

Vellore City Municipal Corporation

Amrut 2.0 - 24/7 Water Supply

Name of Work: Providing 24X7 water supply Distribution System, including a Complete SCADA System for the water supply system in zone 19&20, within 24 months and Operation & Maintenance for 5 years in Vellore City Municipal Corporation in Tamil Nadu, on Design, Build, Operate and Transfer (DBOT) Basis.

G.O(M.S) No.71 Dated: 20.05.2024.

Sl. No.	Name of the Projects	Approved Project cost	Fund Sharing Pattern		
			GoI Share	GoTN Share	TNUDF Share
1	Providing 24 x 7 water supply to the pilot water zones in Vellore Corporation, Vellore District	13.69 Cr	4.25 Cr	3.83 Cr	5.61 Cr
2	O& M (ULB)	1.56 Cr			
	Total	15.25 Cr.			

Project cost Rs.13.69 Cr. Breakup

Sl.No.	Description	Appraised cost by TNUIFSL Rs.in Cr.
1	Providing Feeder Main with DI & HDPE Pipes – 5309 Mr.	4.65
2	Providing Distribution system with HDPE Pipe – 8474 Mr	1.18
3	Providing House Service Connection – 4157 Nos. (MDPE 24.94 Km.)	1.70
4	Provision for Design Validation, Survey and consumer survey	0.15
5	Providing complete SCADA system for water supply system (Pressure sensor, Quality Sensor, Monitoring and Control units.	2.00
6	Base Cost (A)	9.69
7	Provision for GST (18%)	1.74
8	Sub Total (B)	11.43
9	PMC Cost	0.32
10	Provision for Labour Welfare Fund (1% of B)	0.11
11	Contingencies Physical and Financial (3% of B)	0.34
12	Provision for Price adjustment for the First year (5% in 40% of B)	0.23
13	Provision for Price adjustment for the second year (10% in 60% of B)	0.69
14	Provision for Highway crossings	0.45
15	Shifting of underground utilities (1% of B)	0.11
16	Sub Total (C)	2.26
17	Project Cost	13.69

Approved in the 9th Meeting of the State High Powered Steering Committee held on 20.09.2023

AS: G.O(M.S) No.148 Dated: 22.11.2023

T.S: The Chief Engineer O/o DMA ROC NO.18484/2023/DO1, Dated:18.12.2023
Project Cost Rs.12.75 Cr.

No of Pilot Zone	2
Name of Pilot Zones	Zone 19-Amma Unavagam OHT – 20 LL & Zone 20-EB Colony OHT 10 LL Capacity
Total No of Assessments in 2 Zones	10686
Total No of HSC Connections Provided under AMRUT scheme (Present HSC)	6529
Total No of HSC that can be provided under 24 x 7 Scheme	4157
Ward Covered	9,10,14,6,13 Fully Covered 15,11 Partly Covered
2 Zones Divided (7+5)	12 DMAs
Length of Feeder main	5.309 km (600 – 200 mm DI K7 & 180 – 225 HDPE PN 6)
Length of Distribution Pipe	8.474 km (110 – 225 mm HDPE PN 6)
Total Length of Pipe	13.783 km
Objectives	To Ensure daily and equitable water supply at the rate of 135 LPCD – 24 X 7 to 2 pilot zones (zone 19 & 20) for a population of 61628 (intermediate) in year 2040 with internal plumbing and water meter.
Availability of Water	8.32 MLD (TWAD CWSS & Local Source)
Project Area	7.67 Sq km
Total Road Length	89 km
Project Components	Feeder Main for D system- 5.309km D system for Pipe line- 8.474 km Design Validation & Consumer survey for 89 kms & 10686 Households SCADA System for 12 DMAs & Source points. 4157 New HSC Connections

Tender Details

Tender Published on : 13.01.2024

Pre Bid meeting : 23.01.2024

Tender Date :14.02.2024

Technical Bid Opening on :14.02.2024

No of Bids Received : 2

Name of Bidders : : 1) M/s. Lantrosoft Private Limited, - RR Thulasi Builders (I)
Private Limited.

: 2) M/s. RPP Infra Projects Limited, Erode

Technical Bid Evaluation Report sent to TUFISIL dated : 27.02.2024

Revised Technical Bid Evaluation Report sent to TUFISIL dated : 29.02.2024

Price bid opened on 14.03.2024.

Negotiation letter sent to contractor 14.03.2024

M/s. Lantrosoft Private Limited, 1st Letter dated 15.04.2024 7.50% above

Office letter dated 23.04.2024

M/s. Lantrosoft Private Limited, 2nd Letter dated 26.04.2024 4.50% above

Office letter dated 30.04.2024

M/s. Lantrosoft Private Limited, 3rd Letter dated 30.05.2024 3.30% above

Office letter dated 11.06.2024

M/s. Lantrosoft Private Limited, 4th Letter dated 22.06.2024 3.30% above

Schedule A Construction Material 0.48% Less

Schedule B O & M 32.57%

Schedule C Environment

Re Tender Dated 12.08.2024

Technical Bid Sent to TNFUSIL 16.08.2024.

TNFUSIL clearance mail on 05.09.2024.

Price Bid Opened on 09.09.2024.

Value put to Tender Rs.12,07,46,347.94

Sl.No.	Value Put to Tender) M/s. Lantrosoft Private Limited, - RR Thulasi Builders (I) Private Limited :	M/s. RPP Infra Projects Limited, Erode
Capital Cost	120746347.94	131613575.44	142475918.27
		9%	18%
O&M	1,55,94,418.00	1,69,97,915.62	18401413.24
		9%	18%

Sl.No.	Value Put to Tender	M/s. Lantrosoft Private Limited, - RR Thulasi Builders (I) Private Limited :	
		Capital Cost Rs	O&M
1 st Negotiation	120746347.94	127401886.84 (5.6%)	16453972.32 (5.6%)
2 nd Negotiation		125541395.34 (3.97%)	16213518.60 (3.97%)
3 rd Negotiation		124960395.48 (3.49%)	16138663.19 (3.49%)

Waiting for Tender Award Committee Meeting.

Letter Sent to DMA Office on 24.09.2024

Chief Engineer Proceeding date on 30.09.2024.

Letter of Acceptance 22.10.2024.

Work order issued on 11.11.2024.

Survey work in progress : 1050 out of 10686

SCADA (Supervisory Control and Data Acquisition)

Sl.No	Components	OHT	DMA	TAIL end Pressure cum chlorine	Total
1	PLC/RTU/IoT Controller Unit	2	12	12	26
2	Electro Magnetic Flow Meter	2	12		14
3	Pressure Cum flow Control Valve	2	12		14
4	Pressure Transmitter	2	12	12	26
5	Ultrasonic/ Hydrostatic Level Sensor				2
6	Chlorine Analyzer	2		12	14
7	pH Analyzer	2			2
8	GSM / GPRS Antenna	2	12	12	26
9	GSM / GPRS Sim Card	2	12	12	26
10	Signally Earth Pit	2	12	12	26
11	Lighting Arrester	2	12	12	26
12	Control and Monitoring of all Remote Station				1
13	Scada Software Package				1
14	Power Signal Communication Cable				Lot

Financial Details			
S.no		Description	Amount in Lakhs
i. Establishment of DMAS in Zone 19 & 20			
1	Schedule 1	Supplying, Laying, jointing and testing of feeder mains to DMAs including all earth works etc complete Providing new Distribution mains including Supplying, Laying, jointing and testing of new mains with Providing Sluice, Scour valves for various sizes from 110mm to 250mm including all RCC chamber works and earth works etc complete including Providing EMF meters & Valves at DMA entries of various sizes from 250mm to 600 mm - 5309 mtrs	429.12
2	Schedule 2	Supplying, Laying, jointing and testing of D System of the ommited areas including all earth works etc complete Providing new Distribution mains including Supplying, Laying, jointing and testing of new mains with Providing Sluice, Scour valves for various sizes from 110mm to 180 mm including all RCC chamber works and earth works etc complete including Providing Valves. - 8474 mtrs	66.66
3	Schedule 3	Road Restoration	140.85
3	Schedule 4	Renewal of existing House service connections and Providing new Mechanical water meters of Multijet type for the House service connection - 4157 nos	170.31
4	Schedule 5	Providing SCADA and Instrumentation Works for Water distribution management including demand driven management system and also forming of subzones in the pilot water zones for 24x7 water supply	206.41
5	Schedule 6	Design Validation & Service improvement plan for Water distribution network for 24x7water supply for the wards inside Pilot Zone Area zones including door to door survey of consumers in the pilot zones and preparation GIS Base network map. -- 89 Km	3.87
		Base construction cost - Subtotal - I in Rs. Lakhs	1017.22
		GST @ 18 % on base cost	183.10
		Contingencies upto 2% on base cost	16.93
		Labour welfare fund @1% on base cost	12.75
		Charges to be paid to State Highways, National Highways 3000 m	45.00
		Subtotal - II in Rs. Lakhs	257.78
		Total Estimated cost (I+II) in Rs. Lakhs	1275.00

Project Management Consultancy for Implementing the 24 /7 water supply system

Estimate Amount Rs.	32.00 Lakhs
A.S. Date	O/o DMA Rco.No.000425/2024/WB date 01.03.24
T.S. Date	370/2023-24 date 28.02.2024
Tender Date 1 st call	12.07.2024 – One Tender Received.
2 nd Call	12.08.2024 – No one Participate.
3 rd call	09.09.2024 – L1 M/s Capital Engineering Consultancy Chennai
4 th call	08.11.2024.
L1 Bidder	M/s. SPT Consultancy Services Bagavathy Appartments No.33/1 Vadivelu main street, Perampur, Chennai 600116
LOA Date	20.11.2024.
Work order date	11.12.2024