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KERALA WATER AUTHORITY

**Office of the Superintending Engineer,
P.H.Circle, Kalmandapam, Palakkad.**

No. kWA/PHC/PKD/AMRUT/Mannarkkad/2023

Dated: 21.11.2023

From

Superintending Engineer

To

Sri. Fakrudheen Ali Ahammed U,
Ummathoor House,
Kavungal, Uphill (PO),
Malappuram. 676505

Sir,

Sub:- AMRUT 2.0- Augmentation of UWSS to Mannarkkad Municipality-
Construction of 6 LL OHSR, supply and erection of clear water pump sets,
supply and laying of clear water pumping main & distribution system,
providing 1400 FHTCs including PWD & LSGD road restoration- work order
issuing – reg:-

Ref:- 1. Tender No. 33/23-24/SE/PHC/PKD dated. 07.09.2023
2. Proceedings No. KWA/CE/NR/D11/T33 dated.15.11.2023 of the Chief
Engineer, Northern Region, Kozhikkode.

With reference to the above, you are informed that your tender for the above work has been accepted at your negotiated quoted amount of Rs. 5,72,58,082/- (Rupees Five Crore Seventy Two Lakhs Fifty Eight Thousand and Eighty Two only) which is 5.06% above the tendered PAC of Rs. 5,44,99,227/- (excluding GST). You are requested to attend this office on or before 06.12.2023 with stamp paper worth Rs. 57,260 /- (Rupees Fifty Seven Thousand Two Hundred and Sixty only) and security deposit mentioned below and execute the agreement and start the above work within a week after getting necessary instructions from the Executive Engineer, PH Division, Shornur.

Before executing the agreement on stamp paper you should deposit an amount of Rs. 17,17,742/- (Rupees Seventeen Lakhs Seventeen Thousand Seven Hundred and Forty Two only) ie, 3% of accepted PAC as performance guarantee as per GO(P) No. 54/2019/Fin dated. 04/05/2019 and GO (P) No. 168/2019/Fin dated. 07/12/2019. At least 50% of this amount shall be furnished in the form of Treasury fixed deposit as per NIT duly pledged in favour of the Superintending Engineer, P.H. Circle, Kerala Water Authority, Palakkad and rest shall be in the form of guarantee issued from any Nationalized Bank or Scheduled Bank or Kerala Financial Corporation or any other forms prescribed in the PWD manual as security for the fulfillment of the contract. The contractor will be eligible for applicable GST at applicable rate over and above the awarded amount.



In compliance with the judgment dated 11.02.2022 of the Hon`ble High Court of Kerala in WP(c) Nos 18234 & 18399 of 2020, the connection shall only be provided through the licensed Plumbers and the number of connections have to be distributed in such a way that each Plumber can get an equitable number of connections.

Any failure to this direction will result in further action as per NIT conditions. The work should be completed within 12 (Twelve) months from the date of award of the work.

Yours faithfully,
Suraja Nair
Superintending Engineer

Copy To

Copy submitted to the Chief Engineer (NR), Kozhikkode

Copy submitted to the Finance Manager & Chief Accounts officer, Jalabhavan, KWA, Thiruvananthapuram.

Copy submitted to the RAO, KWA, Thiruvananthapuram.

Copy to Agreement.

Copy to Executive Engineer, PH Division, Shornur.

Encl:

LOA & Accepted schedule



LETTER OF ACCEPTANCE

To,

Sri/Smt M/s.FAKRUDHEEN ALI AHAMMED

PAN : AALPU9996Q

Your e-Tender No WRD/KWA-CE(NR)/TR/12723/2023_26_1_1/1 dated 29-09-2023 for the AMRUT-AMRUT 2.0-AUGMENTATION OF UWSS TO MANNARKKAD

MUNICIPALITY- PROVIDING FHTCS AND PIPE LINE EXTENSION-Pipeline Work has been accepted for a quoted amount of **Rs. 57258082/- (Rupees Five Crore Seventy Two Lakh Fifty Eight Thousand Eighty Two only)** based on rates quoted for **individual items** which is mentioned in the accompanying schedule. You are directed to submit the stamp GRN ID/Stamp paper, Performance Guarantee and Additional Performance Guarantee as mentioned below and execute an agreement and start the work within a week after getting necessary instructions from the **Executive Engineer(P H Division Shornur),Assistant Executive Engineer(Public Health Sub Division Ottapalam) and Assistant Engineer(Public Health Section Mannarkkad)**. The time allowed for executing agreement without fine will be **28 (Twenty Eight)** days from the date of issue of letter of acceptance and a further period of **10 (Ten)**days time will be allowed to execute the agreement after realizing a fine of **Rs. 25000/- (Twenty Five Thousand Only) .** This fine shall be remitted in favour of the Managing Director, Kerala Water Authority, Account No - STSB 701011400000181, District Treasury, Thiruvananthapuram through e-treasury payment gateway.

1. stamp paper required value **RS. 57260/- (Fifty Seven Thousand Two Hundred and Sixty Only)** shall be submitted to the Agreement Authority. (subject to govt orders)

2. Before executing the agreement, you should deposit a Performance Guarantee of **3%** of contract value, ie. **Rs. 1717742/- (Rupees Seventeen Lakh Seventeen Thousand Seven Hundred and Forty Two only)** and should be submitted within **28 (Twenty Eight)** days of receipt of this LOA (Letter of Acceptance) as below.

a) At least **Fifty (50%)** of Performance Guarantee shall be in the form of Treasury Fixed Deposit in the name of Agreement Authority for a period not less than 28 (twenty eight) days after the completion of defect liability period.

b) Balance Performance Guarantee shall be in the form of bank guarantee. Bank Guarantee is to be submitted in the format prescribed by the Employer in the bid document. Bank Guarantee shall be unconditional and it shall be from any Nationalized/ Scheduled Bank/ Kerala Financial Corporation/ District Co-operative Banks, Primary Co-operative Banks, Urban Co-operative Banks or any other forms prescribed in the revised PWD Manual to be submitted before executing agreement and shall be valid till 28 (twenty eight) days after the completion of defect liability of the Work, in approved format. The Bank Guarantee on instalment basis with lesser period of validity shall not be accepted.

3. An Additional Performance Guarantee of **Rs. 0/- (Rupees only)** shall be also deposited for unbalanced price in addition to the normal Performance Guarantee in the following form and it should be to be submitted before executing agreement.

a) At least Fifty percent (50%) of Additional Performance Guarantee shall be in the form of Treasury Fixed Deposit in the name of Agreement Authority for a period not less than 28 (twenty eight) days after the completion of the work.

b) Balance Additional Performance Guarantee Treasury shall be in the form of bank guarantee. Bank Guarantee is to be submitted in the format prescribed by the Employer in the bid document. Bank Guarantee shall be unconditional and it shall be from any Nationalized/ Scheduled Bank/ Kerala Financial Corporation/ District Co-operative Banks, Primary Co-operative Banks, Urban Co-operative Banks or any other forms prescribed in the revised PWD Manual and shall be valid till 28(twenty eight) days after the completion of the Work, in approved format. The Bank Guarantee on instalment basis with lesser period of validity shall not be accepted.

OR

a) Full amount of additional performance guarantee shall be accepted in case of guarantees issued by Kerala Financial



Corporation

4. In addition to Performance Guarantee and Additional Performance Guarantee, Performance Security Deposit at the rate 2.5% of Bill amount will be deducted from running bills .

5. Solicitor's fee, if any, to be paid to the Law Officers of Government for scrutinising or drawing up of agreements- will be paid and the same recovered from the successful bidder.

6. You are requested to take an Insurance cover for this work for an amount of Rs. **286290 /- (Rupees Two Lakh Eighty Six Thousand Two Hundred and Ninety only)** and submit the same within 15 days of Start of work subjected to the provisions provided in the Bid Document. 0.2% of the Contract Amount will be deducted in the event of failure to submit the Insurance to the concerned Authorities as noted above. (The value shall be generally 0.5% of the Contract Value subject to a minimum of Rs. 2.00 lakh and maximum of Rs. 5.00 lakh.).

7. Engineering personnel in addition to other supporting staff as detailed below for tenure of the contract for works supervision shall be employed.

Works Manager- 1no.(Civil Engineering Graduate with minimum 3 years experience), Site Engineer - 2 nos (1 no for supervision and 1 no for Quality Control) (Civil Engineering graduate with minimum 1 year experience), Supervisor - 2 nos (Civil Engineering Diploma holder with minimum 1 year experience) and Supervisor(Mechanical) (if required) - 1 no (Mechanical Engineering Diploma holder with minimum 1 year experience).

8. The Contractor shall enter into a Contract Agreement with the Agreement Authority within 28 Twenty Eight working days from the date of 'Acceptance of Tender' or within such extended time as may be granted by the Agreement Authority. The date of despatch of Letter of Acceptance through Contractors Portal shall be the date of Acceptance of Tender.

9. In the eventuality of failure to produce the original documents, or submit the performance security, or enter into agreement with the Agreement Authority within the specified time limit, the Bidder shall be debarred in future from participating in all Government Bids for three years and will be recommended for blacklisting by the competent authority. In such cases, the Government may rearrange the work otherwise or get it done departmentally at the risk and the cost of the Bidder and the loss so sustained by the Government can be realized from the Bidder under the Revenue recovery Act or otherwise the Government may decide.

10. The work should be completed in all respects within **1 year** from the date of handing over the site.

11. Defect Liability period will be **5 years**

12. All the details mentioned above shall be submitted to the Agreement Authority within 14 (fourteen) days from the date of 'Acceptance of Tender' or within such extended time as may be granted by the Agreement Authority.

13. All the terms and conditions of the Notice Inviting tenders and tender shall be binding on the Contractor.

Suraja Nair(G11539)
Superintending Engineer



ACCEPTED SCHEDULE

Name of Work: AMRUT-AMRUT 2.0-AUGMENTATION OF UWSS TO MANNARKKAD MUNICIPALITY- PROVIDING FHTCS AND PIPE LINE EXTENSION-Pipeline Work (DSR 2018 with Cost Index 134.75)

Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
1	APPENDIX - I - CONSTRUCTION OF OHSR OF 6 LAKH LITRES CAPACITY & ALLIED WORKS AT SIVANKUNNU					
1.001	2.31 - Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	376.000	sqm	15.94	5993.44	Rupees Five Thousand Nine Hundred Ninety Three And Forty Four paise Only
1.002	2.33.1 - Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 30 cm girth up to and including 60 cm girth	5.000	each	484.25	2421.25	Rupees Two Thousand Four Hundred Twenty One And Twenty Five paise Only
1.003	2.1.1 - Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed.All Kinds of soil	376.000	sqm	117.78	44285.28	Rupees Forty Four Thousand Two Hundred Eighty Five And Twenty Eight paise Only
1.004	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	89.489	cum	231.35	20703.28	Rupees Twenty Thousand Seven Hundred Three And Twenty Eight paise Only
1.005	2.7.1 - Earth work in excavation by mechanical	120.809	cum	448.44	54175.59	Rupees Fifty Four Thousand



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. Ordinary rock					One Hundred Seventy Five And Fifty Nine paise Only
1.006	4.1.6 - 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 40 mm nominal size)	26.099	cum	7794.95	203440.40	Rupees Two Lakh Three Thousand Four Hundred Forty Zero And Forty Zero paise Only
1.007	4.1.8 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	6.563	cum	7366.62	48347.13	Rupees Forty Eight Thousand Three Hundred Forty Seven And Thirteen paise Only
1.008	5.33.1 - 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	52.720	cum	10175.67	536461.32	Rupees Five Lakh Thirty Six Thousand Four Hundred Sixty One And Thirty Two paise Only
1.009	5.33.2 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using	293.089	cum	11961.55	3505798.73	Rupees Thirty Five Lakh Five Thousand Seven Hundred Ninety Eight And Seventy



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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					Three paise Only
1.010	5.34.1 - 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).	143.510	cum	88.73	12733.64	Rupees Twelve Thousand Seven Hundred Thirty Three And Sixty Four paise Only
1.011	13.21 - Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	1148.080	kg	1.52	1745.08	Rupees One Thousand Seven Hundred Forty Five And Eight paise Only
1.012	22.4.1 - Providing and Placing in position suitable PVC water stops conforming to IS : 12200 for construction / expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete: Serrated with central bulb (225 mm wide, 8-11 mm thick)	174.600	metre	360.36	62918.86	Rupees Sixty Two Thousand Nine Hundred Eighteen And Eighty Six paise Only
1.013	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	238.920	sqm	362.46	86598.94	Rupees Eighty Six Thousand Five Hundred Ninety Eight And Ninety Four paise Only
1.014	5.9.2 - Centering and shuttering including strutting,	407.400	sqm	775.26	315840.92	Rupees Three Lakh Fifteen



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.					Thousand Eight Hundred Forty Zero And Ninety Two paise Only
1.015	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	780.160	sqm	881.79	687937.29	Rupees Six Lakh Eighty Seven Thousand Nine Hundred Thirty Seven And Twenty Eight paise Only
1.016	5.9.5 - Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers	539.360	sqm	702.41	378851.86	Rupees Three Lakh Seventy Eight Thousand Eight Hundred Fifty One And Eighty Six paise Only
1.017	5.9.6 - Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	555.120	sqm	933.52	518215.62	Rupees Five Lakh Eighteen Thousand Two Hundred Fifteen And Sixty Two paise Only
1.018	5.9.7 - Centering and shuttering including strutting, etc. and removal of form for: Stairs, (excluding landings) except spiral - staircases)	17.640	sqm	791.84	13968.06	Rupees Thirteen Thousand Nine Hundred Sixty Eight And Six paise Only
1.019	5.9.16.1 - Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Under 20 cm wide	37.225	metre	220.43	8205.51	Rupees Eight Thousand Two Hundred Five And Fifty One paise Only
1.020	5.9.16.2 - Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Above 20 cm wide	16.280	sqm	938.16	15273.24	Rupees Fifteen Thousand Two Hundred Seventy Three And Twenty Four paise Only
1.021	5.11.1 - 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)	206.080	sqm	365.79	75382.00	Rupees Seventy Five Thousand Three Hundred Eighty Two Only
1.022	5.22.6 - Steel reinforcement	41497.080	kilogra	106.25	4409064.75	Rupees Forty



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more		m			Four Lakh Nine Thousand Zero Sixty Four And Seventy Five paise Only
1.023	2.25 - Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	162.848	cum	279.48	45512.76	Rupees Forty Five Thousand Five Hundred Twelve And Seventy Six paise Only
1.024	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with: Cement mortar 1:6 (1 cement : 6 coarse sand)	49.219	cum	7788.06	383320.53	Rupees Three Lakh Eighty Three Thousand Three Hundred Twenty And Fifty Three paise Only
1.025	50.6.1.8 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x15cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level with thickness 15cm in: CM 1:6 (1 cement : 6 coarse sand etc complete	29.850	cum	7556.11	225549.88	Rupees Two Lakh Twenty Five Thousand Five Hundred Forty Nine And Eighty Eight paise Only
1.026	9.48.2 - Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings/ wooden frames with rawl plugs screws etc	150.000	kg	233.46	35019.00	Rupees Thirty Five Thousand Zero Nineteen Only
1.027	13.7.2 - 12 mm cement plaster finished with a floating coat of neat cement of mix:1:4 (1 cement : 4 fine sand)	316.000	sqm	417.66	131980.56	Rupees One Lakh Thirty One Thousand Nine Hundred Eighty Zero And Fifty Six paise Only
1.028	13.7.1 - 12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 (1 cement : 3 fine sand)	2976.374	sqm	433.70	1290853.40	Rupees Twelve Lakh Ninety Zero Thousand Eight Hundred Fifty Three And Forty Zero paise



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
						Only
1.029	13.18 - Neat cement punning	435.560	sqm	79.81	34762.04	Rupees Thirty Four Thousand Seven Hundred Sixty Two And Four paise Only
1.030	13.22 - Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	1157.284	sqm	83.89	97084.55	Rupees Ninety Seven Thousand Zero Eighty Four And Fifty Five paise Only
1.031	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	2503.174	sqm	76.37	191167.40	Rupees One Lakh Ninety One Thousand One Hundred Sixty Seven And Forty Zero paise Only
1.032	13.48.1 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of special primer applied @ 0.75 ltr/10 sqm	2503.174	sqm	180.90	452824.18	Rupees Four Lakh Fifty Two Thousand Eight Hundred Twenty Four And Eighteen paise Only
1.033	10.26.3 - Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.G.I. pipes	1797.120	kg	201.06	361328.95	Rupees Three Lakh Sixty One Thousand Three Hundred Twenty Eight And Ninety Five paise Only
1.034	100.41.33 - Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.	2.000	no	8114.82	16229.64	Rupees Sixteen Thousand Two Hundred Twenty Nine And Sixty Four paise Only
1.035	50.18.9.22.8 - Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl	15.000	no	134.46	2016.90	Rupees Two Thousand Zero Sixteen And Ninety Zero paise Only
1.036	10.28 - 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	100.000	kg	735.47	73547.00	Rupees Seventy Three Thousand Five Hundred Forty Seven Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.)					
1.037	13.61.1 - Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	63.000	sqm	154.62	9741.06	Rupees Nine Thousand Seven Hundred Forty One And Six paise Only
1.038	50.2.26.1 - Filling with contractor own earth (excluding rock) in open areas in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge.	50.000	cum	319.42	15971.00	Rupees Fifteen Thousand Nine Hundred Seventy One Only
1.039	18.73.3 - Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :200 mm dia Ductile Iron Double Flanged	20.000	metre	3691.52	73830.40	Rupees Seventy Three Thousand Eight Hundred Thirty Zero And Forty Zero paise Only
1.040	18.73.4 - Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :250 mm dia Ductile Iron Double Flanged	36.000	metre	5236.62	188518.32	Rupees One Lakh Eighty Eight Thousand Five Hundred Eighteen And Thirty Two paise Only
1.041	18.73.7 - Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :400 mm dia Ductile Iron Double Flanged	16.000	metre	10867.92	173886.72	Rupees One Lakh Seventy Three Thousand Eight Hundred Eighty Six And Seventy Two paise Only
1.042	18.30.5 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200	10.000	no	452.36	4523.60	Rupees Four Thousand Five Hundred Twenty Three



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	mm diameter pipe					And Sixty Zero paise Only
1.043	18.30.6 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:250 mm diameter pipe	18.000	no	616.75	11101.50	Rupees Eleven Thousand One Hundred One And Fifty Zero paise Only
1.044	18.30.9 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:400 mm diameter pipe	8.000	no	1152.78	9222.24	Rupees Nine Thousand Two Hundred Twenty Two And Twenty Four paise Only
1.045	18.68.1 - Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia	5.190	quintal	21750.63	112885.77	Rupees One Lakh Twelve Thousand Eight Hundred Eighty Five And Seventy Seven paise Only
1.046	100.98.462 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 250mm.	1.000	no	37375.35	37375.35	Rupees Thirty Seven Thousand Three Hundred Seventy Five And Thirty Five paise Only
1.047	100.98.465 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 400mm.	1.000	no	103197.90	103197.90	Rupees One Lakh Three Thousand One Hundred Ninety Seven And Ninety Zero paise Only
1.048	100.31.1.6 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 250mm diameter, Class I.	1.000	no	2386.83	2386.83	Rupees Two Thousand Three Hundred Eighty Six And Eighty Three paise Only
1.049	100.31.1.9 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 400mm diameter, Class I.	1.000	no	4946.87	4946.87	Rupees Four Thousand Nine Hundred Forty Six And Eighty Seven paise Only
1.050	OD 37240/2023-2024 - Supplying and fixing Lightning Arrester including lightning conductor of GI 7/10" SWG (10mm) diameter standard wire with	1.000	no	126336.40	126336.40	Rupees One Lakh Twenty Six Thousand Three Hundred Thirty Six And Forty Zero paise



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	lightning rod of 25mm diameter, 0.9 meters long with earth electrode 25mm diameter, 2.75 meters long GI pipe from ground level connecting 50mm diameter, 1.40 meters long perforated GI pipe including fixing of clamps as per IS:2309. fixing all accessories etc complete					Only
1.051	OD37246/2023-2024 - Supplying fabricating conveying and fixing water level indicator made in GI sheet of 3mm (or nearest thickness), of 20cm minimum width and required height in full water level, painted, lettering done by using superior quality paint after applying primer, in suitable colour as per directions, fixing at a level to avoid any damages, fixing nylon rope, pulley arrangement, standard quality float, etc. as per direction of engineer at site.	1.000	no	10877.00	10877.00	Rupees Ten Thousand Eight Hundred Seventy Seven Only
1.052	OD37248/2023-2024 - Supplying and installing a electro-magnetic flow meter conforming to protection level of IP-68 for flow sensor and IP-67 for transducer and having an accuracy level of 0.5% with LED/LCD display unit suitable to measure the discharge of transmission main of 300mm dia. The flow meter should have the housing (flow sensor) to be made of ss304/carbon steel with anti corrosive protection and inside liner to be made up of hard rubber/neoprene all confirming to drinking water standards. The flow meter should be coupled with HART for data acquisition and transfer with provision for wireless transfer through GSM. The manufacturers should have the calibration standards as per ISO 17025 and the product shall have sufficient warranty provisions. Product should be tested and calibrated at FCRI, Palakkad and test certificate should be produced. Flow meter should be calibrated with physical measurement at	1.000	no	205928.30	205928.30	Rupees Two Lakh Five Thousand Nine Hundred Twenty Eight And Thirty Zero paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	site after installation. A battery back up of min. 24 hrs should be provided.					
1.053	OD 37247/2023-2024 - Supplying, providing and fixing solar power street light 50w capacity of reputed make including cost of solar panels, battery, bulb & necessary GI post for fixing solar light including cost conveyance and all labour charges etc. complete	1.000	no	27192.50	27192.50	Rupees Twenty Seven Thousand One Hundred Ninety Two And Fifty Zero paise Only
1.054	100.1.1 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.	125.000	cum	600.51	75063.75	Rupees Seventy Five Thousand Zero Sixty Three And Seventy Five paise Only
1.055	100.1.5 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm 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, in Ordinary Rock.	125.000	cum	872.05	109006.25	Rupees One Lakh Nine Thousand Zero Six And Twenty Five paise Only
1.056	100.98.55 - Supply of RCC Pipe NP2 Class, 300mm Dia.	200.000	metre	757.56	151512.00	Rupees One Lakh Fifty One Thousand Five Hundred Twelve Only
1.057	100.26.2.5 - Laying 300 mm R. C. Pressure Pipes Class P2 including specials and fittings after conveying them within initial lead carefully lowering into trenches, placing in position ready for jointing	200.000	metre	343.80	68760.00	Rupees Sixty Eight Thousand Seven Hundred Sixty Zero Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	including lighting, watching, fixing, caution boards etc., complete (excluding cost of pipe).					
1.058	100.24.9 - Jointing 300mm A. C. pipes laid to lines and levels in the trenches using C. I. detachable or any available type of joints after cleaning the ends, centering the pipes inserting the joints and tightening including conveying the materials within initial lead and other sundries etc., complete to make a water tight joint capable to withstand the required pressure (excluding cost of CID Joint).	40.000	joint	305.82	12232.80	Rupees Twelve Thousand Two Hundred Thirty Two And Eighty Zero paise Only
1.059	13.71 - Lettering with black Japan pint of approved brand and manufacture	1500.000	per Letter per cm height	6.02	9030.00	Rupees Nine Thousand Zero Thirty Zero Only
2	APPENDIX - II - SUPPLY AND ERECTION OF CLEAR WATER PUMPSETS					
2.001	OD38545/2023-2024 - Supplying and erection, testing and commissioning of 60 HP Centrifugal Horizontal Split Case Pump set having a speed of 1450 rpm & duty conditions of 39.59 lps discharge against a total head of 79 m for Pumping Clear water from the existing WTP sump - 2Nos (Parallel pumping), 1 no stand by (50 %) Total 3 nos KWA pre-qualified reputed make Centrifugal pump sets with Bronze / SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete. Valves: Supplying not below 150 mm dia Cast Stainless Steel D/F Non Return Valve P.N 1.6 (Swing Check valve) of reputed make , Supplying 150 mm diameter Cast steel D/F Sluice Valve P.N 1.6 -1 Nos fitting of valves should include proper RCC support	180.000	HP (Horse power)	26895.11	4841119.80	Rupees Forty Eight Lakh Forty One Thousand One Hundred Nineteen And Eighty Zero paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>especially for NON return valves. Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 10 mm (for a total length of 30 m, 10 m/each pump) suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolt IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main. Linking with pumping main including MS fabrication works (MS delivery pipe shall be not below 150 mm dia up to valves, and 200 mm dia after combining of 2 pumps, thickness shall not be below 10 mm) including supply and erection priming pump not below 2 HP 2 nos including all accessories, Combined efficiency of pump and motor shall not be less than 70 %</p> <p>Guarantee for the above pump sets 2 years including maintaining the pump sets during the guarantee period of 2 years.</p>					
2.002	<p>OD38555/2023-2024 - Motor, Supply, erection, testing and commissioning of KWA prequalified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to EEFI/ IS 325 including providing suitable concrete foundation including cost of cement sand and metal etc. complete. For 3300 volts motors, digital motor protection relay shall be included in starter as per present IE rules. Flexible coupling shall be used for coupling of pumps and motors. Guarantee for the above pump set 2 years</p>	3.000	no	130547.60	391642.80	Rupees Three Lakh Ninety One Thousand Six Hundred Forty Two And Eighty Zero paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	including maintaining the pump sets during the guarantee period of 2 years					
2.003	OD38557/2023-2024 - STARTER Supply, erection, testing and commissioning of suitable rating soft starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, overload relay with motor protection relay with main contactor and bypass contactor as per IE rules and code of practice etc. complete- Warranty Two years	3.000	no	101410.80	304232.40	Rupees Three Lakh Four Thousand Two Hundred Thirty Two And Forty Zero paise Only
2.004	OD38567/2023-2024 - Panel board Panel board (Suitable for operating three pump sets, two pump at a time using castle key interlock) cubical type floor mounted MS fabricated dust and vermin proof common control panel board) Supply, erection, testing and commissioning of one number suitable capacity MCCB as incomer and three numbers of suitable capacity MCCB as outgoing (Three MCCBs are interlocking with each other, only two will be on at a time) providing suitable size copper bus/ interconnect the above MCCBs and fitted with three numbers of indicator lamps, 1No. volt meter with selector switch, 1 No: Ammeter with selector switch etc. complete and provided with a common earth bus for the entire panel and interconnect with the MCCBs as per IE rules and code of practice. The panel shall be fitted on a common base frame on suitable foundation. Capacitor Bank Design, Supply, Installation, Testing & amp ; Commissioning of Capacitor Bank (APP capacitor Panel having suitable capacity power factor compensation for motors - PF to maintain above 0.98), 440 V, required	1.000	no	443532.40	443532.40	Rupees Four Lakh Forty Three Thousand Five Hundred Thirty Two And Forty Zero paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>KVAr with externally fused capacitor Units, Dry type Al wound Series reactors, HRC fuse protection, Al Bus bars etc complete confirming to IS:2834 1986 - 1 no</p> <p>Cable Supplying laying, testing, jointing, and commissioning copper cables minimum 50 sq.mm for the above pump sets from Panel board to Change over switch and from change over switch to the starter and from starter to motor for working 2 motor at a time Supply and providing ISI brand single compression cable gland termination for the above cables including cable lug of copper of suitable type and size including brick or CC tray through the floors filled with sand and broken stone and MS vertical trays suitable to the pump room as the directions of departmental officers</p> <p>Earthing Earthing & Supply and providing plate ear thing as per IS 3043 by using suitable cast iron/copper plate with 2.5mtrs. Long 40mm dia class GI watering pipe extended up to middle of plate and clamped to the plate by GI clamps made out of 25x6mm GI strip providing funnel with weld wire mesh. Providing 1 no.earth bus made out of 25x6mm copper strip of 45cm long clamped to the water pipe at top and interconnection of earth bus with CI plate by using 2 nos. suitable copper /GI strip of suitable length, filling charcoal and salt at alternate intervals of 15cm all around plate. Providing masonry earth pit chambers of suitable size and CI chamber cover complete as required as per IS - 1 Lot.</p> <p>Statutory, Approval. Approval from Electrical inspectorate including preparation of drawing obtaining approval for the drawings, arranging inspection of the installation</p>					



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	and obtaining safety certificate etc. after completion of the works. Necessary statutory fee if any payable to the electrical inspectorate/KSEB will be paid by KWA (Note: Scheme approval from the Electrical Inspectorate has to be obtained by the firm/contractor before supplying the equipment) Trial running and commissioning as per KWA rules. Conducting satisfactory trial running of the installation as per the direction of the Engineer in charge after attaining statutory approval and completing the entire work to the satisfaction of departmental officer concerned. Warranty Two years					
2.005	OD43041/2023-2024 - Supplying and installing a electro-magnetic flow meter conforming to protection level of IP-68 for flow sensor and IP-67 for transmeter and having an accuracy level of 0.5% with LED/LCD display unit suitable to measure the discharge of transmission main of 400mm dia. The flow meter should have the housing (flow sensor) to be made of ss304/carbon steel with anti corrosive protection and inside liner to be made up of hard rubber/neoprene all confirming to drinking water standards. The flow meter should be coupled with HART for data acquisition and transfer with provision for wireless transfer through GSM. The manufacturers should have the calibration standards as per ISO 17025 and the product shall have 2 years warranty provisions. Product should be tested and calibrated at FCRI, Palakkad and test certificate should be produced. Flow meter should be calibrated with physical measurement at site after installation. Installation	1.000	no	205865.20	205865.20	Rupees Two Lakh Five Thousand Eight Hundred Sixty Five And Twenty Zero paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	should be inside the building for weather protection. A battery back up of min. 24 hrs should be provided.					
3	APPENDIX - III - (A) SUPPLYING AND LAYING CLEAR WATER PUMPING MAIN FROM WTP TO SIVANKUNNU OHSR - COST OF MATERIALS					
3.001	100.98.117 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia.	2000.000	metre	2492.17	4984340.00	Rupees Forty Nine Lakh Eighty Four Thousand Three Hundred Forty Zero Only
3.002	100.98.121 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 400mm Dia.	670.000	metre	6804.05	4558713.50	Rupees Forty Five Lakh Fifty Eight Thousand Seven Hundred Thirteen And Fifty Zero paise Only
3.003	100.98.460 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.	2.000	no	13544.10	27088.20	Rupees Twenty Seven Thousand Zero Eighty Eight And Twenty Zero paise Only
3.004	100.98.435 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Kinetic Air Valve Type DK, Size 50mm.	2.000	no	8039.10	16078.20	Rupees Sixteen Thousand Zero Seventy Eight And Twenty Zero paise Only
3.005	100.98.436 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Kinetic Air Valve Type DK, Size 80mm.	2.000	no	11877.80	23755.60	Rupees Twenty Three Thousand Seven Hundred Fifty Five And Sixty Zero paise Only
4	APPENDIX - III - (B) SUPPLYING AND LAYING CLEAR WATER PUMPING MAIN FROM WTP TO SIVANKUNNU OHSR - WORKING CHARGES					
4.001	15.2.1 - Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	22.500	cum	2148.32	48337.20	Rupees Forty Eight Thousand Three Hundred Thirty Seven And Twenty Zero paise Only
4.002	15.9.2 - Demolishing stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in-Charges:In cement mortar	5.000	cum	2169.12	10845.60	Rupees Ten Thousand Eight Hundred Forty Five And Sixty Zero paise Only
4.003	7.2.1 - Random rubble masonry with hard stone in	5.000	cum	9336.85	46684.25	Rupees Forty



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.Cement mortar 1:6 (1 cement : 6 coarse sand)					Six Thousand Six Hundred Eighty Four And Twenty Five paise Only
4.004	16.83 - Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	50.000	sqm	116.28	5814.00	Rupees Five Thousand Eight Hundred Fourteen Only
4.005	100.1.1 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.	2267.960	cum	583.56	1323490.74	Rupees Thirteen Lakh Twenty Three Thousand Four Hundred Ninety Zero And Seventy Four paise Only
4.006	100.1.5 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm 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, in Ordinary Rock.	566.990	cum	847.43	480484.34	Rupees Four Lakh Eighty Zero Thousand Four Hundred Eighty Four And Thirty Four paise Only
4.007	15.43.2 - Dismantling manually / by mechanical means including stacking of serviceable material and	1000.000	sqm	379.13	379130.00	Rupees Three Lakh Seventy Nine Thousand One Hundred



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-Charge: Bituminous road					Thirty Zero Only
4.008	100.59.1 - 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.	1000.000	metre	31.97	31970.00	Rupees Thirty One Thousand Nine Hundred Seventy Zero Only
4.009	100.8.1 - Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals.	500.000	metre	29.51	14755.00	Rupees Fourteen Thousand Seven Hundred Fifty Five Only
4.010	100.14.3 - Conveying and laying S & amp; S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Ductile Iron Class K-9 Pipes.	2000.000	metre	128.29	256580.00	Rupees Two Lakh Fifty Six Thousand Five Hundred Eighty Zero Only
4.011	100.14.7 - Conveying and laying S & amp; S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 400mm diameter Ductile Iron Class K-9 Pipes.	670.000	metre	343.88	230399.60	Rupees Two Lakh Thirty Zero Thousand Three Hundred Ninety Nine And Sixty Zero paise Only
4.012	18.70.3 - 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	400.000	joint	271.82	108728.00	Rupees One Lakh Eight Thousand Seven Hundred Twenty Eight Only
4.013	18.70.7 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost	150.000	joint	715.74	107361.00	Rupees One Lakh Seven Thousand Three Hundred Sixty One Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	of rubber gasket:400 mm dia pipes					
4.014	OD38727/2023-2024 - Cutting DI Pipe -200 mm diameter C.I. pipe	50.000	no	452.47	22623.50	Rupees Twenty Two Thousand Six Hundred Twenty Three And Fifty Zero paise Only
4.015	OD38731/2023-2024 - Cutting DI Pipe -400 mm diameter C.I. pipe	20.000	no	898.89	17977.80	Rupees Seventeen Thousand Nine Hundred Seventy Seven And Eighty Zero paise Only
4.016	100.35.3 - 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	2000.000	metre	42.03	84060.00	Rupees Eighty Four Thousand Zero Sixty Zero Only
4.017	100.35.7 - Testing 400mm DI/CI pipeline with potable water to the required test pressure. 400 mm dia Observed Data derived from item no.1026 of PHED DATA	670.000	metre	88.16	59067.20	Rupees Fifty Nine Thousand Zero Sixty Seven And Twenty Zero paise Only
4.018	100.31.1.4 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 150mm diameter, Class I.	2.000	no	1261.29	2522.58	Rupees Two Thousand Five Hundred Twenty Two And Fifty Seven paise Only
4.019	100.32.3 - Conveying and fixing C. I. Double Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 50mm Double Acting Air Valve.	2.000	no	230.66	461.32	Rupees Four Hundred Sixty One And Thirty Two paise Only
4.020	100.32.4 - Conveying and fixing C. I. Double Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 80mm Double Acting Air Valve.	2.000	no	230.66	461.32	Rupees Four Hundred Sixty One And Thirty Two paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
4.021	18.17.4 - Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :50 mm nominal bore	2.000	each	1074.72	2149.44	Rupees Two Thousand One Hundred Forty Nine And Forty Four paise Only
4.022	18.17.6 - Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :80 mm nominal bore	2.000	each	2742.38	5484.76	Rupees Five Thousand Four Hundred Eighty Four And Seventy Six paise Only
4.023	18.12.6 - Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work 50 mm dia nominal bore	2.000	metre	698.87	1397.74	Rupees One Thousand Three Hundred Ninety Seven And Seventy Four paise Only
4.024	18.12.8 - Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work 80 mm dia nominal bore	2.000	metre	1071.27	2142.54	Rupees Two Thousand One Hundred Forty Two And Fifty Four paise Only
4.025	18.68.1 - Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 : Upt 600 mm dia	41.570	quintal	21136.72	878653.45	Rupees Eight Lakh Seventy Eight Thousand Six Hundred Fifty Three And Forty Five paise Only
4.026	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil	2.628	cum	224.82	590.83	Rupees Five Hundred Ninety Zero And Eighty Three paise Only
4.027	2.7.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. Ordinary rock	2.628	cum	435.79	1145.26	Rupees One Thousand One Hundred Forty Five And Twenty Six paise Only
4.028	4.1.8 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and	0.421	cum	7158.70	3013.81	Rupees Three Thousand Zero Thirteen And Eighty One



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)					paise Only
4.029	5.1.2 - 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)	34.234	cum	9543.48	326711.49	Rupees Three Lakh Twenty Six Thousand Seven Hundred Eleven And Forty Nine paise Only
4.030	5.9.2 - Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	229.600	sqm	753.38	172976.05	Rupees One Lakh Seventy Two Thousand Nine Hundred Seventy Six And Five paise Only
4.031	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	5.900	sqm	856.90	5055.71	Rupees Five Thousand Zero Fifty Five And Seventy One paise Only
4.032	5.22.6 - 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	167.580	kilogram	103.25	17302.64	Rupees Seventeen Thousand Three Hundred Two And Sixty Four paise Only
4.033	OD38870/2023-2024 - Providing and fixing 200mm dia or nearest size protection tube/AC pipe bit or PVC pipe bit for a length of 1.50m long for protection tube to the below 150mm valve and Air valve in the pipe line /distribution system	4.000	no	1940.77	7763.08	Rupees Seven Thousand Seven Hundred Sixty Three And Eight paise Only
4.034	OD38890/2023-2024 - Construction of Identification block(size 75cm X 25cm X 10cm) with RCC m20 mix including providing reinforcement and over plastering with CM 1:4 ,12mm thick one coat and printing letters with mould and fixing the block in the pipe line including cost of all materials etc complete	10.000	no	1050.57	10505.70	Rupees Ten Thousand Five Hundred Five And Seventy Zero paise Only
4.035	16.84 - Laying old cement	50.000	sqm	400.84	20042.00	Rupees Twenty



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost.)					Thousand Zero Forty Two Only
4.036	16.91.2 - Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	50.000	sqm	1178.37	58918.50	Rupees Fifty Eight Thousand Nine Hundred Eighteen And Fifty Zero paise Only
4.037	100.41.39 - Supply, stacking, spreading and consolidating of Quarry Muck in the trench of pipe line, including carriage, loading, unloading & stacking up to any lead.	45.000	cum	577.44	25984.80	Rupees Twenty Five Thousand Nine Hundred Eighty Four And Eighty Zero paise Only
4.038	4.1.3 - 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 (zone-III) : 4 graded stone aggregate 20 mm nominal size)	22.500	cum	8393.99	188864.78	Rupees One Lakh Eighty Eight Thousand Eight Hundred Sixty Four And Seventy Eight paise Only
4.039	10.2 - Structural steel work riveted, bolted or welded in	2500.000	kg	125.83	314575.00	Rupees Three Lakh Fourteen



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.					Thousand Five Hundred Seventy Five Only
5	APPENDIX - IV - (A) SUPPLYING AND LAYING DISTRIBUTION SYSTEM (PART) - COST OF MATERIALS					
5.001	100.98.117 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia.	200.000	metre	2492.18	498436.00	Rupees Four Lakh Ninety Eight Thousand Four Hundred Thirty Six Only
5.002	100.98.118 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 250mm Dia.	65.000	metre	3481.15	226274.75	Rupees Two Lakh Twenty Six Thousand Two Hundred Seventy Four And Seventy Five paise Only
5.003	100.98.119 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 300mm Dia.	90.000	metre	4351.43	391628.70	Rupees Three Lakh Ninety One Thousand Six Hundred Twenty Eight And Seventy Zero paise Only
5.004	100.98.216 - Supply of PVC Pipe, 6kg/cm ² , 160mm Dia.	600.000	metre	720.64	432384.00	Rupees Four Lakh Thirty Two Thousand Three Hundred Eighty Four Only
5.005	OD42435/2023-2024 - Supplying 150mm GI Medium pipe	30.000	metre	2113.69	63410.70	Rupees Sixty Three Thousand Four Hundred Ten And Seventy Zero paise Only
5.006	OD39012/2023-2024 - Supplying specials for 160mm PVC 6kg/cm ² Pipe (3% of pipe cost)	600.000	metre	21.61	12966.00	Rupees Twelve Thousand Nine Hundred Sixty Six Only
5.007	OD39013/2023-2024 - Supplying specials for 150mm GI Medium pipe (5% of pipe cost)	30.000	metre	105.68	3170.40	Rupees Three Thousand One Hundred Seventy Zero And Forty Zero paise Only
5.008	100.98.460 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.	5.000	no	13544.10	67720.50	Rupees Sixty Seven Thousand Seven Hundred Twenty And Fifty Zero paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
5.009	100.98.441 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 40mm.	5.000	no	6177.86	30889.30	Rupees Thirty Zero Thousand Eight Hundred Eighty Nine And Thirty Zero paise Only
5.010	100.98.444 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Large Orifice Type S2, Size 50mm.	3.000	no	6177.86	18533.58	Rupees Eighteen Thousand Five Hundred Thirty Three And Fifty Seven paise Only
6	APPENDIX - IV - (B) SUPPLYING AND LAYING DISTRIBUTION SYSTEM (PART) - WORKING CHARGES					
6.001	15.2.1 - Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	7.500	cum	2148.32	16112.40	Rupees Sixteen Thousand One Hundred Twelve And Forty Zero paise Only
6.002	100.1.1 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.	581.360	cum	583.56	339258.44	Rupees Three Lakh Thirty Nine Thousand Two Hundred Fifty Eight And Forty Four paise Only
6.003	100.1.5 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm 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, in Ordinary Rock.	255.740	cum	847.43	216721.75	Rupees Two Lakh Sixteen Thousand Seven Hundred Twenty One And Seventy Five paise Only
6.004	15.43.2 - Dismantling manually / by mechanical	100.000	sqm	379.13	37913.00	Rupees Thirty Seven



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-Charge: Bituminous road					Thousand Nine Hundred Thirteen Only
6.005	100.59.1 - 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.	200.000	metre	31.97	6394.00	Rupees Six Thousand Three Hundred Ninety Four Only
6.006	100.8.1 - Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals.	250.000	metre	29.51	7377.50	Rupees Seven Thousand Three Hundred Seventy Seven And Fifty Zero paise Only
6.007	100.14.3 - Conveying and laying S & amp ; S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Ductile Iron Class K-9 Pipes.	200.000	metre	128.29	25658.00	Rupees Twenty Five Thousand Six Hundred Fifty Eight Only
6.008	100.14.4 - Conveying and laying S & amp ; S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 250mm diameter Ductile Iron Class K-9 Pipes.	65.000	metre	171.31	11135.15	Rupees Eleven Thousand One Hundred Thirty Five And Fifteen paise Only
6.009	100.14.5 - Conveying and laying S & amp ; S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 300mm diameter Ductile Iron Class K-9 Pipes.	90.000	metre	215.52	19396.80	Rupees Nineteen Thousand Three Hundred Ninety Six And Eighty Zero paise Only
6.010	18.70.3 - Providing push - on-joints to Centrifugally (Spun)	40.000	joint	271.82	10872.80	Rupees Ten Thousand Eight



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes					Hundred Seventy Two And Eighty Zero paise Only
6.011	18.70.4 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:250 mm dia pipes	15.000	joint	331.95	4979.25	Rupees Four Thousand Nine Hundred Seventy Nine And Twenty Five paise Only
6.012	18.70.5 - 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	20.000	joint	433.40	8668.00	Rupees Eight Thousand Six Hundred Sixty Eight Only
6.013	OD 39127/2023-2024 - Cutting DI Pipe -200 mm diameter C.I. pipe	5.000	no	452.47	2262.35	Rupees Two Thousand Two Hundred Sixty Two And Thirty Five paise Only
6.014	OD 39128/2023-2024 - Cutting DI Pipe - 250 mm diameter C.I. pipe	5.000	no	562.67	2813.35	Rupees Two Thousand Eight Hundred Thirteen And Thirty Five paise Only
6.015	OD 39129/2023-2024 - Cutting DI Pipe - 300 mm diameter C.I. pipe	5.000	no	675.90	3379.50	Rupees Three Thousand Three Hundred Seventy Nine And Fifty Zero paise Only
6.016	100.35.3 - 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	200.000	metre	42.03	8406.00	Rupees Eight Thousand Four Hundred Six Only
6.017	100.35.4 - Testing 250mm DI/CI pipeline with potable water to the required test pressure . 250 mm dia Observed Data derived from item no.1022 of PHED DATA	65.000	metre	53.51	3478.15	Rupees Three Thousand Four Hundred Seventy Eight And Fifteen paise Only
6.018	100.35.5 - Testing 300mm DI/CI pipeline with potable water to the required test pressure. 300 mm dia Observed Data derived from	90.000	metre	58.39	5255.10	Rupees Five Thousand Two Hundred Fifty Five And Ten paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	item no.1023 of PHED DATA					
6.019	100.9.11 - Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 160 mm nominal outside diameter pipes.	600.000	metre	212.97	127782.00	Rupees One Lakh Twenty Seven Thousand Seven Hundred Eighty Two Only
6.020	100.12.11 - Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc., but excluding cost of pipes and fittings for External work: 150mm diameter nominal bore.	30.000	metre	306.06	9181.80	Rupees Nine Thousand One Hundred Eighty One And Eighty Zero paise Only
6.021	100.31.1.4 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 150mm diameter, Class I.	5.000	no	1261.29	6306.45	Rupees Six Thousand Three Hundred Six And Forty Five paise Only
6.022	100.32.2 - Conveying and fixing C. I. Single Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 40mm Single Acting Air Valve.	5.000	no	185.61	928.05	Rupees Nine Hundred Twenty Eight And Five paise Only
6.023	100.32.3 - Conveying and fixing C. I. Double Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 50mm Double Acting Air Valve.	3.000	no	230.66	691.98	Rupees Six Hundred Ninety One And Ninety Eight paise Only
6.024	18.10.5 - Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work-Exposed on wall 40 mm dia nominal bore	5.000	metre	790.87	3954.35	Rupees Three Thousand Nine Hundred Fifty Four And Thirty Five paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
6.025	18.10.6 - Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work-Exposed on wall 50 mm dia nominal bore	3.000	metre	972.82	2918.46	Rupees Two Thousand Nine Hundred Eighteen And Forty Six paise Only
6.026	18.17.3 - Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :40 mm nominal bore	5.000	each	838.81	4194.05	Rupees Four Thousand One Hundred Ninety Four And Five paise Only
6.027	18.17.4 - Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :50 mm nominal bore	3.000	each	1074.72	3224.16	Rupees Three Thousand Two Hundred Twenty Four And Sixteen paise Only
6.028	OD 39146/2023-2024 - Construction of Identification block(size 75cm X 25cm X 10cm) with RCC m20 mix including providing reinforcement and over plastering with CM 1:4, 12mm thick one coat and printing letters with mould and fixing the block in the pipe line including cost of all materials etc complete	10.000	no	1050.57	10505.70	Rupees Ten Thousand Five Hundred Five And Seventy Zero paise Only
6.029	OD 39147/2023-2024 - Providing and fixing 200mm dia or nearest size protection tube/AC pipe bit or PVC pipe bit for a length of 1.50m long for protection tube to the below 150mm valve and Air valve in the pipe line /distribution system	10.000	no	1940.77	19407.70	Rupees Nineteen Thousand Four Hundred Seven And Seventy Zero paise Only
6.030	18.68.1 - Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia	23.490	quintal	21136.72	496501.55	Rupees Four Lakh Ninety Six Thousand Five Hundred One And Fifty Five paise Only
6.031	100.41.39 - Supply, stacking, spreading and consolidating of Quarry Muck in the trench of pipe line, including carriage, loading, unloading & stacking up to any lead.	18.000	cum	577.44	10393.92	Rupees Ten Thousand Three Hundred Ninety Three And Ninety Two paise Only
6.032	100.47.3.1 - Leak rectification work in 90mm uPVC (Class 2 to 6) pipeline including detecting and locating leak, earthwork excavation in all kinds of soil for exposing leak	5.000	no	2366.46	11832.30	Rupees Eleven Thousand Eight Hundred Thirty Two And Thirty Zero paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipeline without causing any damages to the balance portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe, cutting and lowering new pipe into 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 repairable joint and testing the pipeline by operating the valves concerned, and rectifying the defects if noticed and refilling the trenches in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, without causing any damage to the existing utilities, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, ribbon fencing, lighting, watching, traffic control etc., complete as per the direction of Departmental officers, including the cost of pipe & specials but excluding the cost of C.I.R. Joints; uPVC Pipes and specials shall be of good quality and conforming to relevant standards: C.I.R. Jointing.					
6.033	100.47.3.2 - Leak rectification work in 110mm uPVC (Class 2 to 6) pipeline including detecting and locating leak, earthwork 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 pipeline without causing any damages to the balance portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe, cutting and lowering new pipe	4.000	no	2743.04	10972.16	Rupees Ten Thousand Nine Hundred Seventy Two And Sixteen paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	into 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 repairable joint and testing the pipeline by operating the valves concerned, and rectifying the defects if noticed and refilling the trenches in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, without causing any damage to the existing utilities, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, ribbon fencing, lighting, watching, traffic control etc., complete as per the direction of Departmental officers, including the cost of pipe & specials but excluding the cost of C.I.R. Joints; uPVC Pipes and specials shall be of good quality and conforming to relevant standards: C.I.R. Jointing.					
6.034	100.47.3.3.a - Leak rectification work in 140 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earthwork 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 pipeline without causing any damages to the balance portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe, cutting and lowering new pipe into 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 repairable joint and testing the pipeline by operating the valves concerned, and rectifying the defects if noticed and refilling the	4.000	no	3245.61	12982.44	Rupees Twelve Thousand Nine Hundred Eighty Two And Forty Four paise Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	trenches in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, without causing any damage to the existing utilities, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, ribbon fencing, lighting, watching, traffic control etc., complete as per the direction of Departmental officers, including the cost of pipe & specials but excluding the cost of C.I.R. Joints; uPVC Pipes and specials shall be of good quality and conforming to relevant standards: C.I.R. Jointing.					
6.035	4.1.3 - 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 (zone-III) : 4 graded stone aggregate 20 mm nominal size)	17.640	cum	8393.99	148069.98	Rupees One Lakh Forty Eight Thousand Zero Sixty Nine And Ninety Eight paise Only
6.036	5.9.2 - Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	57.600	sqm	753.38	43394.69	Rupees Forty Three Thousand Three Hundred Ninety Four And Sixty Nine paise Only
7	APPENDIX - V - PROVIDING FHTCS					
7.001	100.60.1.1.2 - Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5 m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of	1400.000	no	6056.00	8478400.00	Rupees Eighty Four Lakh Seventy Eight Thousand Four Hundred Zero Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					
7.002	100.60.3.1.1 - Providing additional length of house connection pipe using 20mm Indian Standard Class 6 uPVC pipe and specials and testing the joints etc., by trenching and refilling in all kinds of soil with trench of average cross section 0.3m x 0.75m for laying of connection pipe and service pipe, lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per the directions of the department officers	2400.000	metre	181.00	434400.00	Rupees Four Lakh Thirty Four Thousand Four Hundred Zero Only
7.003	100.60.10.1.1 - Providing 15mm (1/2 inch) GM Air Valve in the water meter assembly for 15mm connection, using 20mm Indian Standard Class 6 uPVC pipes and specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers.	500.000	no	820.00	410000.00	Rupees Four Lakh Ten Thousand Zero Zero Only
7.004	100.60.12.3.1 - Providing 15mm PVC Tap in the water meter assembly for 15mm connection, using 20mm Indian Standard Class 6	1400.000	no	597.00	835800.00	Rupees Eight Lakh Thirty Five Thousand Eight Hundred Zero Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	uPVC pipes and specials including cost of materials, consumables, hire charges for tools and labour charges etc. complete and as per the direction of departmental officers.					
7.005	18.12.4 - Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work 32 mm dia nominal bore	1200.000	metre	521.00	625200.00	Rupees Six Lakh Twenty Five Thousand Two Hundred Zero Only
7.006	OD 39162/2023-2024 - Providing stand post for FHTCs	1400.000	no	426.00	596400.00	Rupees Five Lakh Ninety Six Thousand Four Hundred Zero Only
7.007	100.60.1.4.1 - Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing AC / GI mains up to 125 mm dia., up to a length of 5 m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, GI / MS / SS Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges but excluding cost of water meter and meter box and excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers.	478.000	no	4768.00	2279104.00	Rupees Twenty Two Lakh Seventy Nine Thousand One Hundred Four Only
8	APPENDIX - VI - PWD ROAD RESTORATION (MORTH_ ROAD)					
8.001	3.6 - Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming	360.000	cum	50.00	18000.00	Rupees Eighteen Thousand Zero Zero Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m					
8.002	4.2.A.1 - Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method	180.000	cum	3246.00	584280.00	Rupees Five Lakh Eighty Four Thousand Two Hundred Eighty Zero Only
8.003	4.12 - 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.	180.000	cum	3341.00	601380.00	Rupees Six Lakh One Thousand Three Hundred Eighty Zero Only
8.004	5.1.a - 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.	1800.000	sqm	63.00	113400.00	Rupees One Lakh Thirteen Thousand Four Hundred Zero Only
8.005	5.2.b - Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom.	1800.000	sqm	14.00	25200.00	Rupees Twenty Five Thousand Two Hundred Zero Only
8.006	5.3.2.a - 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	90.000	cum	8602.00	774180.00	Rupees Seven Lakh Seventy Four Thousand One Hundred Eighty Zero Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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)					
8.007	5.2.a - Providing and applying tack coat with bitumen emulsion(RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.	1800.000	sqm	11.00	19800.00	Rupees Nineteen Thousand Eight Hundred Zero Only
8.008	5.6.2.a - 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)	54.000	cum	13172.00	711288.00	Rupees Seven Lakh Eleven Thousand Two Hundred Eighty Eight Only
8.009	12.8.A.1 - Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. PCC Grade M15	5.400	cum	7666.00	41396.40	Rupees Forty One Thousand Three Hundred Ninety Six And Forty Zero paise Only
9	APPENDIX - VII - LSGD ROAD RESTORATION (MORD_ ROAD)					
9.001	3.6 - Excavation in Marshy Soil & Excavation for roadway in marshy soil with hydraulic excavator 0.9 cum bucket capacity including cutting and loading in tippers and disposal with a lift upto 1.5 m and lead upto 1000 m, trimming of bottom and side slopes in accordance with requirements of lines,	72.000	cum	54.00	3888.00	Rupees Three Thousand Eight Hundred Eighty Eight Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	grades and cross- sections as per Technical Specification Clause 302.3.6.					
9.002	4.1.A.1 - Granular Sub-base with Well Graded Material (Table 400.1) & (A) By Mix in Place Method & Construction of granular sub-base by providing well 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 smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. & (i) For Grading I Material	36.000	cum	3026.00	108936.00	Rupees One Lakh Eight Thousand Nine Hundred Thirty Six Only
9.003	4.9 - Wet Mix Macadam & Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. & By Mechanical Means with 1 km lead	36.000	cum	3378.00	121608.00	Rupees One Lakh Twenty One Thousand Six Hundred Eight Only
9.004	5.1.1a - Prime Coat :- Low porosity & Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	300.000	sqm	75.00	22500.00	Rupees Twenty Two Thousand Five Hundred Zero Only
9.005	5.2.3 a - Tack Coat & Providing and applying tack coat with Bitumen emulsion (RS-1)	300.000	sqm	15.00	4500.00	Rupees Four Thousand Five Hundred Zero Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.					
9.006	5.9.1.2a - 20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 & Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508. & Case - I By Manual Means & (II) Bitumen (S-65)	300.000	sqm	200.00	60000.00	Rupees Sixty Zero Thousand Zero Zero Only
9.007	5.12.A.3.2a - Seal Coat - Manual Means - Type C - Bitumen S-65 & Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510 & A. By Manual Means :- Case - III : Type C & (II) Bitumen (S-65)	300.000	sqm	84.00	25200.00	Rupees Twenty Five Thousand Two Hundred Zero Only

The above work awarded to the contractor FAKRUDHEEN ALI AHAMMED,AALPU9996Q, at his quoted rate for individual items at a total accepted PAC 57258082(Five Crore Seventy Two Lakh Fifty Eight Thousand Eighty Two Only) as per the condition of the contract.

