



## Enabling Smart Cities with Smart Water: SenRa and Chariot deploy Smart LoRaWAN™ Water Meters Solutions in India

Delhi, India – February 14, 2018: Water has become one of India’s leading topics of discussion amongst government, cities, and urban decision makers in the recent years. Water scarcity, water pollution, and water consumption have fast become some of the most challenging issues to address for cities in India today. With the new Smart Cities Mission, an urban renewal and retrofitting program sponsored by the Government of India, 100 cities have been selected to take the water crisis head on. Leveraging the advances of Low-Power Wide-Area Network (LPWAN) technology, two Delhi based tech companies, SenRa and Chariot, have begun collaborating with Smart Cities to support them in addressing the water problems which cities are currently facing.

Chariot, an Indian-based start-up company providing Internet of Things (IoT) solutions, and SenRa, a pan India LoRaWAN™ network provider for IoT and Machine-to-Machine (M2M) applications, have successfully deployed India’s first Smart Advanced Metering Infrastructure (AMI) Ultrasonic Water Meters. With the collaboration from the LoRa Alliance™, an open, non-profit association, a white paper of this recent deployment is now publically available and demonstrates how LoRaWAN™ can be used to contribute to India’s Smart Cities Mission. The white paper is available for download at [www.senraco.com/index.php/smart-water](http://www.senraco.com/index.php/smart-water).

“We are very proud of our recent accomplishments with our partner, Chariot. What we are doing is really making a positive impact on the overall Smart Cities Mission sponsored by the Government of India.” said Ali Hosseini, Chief Executive Officer of SenRa. “Cities are now able to leverage smart infrastructure and smart utilities to have better insight on their water consumption and water distribution methods. With smart governance, citizens will be able to live smarter and happier knowing their water issues are being addressed.”

SenRa will be exhibiting at the Mobile World Congress ([www.mobileworldcongress.com](http://www.mobileworldcongress.com)) from February 27<sup>th</sup> - March 1<sup>st</sup> in Barcelona at the LoRa Alliance Pavilion (Hall 8.0, Stand D3) where they will be showcasing this case study with the Senet, a provider of secure, public, Low-Power Wide-Area Networks (LPWAN) and Managed Network Services for Internet of Things (IoT) applications supporting the LoRaWAN protocol.

You can also find a live demonstration of this solution from Chariot and SenRa at the IoT India Expo ([www.iiotindiaexpo.com](http://www.iiotindiaexpo.com)) from March 7<sup>th</sup> - 9<sup>th</sup> at Delhi’s Pragati Maidan.

### **About NRS Chariot Tech Pvt. Ltd.**

Chariot is an IoT start-up company bringing innovative solutions and technology to the world. Chariot provides end-to-end solutions leveraging its IoT platform and devices with included analytical capabilities to detect patterns in data streams from machines and sensors. Chariot solutions such as smart metering and smart parking work on cutting edge technology to help their customers increase efficiency and improve quality of life. Visit us today at [www.chariotco.in](http://www.chariotco.in).

### **About SenRa Tech Pvt. Ltd.**

SenRa, a contributing member of the LoRa Alliance™, is a LPWAN provider for IoT/M2M applications. SenRa is currently deploying LPWANs throughout India for projects which require secure, reliable, long distance communication at low cost. We work with partners deploying environmentally friendly solutions such as water



meters, air quality monitors, smart agriculture solutions, electric and power meters. For additional information, visit: [www.senraco.com](http://www.senraco.com)

#### **About LoRaWAN™**

LPWAN (Low Power Wide Area Network) is a broad term covering several implementations and protocols, both open-source and proprietary. While other wireless communication technologies available like Bluetooth and BLE (and to some extent Wi-Fi and ZigBee) are not suited for long-range performance, LPWAN provides the longest range with a low data rates.

The technology used in a LoRaWAN™ network is designed to connect low-cost, battery-operated sensors over long distances in harsh environments that were previously too challenging or cost-prohibitive to connect. With its unique penetration capability, a LoRaWAN™ gateway deployed on a building or tower can connect to sensors more than 10 miles away or to water meters deployed underground or in basements.

#### **About LoRa Alliance™**

The LoRa Alliance is an open, nonprofit association that has grown to more than 500 members since its inception in March 2015, becoming one of the largest and fastest-growing alliances in the technology sector. Its members closely collaborate and share experiences to promote the LoRaWAN protocol as the leading open global standard for secure, carrier-grade IoT LPWAN connectivity. With the technical flexibility to address a broad range of IoT applications, both static and mobile, and a certification program to guarantee interoperability, the LoRaWAN protocol has already been deployed by major mobile network operators globally, with continuing wide expansion ongoing. For information about joining the LoRa Alliance, please visit [www.lora-alliance.org/join](http://www.lora-alliance.org/join).

#### **Media Contact:**

##### **Chariot Contact:**

Nilay Mehrotra  
Chief Executive Officer / Co-Founder  
NRS Chariot Pvt. Ltd.  
[nilay@chariotco.in](mailto:nilay@chariotco.in)

##### **SenRa Contact:**

Dhananjay Sharma  
Chief Operating Officer  
SenRa Tech Pvt. Ltd.  
[dhananjay@senraco.com](mailto:dhananjay@senraco.com)