



Expression of Interest (EOI) Notification.

HYDERABAD METROPOLITAN WATER SUPPLY & SEWERAGE BOARD

O/o Chief General Manager (Engg),
Revenue Circle, Khairatabad,
Hyderabad-500004.

EOI No:02 /CGM(E)/R.C/LORA PRIVATE NETWORK/2019-20, Date:29.01.2020.

Preamble:

HMWSSB planning to establish Private LoRaWAN network for use of various IoT enabled devices to transfer data from device/ sensor end to the Server seamlessly. HMWSSB has various offices in Hyderabad city where in which space will be provided for establishment of Gateways to connect to these IoT devices/ sensors deployed by the department for various purposes like water level indicator, asset tracking, smart meters, vehicle tracking and other IoT based devices/ sensors.

Scope of work:

- 1) Looking from LoRaWAN alliance Network operators
- 2) They Should install the Gateways in around Hyderabad city Up to ORR which spread across 1456 Sq kms duly identifying the suitable locations for installation of Gateways.
- 3) HMWSSB has various offices, which will be given access to vendors to install gateways for the purpose of HMWSSB
- 4) Vendor should verify the feasibility, install the gateways (outdoor /indoor) where ever required to cover entire Service area of HMWSSB, if the shadow zones identified where there is no establishment of HMWSSB, and if any govt building is there it will be provided access in-consultation with them by HMWSSB and vendor need to install the same to cover those areas see that single device should not be left over with 99.99 % uptime
- 5) Gateway equipment should be maintained for a period of 10 years.
- 6) Network is for private purpose of HMWSSB, HMWSSB will be able to share with the other department/ private clients as per decision of HMWSSB officials only.
- 7) Installation, power backup for provide network services in 24x7 mode.
- 8) Electricity(AC) will be provided to prospective vendors for operating the Gateways.
- 9) Tower required for the gateway establishment should be done by the vendor as per LoRa alliance Compliance devices standards.
- 10) Each gateway should be able to manage a minimum of 1.4 M messages / day and IP68 compliant.
- 11) Necessary Electrical & Civil work for establishment of Gateway is the responsibility of network provider.
- 12) Back haul option with 3g/4g /Ethernet to transmit the data from end node to network server
- 13) Registering of end nodes of HMWSSB with the network server and also application server in secured manner as per LORA security standards
- 14) Ensure that Data should not lost during transit from node to gateway to network server and application server
- 15) Establishment of on-premise Network server with management software log management tools and HA database along with the necessary join server and security solutions.
- 16) Integration with the application with wide variety of format through REST API/JSON /any other formats
- 17) Implementation of security in compliance with the LORA V 1.0.2 or above as and when LORA releases new Standards those need to be upgraded automatically.
- 18) Maintenance of gateway and other equipment along with Network server along with the Network management solution and integration with the applications for a period of 10 years along with the Necessary upgrades as per Lora alliance compliance from time to time.

Schedule of Selection Process (tentative):

Sl no.	Activity	Dates
1	Inviting proposals from LoRaWAN Gateway Manufacturers/ Gateway network Operators/ Firms / Agencies	29 .01.2020
2	Pre-bid meeting to be held at HMWSSB, Khairatabad, Hyderabad	03.02.2020 @11.30 AM
3	Last date for submission of technical & financial proposals	10.02.2020 @05.00 PM

The manufacturers/ LoRa Alliance Network gateway operators /agencies shall submit their proposals in sealed covers offering their Technical & Financials (separately) and also duly enclosing all relevant documents i.e., Company profile, previous experience in establishment of LoRaWAN gateway network either in any government or private organization, financial turnovers, any certificates and under taking letters if any for the subject work, to the Chief General Manager (Engg), Revenue Circle, Khairatabad, Hyderabad. Further details can be obtained from O/o. Chief General Manager (Engg), Revenue Circle, HMWS&SB Administrative building rear block, Khairatabad, Hyderabad during office working hours.

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Chief General Manager (Engg),
Revenue Circle, Khairatabad,
Hyderabad-500004.

Hyderabad Metropolitan Water Supply & Sewerage Board LoRaWAN Private Gateway Network Financial Proposal

S.NO	ITEM	Unit	QTY	Unit Rate	GST	Total Amount
1	Fixing ,installation ,commisioning LORA gateways along with the backhual option at the location of HMWSSB	NO's				
2	Providing Network Server with administration application to connect to the Gateways as per LORA standards and security measueres also with High avialablity and bacup etc	NO's				
3	design ,development of application for monitoring the gateways , also integration with the application to monitor the nodes and integration of data with the other application of HMWSSB as per requiement of HMWSSB	JOB				
4	Maitainece cost of Gateways after 1 year warranty period	yearly				
5	Mataince cost for network server after one year	yearly				
6	Maitainece cost of application after one year	yearly				
7	Other mislaneous charges if any	Lumsum				