

## LETTER OF ACCEPTANCE

To,  
Sri/Smt M/s.Sibi. K.Jose  
PAN : AEFPJ9150F

Your e-Tender No WRD/KWA-CE(CR)/TR/6970/2022\_26\_5\_4/1 dated 10-04-2023 for the Jal Jeevan Mission (JJM)-WSS - to Santhanpara, Rajakumary (Part) and Senapathy (Part) Panchayaths in Idukki District-Package IV A- Supplying and Laying Distribution and providing FHTC in Santhanpara GP-Pipeline Work has been accepted for a quoted amount of Rs. 348628942/- (Rupees Thirty Four Crore Eighty Six Lakh Twenty Eight Thousand Nine Hundred and Forty Two only) based on rates quoted for individual items individual items individual items 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(Project Division Kattapana). 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. 100000/- ( One Lakh Only) shall be submitted to the Agreement Authority. (subject to govt orders)

2. Before executing the agreement, you should deposit a Performance Guarantee of 5% of contract value, ie. Rs. 17431447/- (Rupees One Crore Seventy Four Lakh Thirty One Thousand Four Hundred and Forty Seven 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. **500000 /-** (**Rupees Five Lakh 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 5 years experience), Site Engineers- 3 nos (2 nos for supervision and 1 no for Quality Control) - (Civil Engineering graduate with minimum 3 years experience), Supervisor- 4 nos (Civil Engineering Diploma holder with minimum 2 year experience) and Supervisor (Mechanical) (if required) - 1 no (Mechanical Engineering Diploma holder with minimum 2 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 **6 months 1 year** from the date of handing over the site.

11. Defect Liability period will be **2 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.

**Pradeep V.K.(G14136)**  
**Superintending Engineer**

## ACCEPTED SCHEDULE

Name of Work: Jal Jeevan Mission (JJM)-WSS - to Santhanpara, Rajakumary (Part) and Senapathy (Part) Panchayaths in Idukki District-Package IV A- Supplying and Laying Distribution and providing FHTC in Santhanpara GP-Pipeline Work (DSR 2018 with Cost Index 141.53 )

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
<b>1</b>	<b>Supplying , Laying and commissioning of Distribution- Cost of materials</b>					
1.001	100.98.119 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 300mm Dia.	1594.000	metre	4836.00	7708584.00	Rupees Seventy Seven Lakh Eight Thousand Five Hundred Eighty Four Only
1.002	100.98.118 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 250mm Dia.	6697.000	metre	3869.00	25910693.00	Rupees Two Crore Fifty Nine Lakh Ten Thousand Six Hundred Ninety Three Only
1.003	100.98.117 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia.	2468.000	metre	2770.00	6836360.00	Rupees Sixty Eight Lakh Thirty Six Thousand Three Hundred Sixty Zero Only
1.004	100.98.116 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia.	6097.000	metre	2022.00	12328134.00	Rupees One Crore Twenty Three Lakh Twenty Eight Thousand One Hundred Thirty Four Only
1.005	100.98.115 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 100mm Dia.	995.000	metre	1344.00	1337280.00	Rupees Thirteen Lakh Thirty Seven Thousand Two Hundred Eighty Zero Only
1.006	100.98.134 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 8kg, 90mm Outer Dia.	41661.000	metre	226.00	9415386.00	Rupees Ninety Four Lakh Fifteen Thousand Three Hundred Eighty Six Only
1.007	OD102884/2022-2023 - 90mm HDPE Specials (8kg)	41661.000	metre	6.81	283711.41	Rupees Two Lakh Eighty Three Thousand Seven Hundred Eleven And Forty One paise

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
						Only
1.008	100.98.154 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 10kg, 90mm Outer Dia.	30524.000	metre	282.00	8607768.00	Rupees Eighty Six Lakh Seven Thousand Seven Hundred Sixty Eight Only
1.009	OD102885/2022-2023 - Specials for 90 mm HDPE pipe(10kg)	30524.000	metre	8.50	259454.00	Rupees Two Lakh Fifty Nine Thousand Four Hundred Fifty Four Only
1.010	100.98.194 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 16kg, 90mm Outer Dia.	81459.000	metre	402.00	32746518.00	Rupees Three Crore Twenty Seven Lakh Forty Six Thousand Five Hundred Eighteen Only
1.011	OD102886/2022-2023 - Specials for 90mm HDPE Pipe (16kg)	81459.000	metre	12.08	984024.72	Rupees Nine Lakh Eighty Four Thousand Zero Twenty Four And Seventy Two paise Only
1.012	100.98.436 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Kinetic Air Valve Type DK, Size 80mm.	10.000	no	12570.00	125700.00	Rupees One Lakh Twenty Five Thousand Seven Hundred Zero Only
1.013	100.98.444 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Large Orifice Type S2, Size 50mm.	10.000	no	6537.00	65370.00	Rupees Sixty Five Thousand Three Hundred Seventy Zero Only
1.014	100.98.445 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Double Orifice Type DS2, Size 40mm.	20.000	no	7436.00	148720.00	Rupees One Lakh Forty Eight Thousand Seven Hundred Twenty Only
1.015	100.98.440 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm.	298.000	no	6030.00	1796940.00	Rupees Seventeen Lakh Ninety Six Thousand Nine Hundred Forty Zero Only
1.016	100.98.463 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 300mm.	4.000	no	46343.00	185372.00	Rupees One Lakh Eighty Five Thousand Three Hundred Seventy Two Only
1.017	100.98.474 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap	1.000	no	34373.00	34373.00	Rupees Thirty Four Thousand Three Hundred Seventy Three

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	PN 1.0, Size 250mm.					Only
1.018	100.98.473 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.0, Size 200mm.	4.000	no	23526.00	94104.00	Rupees Ninety Four Thousand One Hundred Four Only
1.019	100.98.472 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.0, Size 150mm.	3.000	no	13293.00	39879.00	Rupees Thirty Nine Thousand Eight Hundred Seventy Nine Only
1.020	100.98.458 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 100mm.	1.000	no	9633.00	9633.00	Rupees Nine Thousand Six Hundred Thirty Three Only
1.021	100.98.469 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.0, Size 80mm.	123.000	no	6565.00	807495.00	Rupees Eight Lakh Seven Thousand Four Hundred Ninety Five Only
<b>2</b>	<b>Supplying , Laying and commissioning of Distribution- Working charges</b>					
2.001	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.	68631.600	cum	619.00	42482960.40	Rupees Four Crore Twenty Four Lakh Eighty Two Thousand Nine Hundred Sixty Zero And Forty Zero paise Only
2.002	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.	13839.720	cum	900.00	12455748.00	Rupees One Crore Twenty Four Lakh Fifty Five Thousand Seven Hundred Forty Eight Only
2.003	100.2.3 - Excavating trenches of required width for pipes,	4613.240	cum	1116.00	5148375.84	Rupees Fifty One Lakh Forty

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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 Medium Rock Requiring Blasting.					Eight Thousand Three Hundred Seventy Five And Eighty Four paise Only
2.004	100.4.1 - Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m3 of blasting)	4613.240	cum	4380.00	20205991.20	Rupees Two Crore Two Lakh Five Thousand Nine Hundred Ninety One And Twenty Zero paise Only
2.005	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.	150000.000	metre	30.80	4620000.00	Rupees Forty Six Lakh Twenty Thousand Zero Zero Only
2.006	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.	1584.000	metre	228.00	361152.00	Rupees Three Lakh Sixty One Thousand One Hundred Fifty Two Only
2.007	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	300.000	joint	460.00	138000.00	Rupees One Lakh Thirty Eight Thousand Zero Zero Only
2.008	18.30.7 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:300 mm diameter pipe	2.000	no	645.00	1290.00	Rupees One Thousand Two Hundred Ninety Zero Only
2.009	OD130856/2022-2023 - Labour for cutting DI Pipe	12.000	Each Cut	717.00	8604.00	Rupees Eight Thousand Six

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	with steel saw 300 mm diameter DI Pipe					Hundred Four Only
2.010	100.35.5 - 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	1584.000	metre	61.80	97891.20	Rupees Ninety Seven Thousand Eight Hundred Ninety One And Twenty Zero paise Only
2.011	100.14.4 - Conveying and laying S&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.	6600.000	metre	182.00	1201200.00	Rupees Twelve Lakh One Thousand Two Hundred Zero Only
2.012	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	1220.000	joint	352.00	429440.00	Rupees Four Lakh Twenty Nine Thousand Four Hundred Forty Zero Only
2.013	18.30.6 - Providing flanged joints to double flanged C.I./D.I pipes and specials, including testing of joints:250 mm diameter pipe	4.000	no	636.00	2544.00	Rupees Two Thousand Five Hundred Forty Four Only
2.014	OD130864/2022-2023 - Labour for Cutting D I pipe with steel saw.250 mm diameter DI Pipe	28.000	Each Cut	594.00	16632.00	Rupees Sixteen Thousand Six Hundred Thirty Two Only
2.015	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	6600.000	metre	56.70	374220.00	Rupees Three Lakh Seventy Four Thousand Two Hundred Twenty Only
2.016	100.14.3 - Conveying and laying S&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.	2435.000	metre	136.41	332158.35	Rupees Three Lakh Thirty Two Thousand One Hundred Fifty Eight And Thirty Five paise Only
2.017	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	455.000	joint	288.90	131449.50	Rupees One Lakh Thirty One Thousand Four Hundred Forty Nine And Fifty Zero paise Only
2.018	18.30.5 - Providing flanged joints to double flanged C.I./	2.000	no	466.00	932.00	Rupees Nine Hundred Thirty

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	D.I pipes and specials, including testing of joints:200 mm diameter pipe					Two Only
2.019	OD130870/2022-2023 - Labour for cutting D.I. pipe with steel saw.200 mm diameter D.I. pipe	16.000	Each Cut	480.00	7680.00	Rupees Seven Thousand Six Hundred Eighty Zero Only
2.020	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	2435.000	metre	44.57	108527.95	Rupees One Lakh Eight Thousand Five Hundred Twenty Seven And Ninety Five paise Only
2.021	100.14.2 - Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 150mm diameter Ductile Iron Class K-9 Pipes.	6012.000	metre	97.37	585388.44	Rupees Five Lakh Eighty Five Thousand Three Hundred Eighty Eight And Forty Four paise Only
2.022	18.70.2 - 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	1108.000	joint	196.00	217168.00	Rupees Two Lakh Seventeen Thousand One Hundred Sixty Eight Only
2.023	18.30.4 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:150 mm diameter pipe	4.000	no	430.00	1720.00	Rupees One Thousand Seven Hundred Twenty Only
2.024	OD130936/2022-2023 - Labour for Cutting DI Pipe with steel saw 150 mm diameter DI Pipe	24.000	Each Cut	360.50	8652.00	Rupees Eight Thousand Six Hundred Fifty Two Only
2.025	100.35.2 - 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	6012.000	metre	35.10	211021.20	Rupees Two Lakh Eleven Thousand Zero Twenty One And Twenty Zero paise Only
2.026	100.14.1 - Conveying and laying S & S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 100mm diameter Ductile Iron Class K-9 Pipes.	985.000	metre	65.60	64616.00	Rupees Sixty Four Thousand Six Hundred Sixteen Only
2.027	18.70.1 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile	185.000	joint	120.00	22200.00	Rupees Twenty Two Thousand Two Hundred



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Iron Pipes including testing of joints and including the cost of rubber gasket:100 mm dia pipes					Zero Only
2.028	18.30.2 - Providing flanged joints to double flanged C.I./D.I pipes and specials, including testing of joints:100 mm diameter pipe	2.000	no	347.00	694.00	Rupees Six Hundred Ninety Four Only
2.029	OD135945/2022-2023 - Labour for Cutting DI Pipe with steel saw 100 mm diameter DI Pipe	10.000	Each Cut	191.00	1910.00	Rupees One Thousand Nine Hundred Ten Only
2.030	100.35.1 - Testing 100mm DI/CI pipeline with potable water to the required test pressure 100 mm dia	985.000	metre	26.00	25610.00	Rupees Twenty Five Thousand Six Hundred Ten Only
2.031	100.10.1 - Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electrofusion welding using automatic or semi-automatic electrofusion machines, testing the pipeline 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 levelling the trenches including all labour charge, hire for appliances etc., complete but excluding cost of pipe and fittings: 90mm Nominal Outer Diameter pipes.	153644.000	metre	104.00	15978976.00	Rupees One Crore Fifty Nine Lakh Seventy Eight Thousand Nine Hundred Seventy Six Only
2.032	18.67.1 - Providing and laying S & S C.I. Standard specials suitable for mechanical jointing as per IS 13382:Upto 300 mm dia	13.350	quintal	15737.00	210088.95	Rupees Two Lakh Ten Thousand Zero Eighty Eight And Ninety Five paise Only
2.033	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	140.940	quintal	22473.00	3167344.62	Rupees Thirty One Lakh Sixty Seven Thousand Three Hundred Forty Four And Sixty Two paise Only
2.034	100.32.4 - Conveying and fixing C. I. Double Acting Air Valve of approved quality	10.000	no	245.00	2450.00	Rupees Two Thousand Four Hundred Fifty

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					Zero Only
2.035	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.	10.000	no	245.00	2450.00	Rupees Two Thousand Four Hundred Fifty Zero Only
2.036	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.	20.000	no	196.00	3920.00	Rupees Three Thousand Nine Hundred Twenty Only
2.037	100.32.1 - 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): 25mm Single Acting Air Valve.	298.000	no	156.00	46488.00	Rupees Forty Six Thousand Four Hundred Eighty Eight Only
2.038	100.31.1.7 - 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): 300mm diameter, Class I.	4.000	no	2897.00	11588.00	Rupees Eleven Thousand Five Hundred Eighty Eight Only
2.039	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	2465.00	2465.00	Rupees Two Thousand Four Hundred Sixty Five Only
2.040	100.31.1.5 - 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): 200mm diameter,	4.000	no	1738.00	6952.00	Rupees Six Thousand Nine Hundred Fifty Two Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Class I.					
2.041	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.	3.000	no	1340.00	4020.00	Rupees Four Thousand Zero Twenty Only
2.042	100.31.1.2 - 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): 100mm diameter, Class I.	1.000	no	989.00	989.00	Rupees Nine Hundred Eighty Nine Only
2.043	100.31.1.1 - 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): 80mm diameter, Class I.	123.000	no	655.00	80565.00	Rupees Eighty Zero Thousand Five Hundred Sixty Five Only
2.044	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	21200.000	metre	1138.00	24125600.00	Rupees Two Crore Forty One Lakh Twenty Five Thousand Six Hundred Zero Only
2.045	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	268.800	cum	238.60	64135.68	Rupees Sixty Four Thousand One Hundred Thirty Five And Sixty Eight paise Only
2.046	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)	17.920	cum	8923.00	159900.16	Rupees One Lakh Fifty Nine Thousand Nine Hundred Zero And Sixteen paise Only
2.047	5.1.3 - Providing and laying in position specified grade of	56.875	cum	9591.00	545488.13	Rupees Five Lakh Forty Five

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)					Thousand Four Hundred Eighty Eight And Thirteen paise Only
2.048	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)	150.500	cum	10146.00	1526973.00	Rupees Fifteen Lakh Twenty Six Thousand Nine Hundred Seventy Three Only
2.049	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.	1115.000	sqm	800.00	892000.00	Rupees Eight Lakh Ninety Two Thousand Zero Zero Only
2.050	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	210.000	sqm	910.00	191100.00	Rupees One Lakh Ninety One Thousand One Hundred Zero Only
2.051	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	14611.100	kilogram	109.50	1599915.45	Rupees Fifteen Lakh Ninety Nine Thousand Nine Hundred Fifteen And Forty Five paise Only
2.052	100.37.5.1 - In situ fabrication of M.S. pipes of size 100mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. 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.	10.000	metre	4474.00	44740.00	Rupees Forty Four Thousand Seven Hundred Forty Zero Only
2.053	100.37.5.2 - Fabricating M.S. flanges of diameter 100mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges,	4.000	no	1242.00	4968.00	Rupees Four Thousand Nine Hundred Sixty Eight Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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 M.S. plates.					
2.054	100.37.5.3 - Cutting 100mm (I.D.) M.S. 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 M.S. plates.	6.000	no	127.00	762.00	Rupees Seven Hundred Sixty Two Only
2.055	100.37.5.4 - Welding 100mm (I.D.) M.S. 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 M.S. plates.	6.000	no	483.00	2898.00	Rupees Two Thousand Eight Hundred Ninety Eight Only
2.056	100.37.5.5 - Grinding cut and weld edges of 100mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	12.000	no	91.00	1092.00	Rupees One Thousand Zero Ninety Two Only
2.057	100.37.6.1 - In situ fabrication of M.S. pipes of size 150mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. 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.	35.000	metre	5536.00	193760.00	Rupees One Lakh Ninety Three Thousand Seven Hundred Sixty Zero Only
2.058	100.37.6.2 - Fabricating M.S. flanges of diameter 150mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. 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 M.S. plates.	8.000	no	1652.00	13216.00	Rupees Thirteen Thousand Two Hundred Sixteen Only
2.059	100.37.6.3 - Cutting 150mm (I.D.) M.S. pipes for making bends and other specials by	16.000	no	182.00	2912.00	Rupees Two Thousand Nine Hundred

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	gas cutting including cost of gas, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.					Twelve Only
2.060	100.37.6.4 - Welding 150mm (I.D.) M.S. 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 M.S. plates.	16.000	no	693.00	11088.00	Rupees Eleven Thousand Zero Eighty Eight Only
2.061	100.37.6.5 - Grinding cut and weld edges of 150mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	32.000	no	129.00	4128.00	Rupees Four Thousand One Hundred Twenty Eight Only
2.062	100.37.7.1 - In situ fabrication of M.S. pipes of size 200mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. 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.	15.000	metre	6596.00	98940.00	Rupees Ninety Eight Thousand Nine Hundred Forty Zero Only
2.063	100.37.7.2 - Fabricating M.S. flanges of diameter 200mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. 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 M.S. plates.	4.000	no	2226.00	8904.00	Rupees Eight Thousand Nine Hundred Four Only
2.064	100.37.7.3 - Cutting 200mm (I.D.) M.S. 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 M.S. plates.	8.000	no	238.00	1904.00	Rupees One Thousand Nine Hundred Four Only
2.065	100.37.7.4 - Welding 200mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and	8.000	no	902.00	7216.00	Rupees Seven Thousand Two Hundred Sixteen Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.					
2.066	100.37.7.5 - Grinding cut and weld edges of 200mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	16.000	no	169.00	2704.00	Rupees Two Thousand Seven Hundred Four Only
2.067	100.37.8.1 - In situ fabrication of M.S. pipes of size 250mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. 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.	35.000	metre	7664.00	268240.00	Rupees Two Lakh Sixty Eight Thousand Two Hundred Forty Zero Only
2.068	100.37.8.2 - Fabricating M.S. flanges of diameter 250mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. 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 M.S. plates.	8.000	no	2733.00	21864.00	Rupees Twenty One Thousand Eight Hundred Sixty Four Only
2.069	100.37.8.3 - Cutting 250mm (I.D.) M.S. 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 M.S. plates.	8.000	no	293.00	2344.00	Rupees Two Thousand Three Hundred Forty Four Only
2.070	100.37.8.4 - Welding 250mm (I.D.) M.S. 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 M.S. plates.	8.000	no	1110.00	8880.00	Rupees Eight Thousand Eight Hundred Eighty Zero Only
2.071	100.37.8.5 - Grinding cut and weld edges of 250mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated	16.000	no	208.00	3328.00	Rupees Three Thousand Three Hundred Twenty Eight Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	with 8mm thick M.S. plates.					
2.072	100.37.9.1 - In situ fabrication of M.S. pipes of size 300mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. 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.	20.000	metre	8724.00	174480.00	Rupees One Lakh Seventy Four Thousand Four Hundred Eighty Zero Only
2.073	100.37.9.2 - Fabricating M.S. flanges of diameter 300mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. 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 M.S. plates.	4.000	no	3222.00	12888.00	Rupees Twelve Thousand Eight Hundred Eighty Eight Only
2.074	100.37.9.3 - Cutting 300mm (I.D.) M.S. 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 M.S. plates.	8.000	no	348.00	2784.00	Rupees Two Thousand Seven Hundred Eighty Four Only
2.075	100.37.9.4 - Welding 300mm (I.D.) M.S. 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 M.S. plates.	8.000	no	1319.00	10552.00	Rupees Ten Thousand Five Hundred Fifty Two Only
2.076	100.37.9.5 - Grinding cut and weld edges of 300mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	16.000	no	247.00	3952.00	Rupees Three Thousand Nine Hundred Fifty Two Only
2.077	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	6800.000	metre	34.00	231200.00	Rupees Two Lakh Thirty One Thousand Two Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					
2.078	15.59 - Dismantling of flexible pavement ( bituminous courses ) by mechanical means and disposal of dismantled material up to a lead of 1 kilo metre, as per direction of Engineer-in-charge.	960.000	cum	421.00	404160.00	Rupees Four Lakh Four Thousand One Hundred Sixty Zero Only
2.079	15.2.2 - Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:4:8 leaner mix ( including equivalent design mix)	180.000	cum	1410.00	253800.00	Rupees Two Lakh Fifty Three Thousand Eight Hundred Zero Only
2.080	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.	900.000	sqm	123.00	110700.00	Rupees One Lakh Ten Thousand Seven Hundred Zero Only
2.081	16.84 - Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost.)	720.000	sqm	425.86	306619.20	Rupees Three Lakh Six Thousand Six Hundred Nineteen And Twenty Zero paise Only
2.082	16.68 - Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making	180.000	sqm	1128.00	203040.00	Rupees Two Lakh Three Thousand Zero Forty Zero Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					
<b>3</b>	<b>Providing FHTCs</b>					
3.001	100.60.13.4.2 - 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.	435.000	no	7757.00	3374295.00	Rupees Thirty Three Lakh Seventy Four Thousand Two Hundred Ninety Five Only
3.002	100.60.13.6.2 - Providing 20mm (3/4 inch) house connection with 15mm water meter from existing AC / GI mains up to 125 mm dia., up to a length of 5 m using 25mm ( 3/4 inch ) PE Pipe,	515.000	no	8702.00	4481530.00	Rupees Forty Four Lakh Eighty One Thousand Five Hundred Thirty Zero Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					
3.003	100.60.13.1.2 - 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, PE 80, PN 16, 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	1150.000	no	7636.00	8781400.00	Rupees Eighty Seven Lakh Eighty One Thousand Four Hundred Zero Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					
3.004	100.60.13.3.2 - Providing 20mm (3/4 inch) house connection with 15mm water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5m using 25mm (3/4 inch) PE Pipe, PE 80, PN 16, 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 and weather with ISI mark 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.	1204.000	no	8582.00	10332728.00	Rupees One Crore Three Lakh Thirty Two Thousand Seven Hundred Twenty Eight Only
3.005	100.60.13.7.2 - Providing	150.000	no	8903.00	1335450.00	Rupees Thirteen

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	15mm (1/2 inch) house connection with 15mm water meter from existing CI mains up to 125 mm 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 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					Lakh Thirty Five Thousand Four Hundred Fifty Zero Only
3.006	100.60.13.9.2 - Providing 20mm (3/4 inch) house connection with 15mm water meter from existing CI mains up to 125 mm dia., up to a length of 5 m using 25mm (3/4 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 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	165.000	no	9848.00	1624920.00	Rupees Sixteen Lakh Twenty Four Thousand Nine Hundred Twenty Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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					
3.007	100.60.14.7.2 - Providing 15mm (1/2 inch) house connection with 15mm water meter from existing CI mains from 150mm 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 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.	72.000	no	9227.00	664344.00	Rupees Six Lakh Sixty Four Thousand Three Hundred Forty Four Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
3.008	100.60.14.9.2 - Providing 20mm (3/4 inch) house connection with 15mm water meter from existing CI mains from 150mm to 200mm dia., up to a length of 5 m using 25mm ( 3/4 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 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.	108.000	no	10172.00	1098576.00	Rupees Ten Lakh Ninety Eight Thousand Five Hundred Seventy Six Only
3.009	100.60.21.1.1 - Providing 15mm ( 1/2 inch ) GM Air Valve in the water meter assembly for 15mm water connection, using 20mm ( 1/2 inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers.	1807.000	no	1065.00	1924455.00	Rupees Nineteen Lakh Twenty Four Thousand Four Hundred Fifty Five Only
3.010	100.60.21.2.1 - Providing 20mm ( 3/4 inch ) GM Air Valve in the water meter assembly for 20mm water connection, using 25mm ( 3/4	1992.000	no	1339.00	2667288.00	Rupees Twenty Six Lakh Sixty Seven Thousand Two Hundred Eighty

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers.					Eight Only
3.011	100.60.23.3.1 - 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.	1807.000	no	730.00	1319110.00	Rupees Thirteen Lakh Nineteen Thousand One Hundred Ten Only
3.012	100.60.23.4.1 - Providing 15mm PVC Tap in the water meter assembly for 20mm ( 3/4 inch ) water connection, using 25mm ( 3/4 inch ) Indian Standard Class 6 uPVC 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.	1992.000	no	839.00	1671288.00	Rupees Sixteen Lakh Seventy One Thousand Two Hundred Eighty Eight Only
3.013	100.60.15.1.2 - Providing additional length of house connection pipe using 20mm (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., hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads, and excluding cost of materials	43368.000	metre	165.00	7155720.00	Rupees Seventy One Lakh Fifty Five Thousand Seven Hundred Twenty Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	etc., and as per the directions of the department officers.					
3.014	100.60.15.2.1 - Providing additional length of house connection pipe using 25 mm (3/4 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PN 16 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.	95616.000	metre	208.00	19888128.00	Rupees One Crore Ninety Eight Lakh Eighty Eight Thousand One Hundred Twenty Eight Only
3.015	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)	141.750	cum	2283.00	323615.25	Rupees Three Lakh Twenty Three Thousand Six Hundred Fifteen And Twenty Five paise Only
3.016	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.	3000.000	metre	34.00	102000.00	Rupees One Lakh Two Thousand Zero Zero Only
3.017	15.59 - Dismantling of flexible pavement ( bituminous courses ) by mechanical means and disposal of dismantled	360.000	cum	421.00	151560.00	Rupees One Lakh Fifty One Thousand Five Hundred Sixty Zero Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	material up to a lead of 1 kilo metre, as per direction of Engineer-in-charge.					
<b>4</b>	<b>Road restoration charges PWD/SH/NH</b>					
4.001	3.6 - Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming 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	5362.000	cum	52.20	279896.40	Rupees Two Lakh Seventy Nine Thousand Eight Hundred Ninety Six And Forty Zero paise Only
4.002	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	4346.000	cum	3512.00	15263152.00	Rupees One Crore Fifty Two Lakh Sixty Three Thousand One Hundred Fifty Two Only
4.003	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.	816.000	cum	3611.00	2946576.00	Rupees Twenty Nine Lakh Forty Six Thousand Five Hundred Seventy Six Only
4.004	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.	7800.000	sqm	78.60	613080.00	Rupees Six Lakh Thirteen Thousand Zero Eighty Zero Only
4.005	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	7800.000	sqm	15.50	120900.00	Rupees One Lakh Twenty Thousand Nine Hundred Zero Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Granular Surface cleaned with mechanical broom.					
4.006	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 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)	150.000	cum	9371.00	1405650.00	Rupees Fourteen Lakh Five Thousand Six Hundred Fifty Zero Only
4.007	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.	3000.000	sqm	12.78	38340.00	Rupees Thirty Eight Thousand Three Hundred Forty Zero Only
4.008	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)	90.000	cum	14324.00	1289160.00	Rupees Twelve Lakh Eighty Nine Thousand One Hundred Sixty Zero Only
4.009	5.7.1 - 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	4800.000	sqm	225.00	1080000.00	Rupees Ten Lakh Eighty Zero Thousand Zero Zero Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					
4.010	5.8.a - Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder (VG 30) laid on the prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. Grading I - 19 mm nominal chipping size	4800.000	sqm	120.00	576000.00	Rupees Five Lakh Seventy Six Thousand Zero Zero Only
4.011	12.4 - Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.	100.000	cum	7188.00	718800.00	Rupees Seven Lakh Eighteen Thousand Eight Hundred Zero Only
4.012	12.8.B.1 - Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications &lt;br&gt; PCC Grade M20&lt;br&gt;	50.000	cum	8963.00	448150.00	Rupees Four Lakh Forty Eight Thousand One Hundred Fifty Zero Only
<b>5</b>	<b>Road restoration charges LSGD</b>					
5.001	3.5.3 - Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m &lt;br&gt; Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3	1245.000	cum	40.40	50298.00	Rupees Fifty Zero Thousand Two Hundred Ninety Eight Only
5.002	4.1.A.1 - Granular Sub-base with Well Graded Material (Table 400.1) &lt;br&gt; (A) By Mix in Place Method &lt;br&gt; Construction of granular sub-base by providing well graded material, spreading in uniform	660.000	cum	3310.00	2184600.00	Rupees Twenty One Lakh Eighty Four Thousand Six Hundred Zero Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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. &lt;br&gt; (i) For Grading I Material					
5.003	4.9 - Wet Mix Macadam &lt;br&gt; 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 & amp; 400.12 and Technical Specification Clause 406. &lt;br&gt; By Mechanical Means with 1 km lead	360.000	cum	3701.00	1332360.00	Rupees Thirteen Lakh Thirty Two Thousand Three Hundred Sixty Zero Only
5.004	5.1.1a - Prime Coat :- Low porosity &lt;br&gt; 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	3000.000	sqm	94.60	283800.00	Rupees Two Lakh Eighty Three Thousand Eight Hundred Zero Only
5.005	5.2.3 a - Tack Coat &lt;br&gt; Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & amp; cleaned with Hydraulic broom as per Technical Specification Clause 503.	3000.000	sqm	17.20	51600.00	Rupees Fifty One Thousand Six Hundred Zero Only
5.006	5.9.1.2a - 20mm thick Open-Graded Premix Carpet using Bituminous (penetration	3000.000	sqm	220.00	660000.00	Rupees Six Lakh Sixty Zero Thousand Zero

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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)					Zero Only
5.007	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)	3000.000	sqm	93.70	281100.00	Rupees Two Lakh Eighty One Thousand One Hundred Zero Only
5.008	11.4.3.1 - Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 & III. P.C.C. grade M 20 (i) Nominal mix (1:2:4)	225.000	cum	9237.00	2078325.00	Rupees Twenty Lakh Seventy Eight Thousand Three Hundred Twenty Five Only

The above work awarded to the contractor Sibi. K.Jose,AEFPJ9150F, at his quoted rate for individual items at a total accepted PAC 348628942( Thirty Four Crore Eighty Six Lakh Twenty Eight Thousand Nine Hundred and Forty Two Only) as per the condition of the contract.