec code: 8.35 of PWD)- Providing and Fixing reflective road studs (raised pavement marker) made out of ASA/HIPS ABS moulded body with shanks and conforming to ASTM D 4280,reflective panel conforming to ASTM D 788,and reflectivity conforming to clause 804.4 ,including installation ,drilling,fixing with adhesive etc with two tears wararanty for the road stud as well as for in field performance as per clause 804 .7.3

Road Marker/Road stud with Lense Reflector.	600.000	No	192.79	115674.000	INR One Lakh Fifteen Thousand Six Hundred & Seventy Four Only
12.01	(Traffic safety-Spec code: 8.13 of PWD) Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads on bituminous surface @250 gms per sqm area ,the thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC :35. the finished surface to be level ,uniform,and free from streaks and holes.	1200.000	sqm	486.66	583992.000	INR Five Lakh Eighty Three Thousand Nine Hundred & Ninety Two Only



12.011	((B T)Spec code: 5.7.1 of PWD) -Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.09 mm (Type-A) aggregates using viscosity grade bitumen (VG -30) to the required line, grade, and level to serve as wearing course on a previously prepared base, including mixing in a suitable HMP of appropriate capacity not less than 75 tonnes/hour.,laying and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to the required level and grade.	26000.000	sqm	188.76	4907760.000	INR Forty Nine Lakh Seven Thousand Seven Hundred & Sixty Only
13	Appendix F Inter connection to the existing pipe and shifting existing FHTCs					
13.001	Inter connection of 90mm/110mm/160mm PVC/PE with the existing 90 mm pvc pipe line	15.000	No	2356.65	35349.750	INR Thirty Five Thousand Three Hundred & Forty Nine and Paise Seventy Five Only
13.002	Inter connection of 90mm/110mm/160mm PVC/PE with the existing 160 mm pvc/pe pipe line	5.000	No	3802.73	19013.650	INR Nineteen Thousand & Thirteen and Paise Sixty Five Only
13.003	Inter connection of 90mm/110mm/160mm PVC/PE with the existing 300mm DI/CI pipe line	5.000	No	9692.15	48460.750	INR Forty Eight Thousand Four Hundred & Sixty and Paise Seventy Five Only
13.004	inter connection of 90mm/110mm/160mm pvc/pe pipe line with the existing 250mm DI pipe	7.000	No	8792.06	61544.420	INR Sixty One Thousand Five Hundred & Forty Four and Paise Forty Two Only
13.005	Inter connection of 90mm/110mm/160mm PVC/PE with the existing 200mm DI/CI pipe line	8.000	No	7899.73	63197.840	INR Sixty Three Thousand One Hundred & Ninety Seven and Paise Eighty Four Only
13.006	shifting existing service connections to new distribution line	2500.000	No	3446.19	8615475.000	INR Eighty Six Lakh Fifteen Thousand Four Hundred & Seventy Five Only
Total in Figures					287606494.618	INR Twenty Eight Crore Seventy Six Lakh Six Thousand Four Hundred & Ninety Four and Paise Sixty Two Only
Quoted Rate in Figures			Excess (+)	3.500%	297672721.930	INR Twenty Nine Crore Seventy Six Lakh Seventy Two Thousand Seven Hundred & Twenty One and Paise Ninety Three Only
APPROVED AMOUNT					297672722	Rs. Twenty Nine Crore Seventy Six Lakh Seventy Two Thousand Seven Hundred and Twenty Two Only

Amount approved Rs.29,76,72,722 (Rupees Twenty Nine Crores Seventy Six Lakhs Seventy Two Thousand Seven Hundred and Twenty Two only) vide order No. 2091/D5M/2022/CENR-KKD dated.14.08.2022 of the Chief Engineer (NR), KWA, Kozhikode.

CONTRACTOR

SUPERINTENDING ENGINEER





List of Registered Plumbers under PH Circle Malappuram

PH Division Malappuram					
Sl No	Name	Address	Contact. No	Licence No	Validity
1	VELAYUDHAN.K	Kallidumbil(House),Munduparamba(PO),Malappuram-676505	9037928618	7/1980-81	31-03-2023
2	UMMER KORALIYADAN	m	8289843813	17/1986-87	31-03-2023
3	THOMAS. K.C.	Kunnakkattu(House),Pariyapuram(PO),Angadippuram,Malappuram	9946952552	103/EE/PHK-82	31-12-2022
4	T.UNNI	(House),Pariyapuram(PO),Angadippuram(Via)	9847695748	5/1988-89	31-03-2023
5		S/o			
6	T.K.HAMZA	Moideen,Thattarakkattil(House),Puthanangadi(PO),Angadippuram(Via),Pariyapuram	9645274227	12/1986-87	31-03-2023
7	SURESH KUMAR.K	Pratheeksha Water Ways,Karimpanakkundil(House),Kadannamanna(PO),Mankada-679324	9946206812	3/2002-04	31-03-2023
8	SURESH BABU. K	Ambalathingal(House)Kolappuram South,ARNagar,Malappuram	9995134282	1/2021-22	31-03-2023
9	SULAIMAN . V.M.	Vilakkumadathil(House),NSS College(PO),Manjeri-676122	9895841104	9/2004-06	31-03-2023
10	SUHAIL.A	S/o			
11	SUDHEESH.T	Alavi,Athanikkal(House),Cheruvayoor(PO),Edavannappara,Malappuram	9539209826	3/2013-14	31-03-2023
12	SUBRAMANIAN.M.P	Veettikattu			
13	SREENIVASAN K P	Parambil(House),Thamarasseri,Melmuri(PO),Malappuram-676517	9605002405	12/2020-21	31-03-2024
14	SREEJESH.M.P	Poothodi(House),Mundakasseri, Vazhayoor East(PO),Ramanattukkara(Via)-673633	9846253047	2/2018-19	31-03-2023
15			9446632356	3/1997-98	31-03-2023
16		Melepurakkal(House),Ponmala(PO),Othukkungal(Via),Malappuram-676528	9895502868	6/2019-20	31-03-2023

14	SHEK ABDUL KAREEM .E	Popular Water Ways,Ezhuthumthodi(House), Vazhakkad,Cheruva yoor(PO),Malappuram-673640	9495946181	19/1992-93	31-03-2023
15	SHARAFALI.K.P.		9747029061	1/2017-18	31-03-2023
16	SHAJAHAN.K	Manzil,Mullampara,Manjeri(PO),Malappuram-676121	8547017701	2/1996-97	31-03-2023
17	SASEENDRAN. K.C.	Valakkottiri(House),Karad(PO), Vaniyambalam(Vi a),Malappuram-679339	8606150784	10/2020-21	31-03-2022
18	SAJI MON.K	Kalampara(House),Thuvvoor(PO),Malappuram	9447516723	1/2018-19	31-03-2023
19	SAIDALAVI . V.P		9656760318	2/2016-17	31-03-2023
20	SADIQ FAISAL.N	Elayodath(House),Melmuri(PO),Alathurpadi,Mala ppuram	9744341619	3/2018-19	31-03-2023
21	SADIK.P.K.		9447423889	4/2016-17	31-03-2023
22	RUHUSMON. V.M.	Puthiyakalathil(House),Chathangottuppuram(PO), W andoor-679328	9446158981	1/2005-07	31-03-2023
23	RAMSHI. T.P	Thondiparambil(House), Vadakkummuri, Urungatti ri(PO),Areekode(Via),Malappuram	9946455936	2/2015-16	31-03-2023
24	RAJEESH.P.P.	Puliyakkottuparambil(House),Pulinkavu,Cherukar a(PO),Malappuram-679340	9656653182	5/2019-21	31-03-2023
25	RAFEEQU. P. K.	S/o Abdullakkutty,Payyanakkuthu(House),Chandakku nu(PO),Nilambur	9447515886	E1/2004-05	31-03-2023
26	RAFEEQ BABU. U	Thenjeriparambil(House),Pannicode(PO),Mukkam (Via)-673602	9544505757	1/2000-02	31-03-2023
27	PRAVEEN. K.K.	Pranavam,Elayoor,Iruvetty(PO),Malappuram	9447446909	14/2020-21	31-03-2024
28	P.USMAN	Pattani(House),Peedikapadi,Cherakkaparamba(PO),Angadippuram,Malappuram *679321	8921560461	3/1985-86	31-03-2023
29	P.SUNILKUMAR	Pathiyil, Valappil(House), Velimukku(PO), Thazhe Chelari, Malappuram	9746640944	1/2007-08	31-03-2023



30	P.SHAUL HAMEED	Palakkal(House),Down Hill(PO),Malappuram-676519(FRIENDS PLUMBERS,DOWN HILL' MALAPPURAM)	9447150674	3/1991-92	31-03-2023
31	P.N. SUDHEER RAJ	anjari(New Address-Pulikkal(House),Kulirma,Arukizhaya,Manjeri(PO)-676121	9633946667	6/1980-81	31-03-2023
32	P.MOHAMMED	S/o Kammukutty,Chalukundil(House),Thazhathangadi,Areacode(PO),Malappuram(Dist)	9947086292	3/1988	31-03-2023
33	P.KRISHNAN	Gayathri(House),Kalluvettipparamba,Down Hill(PO),Malappuram-676519	8089833656	9/1986-87	31-03-2023
34	P.K.M.BEERANKUTTY	Poozhikunnan(House),Chandakunnu,Manjeri(PO)-676121	8136835006	2/1980-81	31-03-2023
35	P.CHANDRAN	Winner Plumbers,Parammal(House),Koottilangadi(PO),Malappuram-676506	9446768370	1/2002-04	31-03-2023
36	NITHIN.O	Plumbers,Nandhanam(House),Vellayoor(PO),Malappuram	9745266775	6/2018-19	31-03-2023
37	N.K.MOHAMMED ALI	Nambikunnu(House),Shappinkunnu,Pulpatta(PO),Manjeri-676123	9495511384	5/2002-04	31-03-2023
38	MURALEEDHARAN.T	Soumya Water Ways,THalachil(House),Angadipuram-679321	9496364968	11/1984-85	31-03-2023
39	MUHSIN. O	Ottakath(House), Vannilaparambu,Maithra(PO),Areacode(Via),Malappuram-673639	8156995250	3/2016-17	31-03-2023
40	MUHAMMED JAMSHIL.C	Chelakadan(House),Eranhikkode(PO),Edavanna, Malappuram-676541	8848381532	5/2018-19	31-03-2024
41	MUHAMMED HASHIM.V	S/o Muhammedali, Vadakkan(House),North Kozhakootture,Areacode,Malappuram-673639	9846711701	11/2004-06	31-03-2023
42	MOHAMMED KUTTY.P	Star Plumbing & Sanitary Works,Near Hanafi Masjid,Calicut Road,Perinthalmanna	9847300912	3/1984-85	31-03-2023



43	MOHAMMED ANEES.P	Works, Near Hanafi Masjid, KSTA Road, Perinthalamanna	9747009570	4/2020-21	31-03-2022
44	MOHAMMED RAFEQUE. K.P	Parambil(House), Kondotty(PO), Malappuram-673638	8921373114	4/2004-06	31-03-2023
45	MANU THOMAS	Little Home, T.B.Road, Lemon Valley, Angadippuram(PO), Malappuram-679321	9656036367	5/2017-18	31-03-2023
46	MAHBOOB.K	Karangadan(House), Kuniyil, Keezhuparamba(PO), Areacode(Via), Malappuram-673639	9495914433	3/2004-06	31-03-2023
47	M.HAMZA	Maniyankunnan(House), Kattuppara, Chelakkad(P O), Pulamanthole(UNIVERSAL PLUMBING WORKS, KATTUPPARA)	9447346156	1/2001-03	31-03-2023
48	KUTTYKRISHNAN. A	Ozhalamkundu(House), Palakkad(PO), Kuzhimanna(Via), Malappuram-673641	9946231266	11/2020-21	31-03-2022
49	KUNHUNNI. P	Padara(House), Kakkulam(PO), Pandikkad-676521	9446671412	3/2001-03	31-03-2023
50	KRISHNAN KUTTY.M.P	Kannancheri(House), Chelari, Velimukku(PO), Malappuram-676317	8113888535	6/2021-22	31-03-2024
51	KHAMARUDHEEN. K	676122	9495966418	2/2005-07	31-03-2023
52	KAMAL IRSHAD.C		9747507071	11/2020	31-12-2022
53	K.UMMER	Nagar, Malappuram-679321(Hima Bindu Water Ways)	9037146011	2/1988-89	31-03-2023
54	K.SADANANDAN	Melarkode(House), Manikkapuram-114, Angadippuram(PO), Malappuram-679321	9895380499	7/1983-84	31-03-2023
55	K.M.MOHANAKUMARAN	S/o K.M.Kamaladevi Amma, Sree Sylam, KSEB - Cheri road, Munduparamba(PO), Malappuram	9447443669	7/1981-82	31-03-2023
56	K.HAMZA	Checku, Kinathiyil(House), Angadippuram(PO), Near Angadippuram Panchayath Office	8547253830	6/1984-85	31-03-2023
57	JIBIN.T		7510388613	4/2021-22	31-03-2023
58	JAHFAR. P.K.	Panakkadan(House), Thachanna, Mythra(PO), Areacode, Malappuram-673639	7356567654	8/2019-21	31-03-2023
59	IRSHAD ALI .U.P.	Paramban(House), Pullangode(PO), Srambikkallu, Kalikkavu	9526693243	8/2020-21	31-03-2024





60	HYDER ALI. N.K	Manjeri	9745679086	2/1984-85	31-03-2023
61	HANEEFA TP	MINCO PLUMBERS, Theyyathumpeedikakkal(House), Vellila(PO), Man kada-679324	9048794151	1/2014-15	31-03-2023
62	GIREESHAN. N.P.	Nambidiparambath(House), Velimukku South(PO),Moonniyoor,Malappuram-676317	9645139104	7/2020-21	31-03-2024
63	C.G.PUNNOOSE	Senry Plumbers, Chandakkunnu(PO), Nilambur	9447441051	1/1988-89	31-03-2023
64	ANTONY.V.P.	Orient Plumbers, Kozhikkode Road, Manjeri	9995337674	14/1983-84	31-03-2023
65	ANOOP.G	S/o Gangadharan Unnithan, Pulari(House), Vettilappara(PO), Areaco de(Via), Malappuram-673639	9745831240	3/2013-14	31-03-2023
66	AMEERALLIP	Plumbers, Kidangazhi, Manjeri, Puthalath(House), K idangazhi, Karuvambram(PO), Manjeri, Malappura m-676123	9539327307	2/2007-08	31-03-2023
67	ABOBACKER SIDDIQUE	Rayan Plumbers, Manjeri-676122	7511142194	4/2018-19	31-03-2023
68	ABOBACKER .M.K.	Manikyam Kandiyil(House), Peringalam(PO), Calicut-673571	9846653494	11/2004-05	31-03-2023
69	ABDUL SATHAR. A	Thodumanni(House), Perimbalam(PO), Mundupar amba-676509	8594065384	5/2004-06	31-03-2023
70	ABDUL MAJEED.T		9895205937	1/2006-07	31-03-2023
PH Division Edappal					
SI No	Name	Address	Contact. No	Licence No	Validity
1	M.Rajeshkumar	Madatheri House Puzhampuram, Biyyam, Ponnani- 679586	9895168707	EP 9/87-88	31/03/2021- 31/03/2023
2	Manikandan.C.P	Chulliparambil (H) Chamravattom (PO) Tirur-- 676102	9645653076	AB2- 02/13-14	01/04/2021- 31/03/2023
3	Prajesh.K	Kannarambath (H) Purathur(PO)-676102	9847615566	AB5-2/2001	01/04/2021- 31/03/2023
4	Venugopal.T	Palakottil House, Painkannur PO, Kuttippuram, Malappuram -679571	9895325448	EP-3/88-89	01/04/2021- 31/03/2023

5	Abdul Lathief N.V	Nedusseri valappil (H) Ezhuvathiruthy, Ponnani-679577	9847169371	EP 1/90-91	01/04/2021-31/03/2023
6	K.Sumildas	Karumathil (H) Ayilakkad (PO) Edappal-679576	9349194599	EP 2/89-90	01/04/2021-31/03/2023
7	A.Kumaran	Alakkassery (H) Chanaroad ,(PO) Ponnani-679577	9847376769	EP 6/87-88	01/04/2021-31/03/2023
8	Aneesh.K.V	Kalloor valappil (H) Ananthavoor (PO) kundilangadi Malappuram-676301	9747652782	AB2- 01/15-16	01/04/2021-31/03/2023
9	V.Gopinathan	Valappilakath (H) Ezhuvathiruthy, Ponnani-679577	9249312635	AB5- 01/2002	01/04/2021-31/03/2023
10	Akhil.T	Kunnathparambill, Sivadam Nivas Chaliyam,Kozhikkode-673301	96333787008	AB- 04/18	01/04/2021-31/03/2023
11	Jinu.K.P	Kallingal (H) Tanur (PO) -676302 Chirakkal Malappuram	7558093509	01-2018	01/04/2021-31/03/2023
12	M.Hamza	Manaiyankunnan House,Kattuppara Chelakkad(PO),Pulamanthole-679323	7909101611	AB2-7597/96	01/04/2021-31/03/2023
13	Ganesan.M	Munayath (H), Mattannur (PO), Mangalam-676561	9495274240	AB-3/2018	01/04/2021-31/03/2023
14	Sajith P.S	Pazhamthottu Valappil (H), Kumbidi (PO)-Palakkad (Dist)-679553	9605143868	.02-2021	01/04/2021-31/03/2023
15	Shinoj .M.P	Modan Parambil (H), Purathur(po), Tirur-2, Pin-676102	9744884829	.01-2021	01/04/2021-31/03/2023
16	Sangeerth.E.P	Erinjikkattupadi (H), Nannammukku (PO) ,679575	9995884423	AB2-01/16-17	01/04/2021-31/03/2023
17	Pradeep K.P	Kacheri Parambil, Ozhur (PO)-Thanalur, 676307	9961016654	.01/2019	01/04/2021-31/03/2023
18	P.M.Unnikrishnan	Puthanpura Janani -Pallappuram,Ponnani-679577	9846728627	EP 6/89-90	31/03/2021-31/03/2023
19	Manoj.K	Sreevalsam (H) Chemmad, Thirurangadi (PO) Malappuram-676306	9061729428	AB-02/2018	01/04/2021-31/03/2023



20	Janardhanan P	Palliyeri (H) Annara (PO) -Tirur 676101	9526384006	EP2 85/86	01/04/2021- 31/03/2023
21	Sadarudheen.P	Parammal (H) Kott Alinchuvad, Thalakkadathur ,Tirur-676101	9895290948	AB5- 3/03	01/04/2021- 31/03/2023
22	Dharmarajan.K.P	Kannayil Parambil (H) Thattanpadi Edappal- 679576	9539938326	AB2- 1/13-14	01/04/2021- 31/03/2023
23	M.Velayudhan	Manhakkattu (H) Mudur (PO) Vattamkulam - 679578	9447335838	AB-489/84	01/04/2021- 31/03/2023

