From the desk of the Managing Director

Technology is rapidly changing the way we work and live. There is practically no field untouched by technology. Manufacturing, services, entertainment, medical, agriculture – name the field and technology has a role to play. IoT and Industry 4.0 are the buzzwords today.

Adept is competently leveraging the potential of new technology for bettering its flow instrumentation solutions. **We are ingeniously integrating technology into our products to make water network management smarter, simpler, more efficient and economical.**

Being one of the leading companies in the field, we are in the forefront to introduce unique flow instrumentation solutions, which are compatible with Industry 4.0 and IoT. Not just the introduction but also its installation at one of the India's leading industrial parks is a testimony to our successful development in the field.

We are dedicating this issue of Adept@Work for you to know more about our new outstanding tech-enabled solutions and services. I am sure, you will enjoy reading about them.

After the pandemic-struck difficult year, let us welcome the New Year 2021 with optimism.

My best wishes to you all for a healthy and prosperous New Year!

Sincerely yours,

Vinayak Gadre
Managing Director

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Issue 10: JAN 2021

What is a Smart Meter?

Smart Meters are Flowmeters that can transfer data accurately without human intervention. As they are IoT-enabled, metering data can be logged and stored remotely without breaching the privacy of customers.

Smart Meters –

- ▲ Avoid human error
- ▲ Offer more accurate and precise readings
- ▲ Enable decision makers to manage water distribution networks efficiently

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Issue 10: JAN 2021

Introducing an IoT platform
Smartlit

Awareness about water conservation is now growing and the use of Smart Meters to understand water consumption is becoming common. When multiple Smart Meters are used, their ability to transfer data remotely allows centralised monitoring of flow data. SCADA systems are typically used at installations that have such requirements.

We have been offering SCADA automation solutions since 2012 and have several installations across the country. During the year 2020, we have invested considerable time to fine-tune our technology further and make it compatible with several industry-leading communication platforms. This new version has been named 'Smartlit'. It offers smart user interface and a host of user-friendly features, making it one of the best IoT platforms in the market today.

Smartlit allows you to retrieve data on water consumption from Flowmeters installed at remote sites, that too, from the comfort of a centralised control room. **The mode of communication can be wired (Ethernet) or wireless (GPRS, NB IoT, LoRaWAN).** Smartlit is useful for compiling, viewing and printing of data. Through the compilation of such data, it is possible to understand the usage pattern and take corrective measures for optimising water usage. A 'Billing Feature' has also been incorporated to commercialise water usage.

Smartlit is ideal for companies and organisations dealing with several Flowmeters, such as sugar, fertilisers, chemicals, pharmaceuticals, food & beverages, power plants, cooling towers, industrial parks, ETPs and WTPs.

Smartlit is sure to change the way water networks are being managed.

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Issue 10: JAN 2021
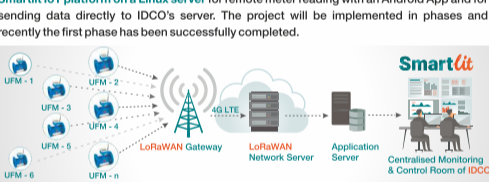
LoRaWAN and GPRS-based communication to Smartlit
Our successful installation at Odisha IDCO marks the beginning of a new era

The Odisha Industrial Infrastructure Development Corporation (IDCO) is the Nodal Agency for providing industrial infrastructure in the state of Odisha. IDCO wanted to install smart water meters on pilot basis at various industrial parks in Deras, Kalinga Nagar, Khorda and Rourkela, which are drawing water from different sources.

We have been selected for handling this project through a tough bidding process and rigorous inspection of our manufacturing and testing facilities. The complete project involves installation, commissioning and five years' on-site comprehensive annual maintenance of over **200 smart water meters** based on ultrasonic technology and sizes ranging from 25 mm to 800 mm dia.

We have provided **LoRaWAN as well as GPRS network-based communication to our Smartlit IoT platform** on a Linux server for remote meter reading with an Android App and for sending data directly to IDCO's server. The project will be implemented in phases and recently the first phase has been successfully completed.

The important features of the project are

- ▲ Wireless communication between Ultrasonic Flowmeters and LoRaWAN/GPRS modem.
- ▲ The IoT meter transfers the data about the amount of water consumed and also the health of the IoT meter. This includes flow sensor connectivity, battery health and the health of the electronics.
- ▲ Flowmeter data is captured from Adept Ultrasonic Flowmeters and gets transferred automatically to the central server of IDCO via web service.
- ▲ Smartlit software – All the IoT meters that are on the network are visible on the dashboard and various parameters of the user, like consumption, health, billing, bill payments, etc. are displayed.
- ▲ The overall system is capable of generating reports for daily, weekly, monthly and yearly basis in various formats as per the requirement of IDCO officials.
- ▲ Battery life of 5 years for all Ultrasonic Flowmeters.
- ▲ All components such as modems and Flowmeters conform to IP 68 protection class.

This installation is a testimony to our successful development of Smartlit and our competence in the flow instrumentation field. We are thankful to the Odisha IDCO team for their trust in our capability.

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Issue 10: JAN 2021

Smart water metering for smart buildings
Introducing water metering as a service — FlowON

Growing urbanisation is exerting pressure on the available infrastructure and resources, and water is no exception. New townships and smart cities are already taking steps to provide metered water connections so as to keep a check on water usage. However, the sheer number of units in such localities is increasing the strain on the resources of governing bodies and facility management agencies.

As a leading flow metering solutions provider, we have come up with a 'smart' answer to this challenge. **Our newly introduced service – FlowON is ideal for smart metering of water consumption by individual units in large townships, gated communities and smart cities.**

Smart Meters for Smart Buildings

DWM Ultrasonic Water Meter

FlowON Smart Water Meters are installed at every inlet point. Advanced electronics fitted in the meter record consumption and send it to the cloud software. Water consumption related data and its analysis are available to the individual user via a smartphone app. Such data can be used by the facility manager for automated billing and analysing water consumption. Real-time data being available to both ensures complete transparency in operations and management.

Moreover, installing a FlowON Smart Water Meter is a simple cut and paste job – cut the pipe, paste the adaptors and fix the meter at every inlet. Available in sizes from DN 15 to DN 25, FlowON Smart Water Meters offer brilliant performance in accordance with ISO 4064.

We offer water metering as a service, assuring you of lower monthly costs and long-term reliability. Join thousands of happy users in beating the water crisis by conserving up to 35% water in their homes and help make a better world for the next generation!

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Issue 10: JAN 2021

Expect seamless support throughout your order lifecycle.
A dedicated and expert Customer Experience Engineer is always at your service!

We are always in search of new ways to serve our customers better and more efficiently. With the ever-growing number of customers and multiple orders from the same customer, we thought of streamlining the customer experience further.

Now, each customer will have a dedicated **'Customer Experience Engineer' (CEE)** who will be responsible for providing all the required information and updates, right from the enquiry stage, throughout the order lifecycle and even afterwards for service support. All our CEEs are qualified Instrumentation/Electronics Engineers and will be your single point of contact.

One person, one mobile number, one email id – that's all you need.

Experience seamless support throughout your order lifecycle and even afterwards.

Write to us for more information, and to let us know how we can serve you better.