

Water Management Solution

Powered by IoTivity



Who We Are

Incorporated in 2017, we are a technology driven, DATA acquisition & Connectivity provider company. IoTivity strives on SIM – **SMART, Innovation & Management**, with its focus on to bring out the best of the man and machine harmony.

We primarily work as an IoT based complete solution provider, that aims in creating socio impact. We recognize the ever-changing techno-commercial diorama and constantly keep updating ourselves to cater our client's need and keep their business running smoothly.

A humble start with a mix of passionate business professionals and technology experts, which gives us the ability to have a better understanding of not only client's technical needs, but provide them a value for money solution each time.



An ISO 9001:2015 & ISO / IEC 27001:2013 Company



2017 Founded



100+ Satisfied Customers

Our Vision & Mission

Our Vision

Go Green – Drive IoT enabled “Green India”.

Our Mission

Align with Global initiatives in contributing to making India a Smart, Clean, Green, Rich in natural resources nation using IoT.”

Already aligned with Govt initiatives like Nirmal Bangla, SBM, Water Policy, AMRUT, JNNURM etc.



Snapshot of What We Do



Connectivity Solution

We are the second company in the country to introduce multi-operator embedded SIM into the country. Under the mandate of Govt. of India these are used in m2m communication and AIS104 standard GPS-VTS applications as part of the GOI's intelligent transport project.



Smart Environment Management

For advanced users we provide remote control solutions based on our in-house developed application platform for river water flow & level monitoring, temperature and humidity monitoring, environment and weather stations (Disaster management), pollution control.



Smart Water Management

We have expertise in sensor based automation of various use cases in SMART Water Distribution and Quality Management using IOT technologies. We provide water pump automation and level management solutions in the domestic, commercial and industrial sectors along with host of other sensor based solution.



**SMART WATER
MANAGEMENT
SOLUTION**

Scope of Work

Installation of Water level monitoring solution in various water tanks Under Bidhannagar Municipal Corporation.

Location / Authority

In various water tanks at SaltLake under Bidhannagar Municipal Corporation.

Commissioning

The System continues to work perfectly and provides round the clock real time information on water in-flow and out-flow which is accessible to our Officers at BMC, along with online status through water.iotivity.in web-portal and Mobile APP

DATA Communications Details

Data Logger :

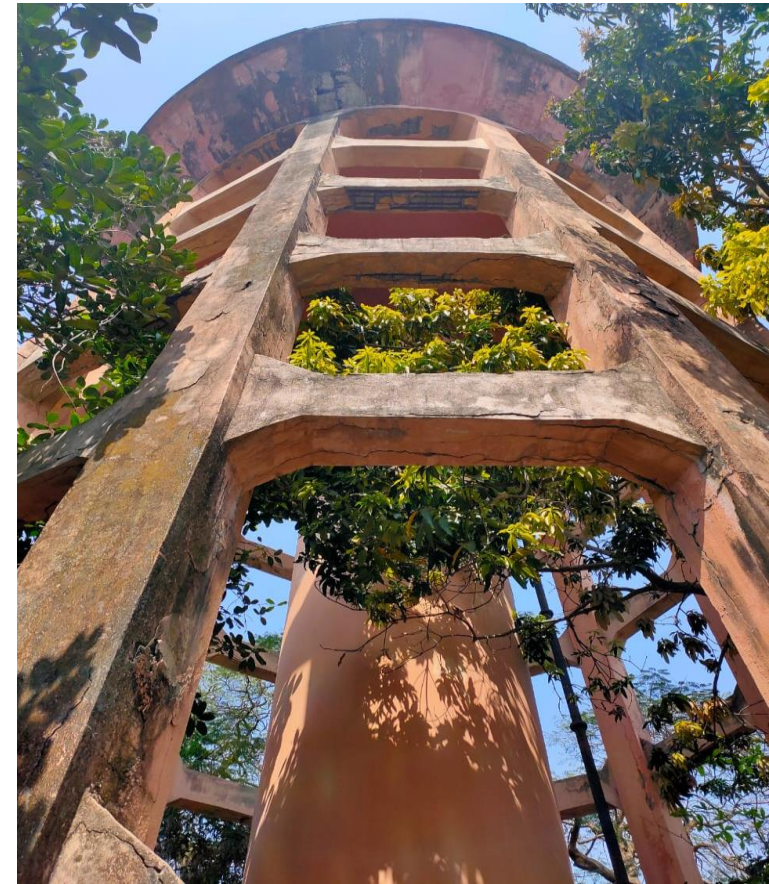
The data logger is part of the m2m GSM communication device and can store up-to 8 GB of data (One year of data file) and is expandable up-to 32 GB. The data logger stores the data as a string data in csv format.

Data Communication :

- The m2m GSM communication device periodically polls the data from the ultrasonic water meter using MODBUS/protocol in digital interface or 4-20mA of analogue interface.
- The m2m communication device is populated with multi-operator SIM for data transmission. In case of poor or fluctuating GSM network the device will automatically switch GPRS network service provider. This gives reliability of real-time data transmission. In case of any network outages the data will be stored in the memory and will be sent when the connectivity resumes.
- Data transmission MQTT/TCP-IP/HTTP.
- The water meter data is sent to the cloud server over GPRS.



Highrise Water Tank at Saltlake



Real Time Water Level Monitoring Instrumentation Module

Water Meter

Sl.	Location	Tank Name	Device Id.	Flow Rate	Totalizer	Date & Time	Signal
1	BMC Kolkata	Tank 1	DEV_1	293.22	1000	2019-09-12 12:26:00	●
Sl.	Location	Tank Name	Device Id.	Flow Rate	Totalizer	Date & Time	Signal

Water Meter Page

All Server infrastructure are cloud based and is compliant to govt of India IT norms. We have in-house team for all development and maintenance.

IoTivity provides all water data on real-time basis over web-portal and mobile app. The reports and analytic are customizable as per requirement.

We have servers supporting various protocols like TCP, HTTP, HTTPS, FTP, MQTT, TCP for integration with any sensors or devices.

Water Quantity

Bidhannagar Municipal Corporation

Show 10 entries

Search:

Sl No	Location	Tank Name	Present Water Level	Current Level	Tank Capacity(Lt)	Current Water(Lt)	Date	Signal
1	kolkata	Tank-1 (OHT)	16%	16%	454249	72680	12-Sep-2019 12:26:51	●
2	kolkata	Tank-1 (UGR)	89%	89%	454249	404282	12-Sep-2019 12:29:21	●
3	kolkata	Tank-3 (OHT)	24%	24%	454249	109020	12-Sep-2019 12:13:50	●
4	kolkata	Tank-3 (UGR)	98%	98%	454249	445164	12-Sep-2019 12:26:39	●
5	kolkata	Tank-4 (OHT)	33%	33%	454249	149902	12-Sep-2019 12:22:06	●
6	kolkata	Tank-4 (UGR)	86%	86%	454249	390654	12-Sep-2019 12:27:53	●
7	kolkata	Tank-7 (OHT)	15%	15%	454249	68137	12-Sep-2019 12:28:59	●

Project 2 | Gallery



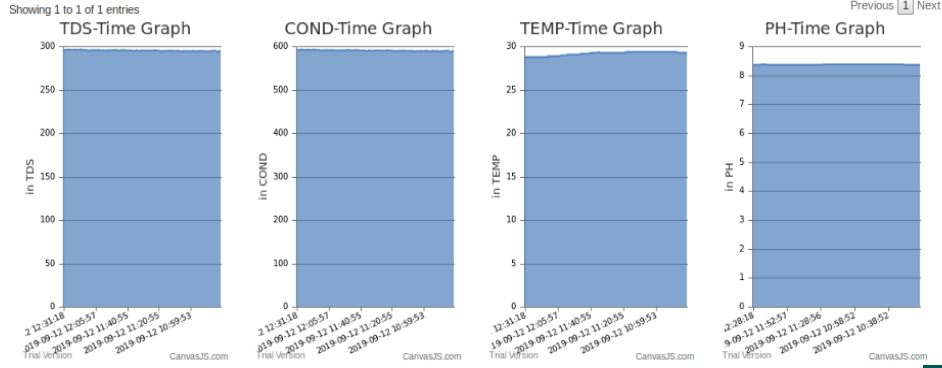
IoTivity Home Tank Details View Graph Water Meter Quality Report Logout

[Update Tank Details](#)

Show entries Search:

Date	Conductivity(2-2000)	Temperature(0-100)	Tds(1-1000)	PH(0-14)
2019-09-12 12:31:18	593.25	28.8	296.62	8.38

Date	Conductivity	Temperature	Tds	PH
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Mobile Application Interface

Water Quality Measurement

BMC-Salt lake Kolkata

- Tank-1 (OHT) 98%
- Tank-1 (UGR) 84%
- Tank-3 (OHT) 97%
- Tank-3 (UGR) 84%
- Tank-4 (OHT) 100%
- Tank-4 (UGR) 100%
- Tank-7 (OHT) 81%

Tank-1 (OHT) Details:
 Date: 12-09-19 11:05
 Device ID: 80156 Capacity: 454249(Lt)
 Low Level: 10% Current Water: 381569(Lt)
 High Level: 99% Current Level: 84%

Tank-1 (OHT) Graph:
 Legend: Percentage (blue), WaterFlow (dark blue), Overflow (orange).
 The graph shows a sharp increase in water flow followed by a decrease and then a plateau.



BIDHANNAGAR MUNICIPAL CORPORATION

Poura Bhawan, FD-415A, Sector-III
Salt Lake City, Kolkata-700 106

Kolkata
30th July 2019

TO WHOMEVER IT MAY CONCERN


This is to certify that IoTivity Communications Private Limited based in Kolkata, has successfully installed Real Time Water Level Monitoring System and Ultrasonic water flow meter at our Water Distributions Tanks since 06.11.2017.

The System continues to work perfectly and provides round the clock real time information on water in-flow and out-flow which is accessible to our Officers at BMC, along with online status through water.iotivity.in web-portal and Mobile APP

Their Service to educate the users to manage the system is proactive with constant monitoring of the system.

We are delighted to install the system.

We wish them successful endeavors in the future.



Executive Engineer
Bidhan Nagar Municipal Corporation
Salt Lake, Kolkata 700016

Project 3 | Installation of Water Level Controller at Sikkim Hydropower Project



Scope of Work

Installation of water level controller to check availability and continuous flow of water to the turbine.

Location / Authority

Rangoli HE project East Sikkim

Project Duration

19th – 22nd December, 2017 (4 Days)

Project Impact

This solved the issue of sudden stoppage of water flow to the turbine. In case of non-availability of water in the incoming pipe-line then the hooter raises the alarm and the duty officer in the control room can stop the turbine safely. This helps in avoiding the turbine running dry.



Turbine water is fed through pipe from distance location and height.

HE Plant Location





Turbine

PAN NO. AAMCS 4611G
TAN NO. CALS21582 B



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SIKKIM POWER DEVELOPMENT CORPORATION LIMITED

(A Government of Sikkim Enterprise)

31-A, National Highway, Near UD & HD Department, Gangtok - 737101, Sikkim, INDIA

Ref. No. SPDC /

Dated 21.12.2017

MINUTES OF MEETING

Minutes of meeting held between M/S Sikkim Power Development Corporation Ltd. and M/S IoTivity Communications Private Ltd. on 19.12.2017 at Rongli HE project, East Sikkim. Mr. Shiranka Saha Product manager with Service Engineer of IoTivity Communication Private Ltd. reported at Rongli site on 19.12.2017 and leave the site on 21.12.2017.

Subject:

- Installation of wireless water level controller at fore bay tank.

Job done:

- Installation of wireless water level controller at fore bay tank on 19.12.2017.
- Fixed the monitoring system in power house and placed the transmitter at bore bay tank.
- Take a trial of 24 hrs. and find the system in good condition and functioning well.

We set the system parameters as follows:

1. Water full status- 100%
2. Overflow- above 100%
3. Minimum water level- 45% (penstock top level).
4. Water flow status.

For IoTivity Communications Private Limited

SPDC
Senior Engineer
Rongli HE Project
Sikkim Power Development Corporation Ltd.
(A Govt. of Sikkim Enterprise)

Shiranka Saha
IoTivity communications Private Limited
Product Manager

Contact Us



WE ARE
JUST A CALL AWAY

REGISTERED OFFICE

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End