



ascent intellimation

An ISO 9001:2008 company

Citywide Water Distribution Monitoring System



www.aiplindia.com
www.plantconnect.net



Common Problems

- Water availability in cities continue to be inadequate, despite concentrated efforts by the various levels of government
- No real time picture of water distribution is available to any user and specially senior officials
- Quality of water supplied at end points is never captured to asses efficacy of filtration and distribution
- Leakages and thefts in the water distribution system further impact water availability to genuine users
- Due to lack of data, political consideration and personal issues may drive decision making

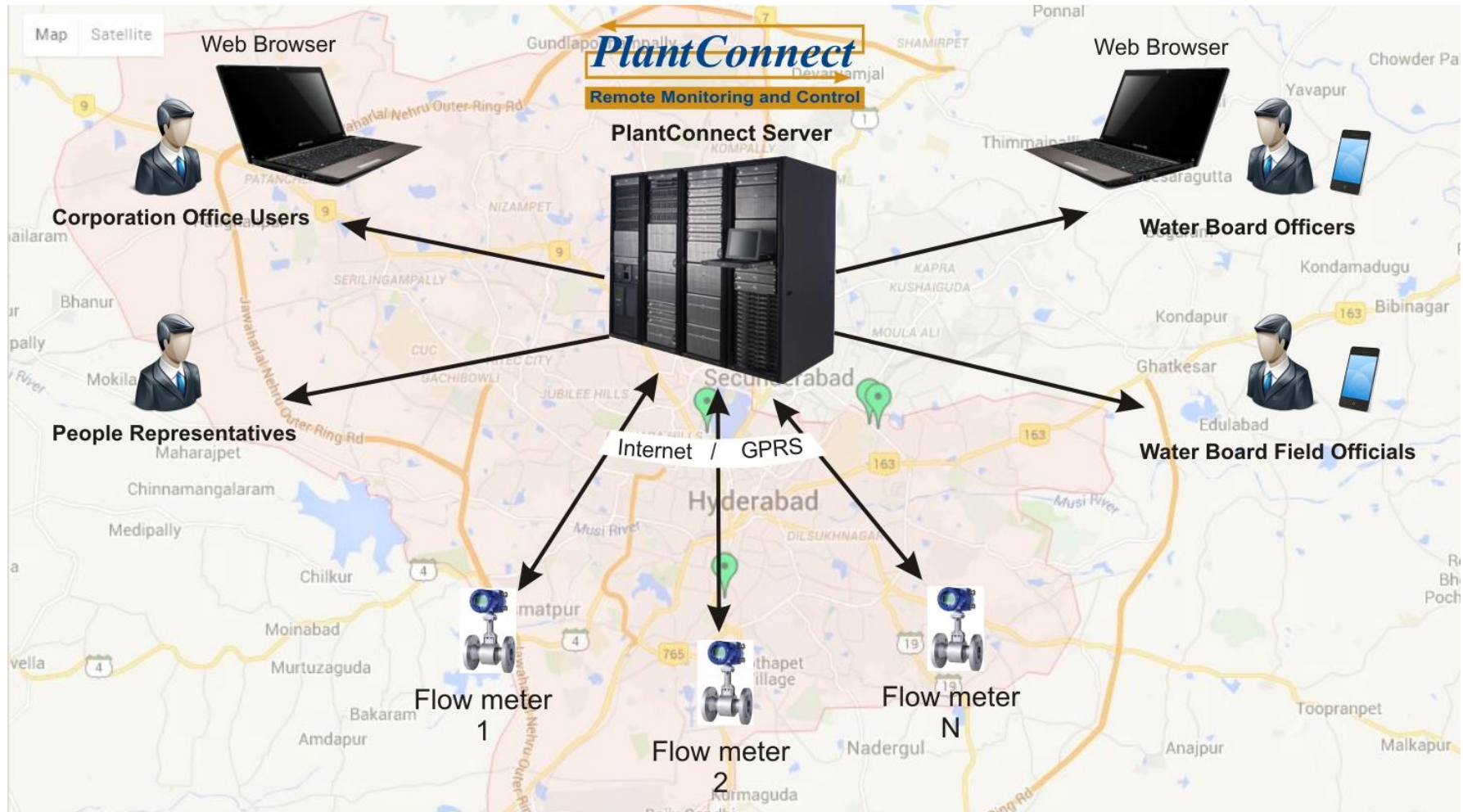


PlantConnect Water Solution

- PlantConnect is solution of AIPL which is leader in Indian market for stack and ETP monitoring
- Water flow meters, water quality analysers and valves can be connected in on line mode for real time data
- Quality of water at each node and its comparison with set expected standards
- These hardware could be supplied by any company and of any make
- Status of various equipment and analysers and alerts for equipment malfunction and maintenance
- Data will be available at a central server and can be accessed from anywhere, 24*7 by authorized users
- The data can be accessed over mobile phone app
- Field engineers can also manually write the data to the system



Deployment Diagram





As a web based system all the users can have access to the system 24*7. Various users can access the system as per access given to them.

1. Municipal Corporation Officials
2. Water Board Officials
3. Water Board Field Officers
4. People Representatives like MLA, Corporaters



Various standard reports are available as listed below and more can be added

1. Real time water flow data at each node
2. Real time cumulative water flow data at each mode
3. Max allocated quota vs actual supplied quantities
4. Status of various equipment and analysers
5. Quality of water at each node and its comparison with set expected standards
6. Alerts for equipment malfunction and maintenance



Road map for additional modules

In future the system can be used further to get more updates and effective use

1. Domestic water metering and billing system can be added on top of the distribution system
2. Access to citizens as part of e-governance initiative is possible
3. Water theft and leakages can be identified and localized for penal and other actions
4. Revenue driven models can be build around the system for real PPP models
5. Equitable Water Distribution algorithms can be added



Case Study – HMWSSB (Pilot Project)

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Case Study - Dashboard



HMWSSB - Ascent Intellimati

59.90.209.144:8060/enviroconnect-hmwssb/servlet/com.aipl.pls.web.admin.AdminServlet

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Shahabad Thimmapur Pocharam Seetharampet

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Device Tree

- HMWSSB Home
 - Aliabad
 - Aliabad
 - Flow Meter 2
 - Level Transmit
 - Control Room
 - Control Room
 - Flow Meter 1
 - Level Transmit
 - Hasmathpet
 - Hasmathpet
 - Flow Meter 4
 - IICT
 - IICT
 - Flow Meter 5
 - Nacharam Road
 - Nacharam Road
 - Flow Meter 3

Device Status as on 7 Apr 2016 17:11:23

Status	Count
On [ON]	5
DelayedData [DLY]	0
Calibration [CAL]	0
Maintenance [MNT]	0
Off [OFF]	3

Calibration History as on 07 Apr 2016

Category	Count
0 - 7 days	0
8 - 30 days	0
31 - 90 days	0
More than 90 days	0
Not known	5

Devices statistics as per state and industry sector

State	Number of Devices
TS	8

Devices (%) with alarms for period 01 Apr 2016 to 07 Apr 2016

Good news! There are NO Alarms for selected period

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start HMWSSB - Ascent Int... CETP Inbox - Microsoft Out... Microsoft PowerPoint ... 5:11 PM

PlantConnect

Remote Monitoring and Control



Case Study - Reports

municipal water distribution - x HMWSSB - Ascent Intellima... x

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Aliabad - Flow Meter 2

Function : Average Station Report

Table View | Chart View

Parameter	Allocated Qty	Total Flow	Flow Rate
Unit	ML	ML	M3/hr
Limit	0 - 0	0 - 0	0 - 1000
01-04-2016 00:00:00	4000000	1937947	1602221 B
02-04-2016 00:00:00	4000000	1983671	1883 B
03-04-2016 00:00:00	4000000	2029439	1992 B
04-04-2016 00:00:00	4000000	2075570	1893 B
05-04-2016 00:00:00	4000000	2120777	1953 B
06-04-2016 00:00:00	4000000	2166540	5569988 B
07-04-2016 00:00:00	4000000	2205509	4113598 < B
Average	4000000.0	2074207.5	1613361.3
Geom.Mean	4000000.0	2072250.3	470
Maximum	4000000.0	2205509.3	556999
Median	4000000.0	2075569.8	19
Minimum	4000000.0	1937947.0	18
Mode	4000000.0	2120776.6	41135
Std.Deviation	0.0	97214.4	23199
Total Active Duration			

Aliabad - Flow Meter 2 (connected)

Function : Average Station Report

Table View | Chart View

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Reports

Data Upload Status

Alerts - All Devices

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Reports

Data Upload Status

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Case Study – Total Flow Report



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Aliabad - Flow Meter 2 (Connected)

01-04-2016 03:00	1920513.00	0.00	2240.00	4000000
01-04-2016 04:00	1920513.00	0.00	2240.00	4000000
01-04-2016 05:00	1924840.00	0.00	1924840.00	4000000
01-04-2016 06:00	1926944.00	0.00	2040.00	4000000
01-04-2016 07:00	1928740.00	0.00	1980.00	4000000
01-04-2016 08:00	1928740.00	0.00	1980.00	4000000
01-04-2016 09:00	1930699.00	0.00	1960.00	4000000
01-04-2016 10:00	1930699.00	0.00	1960.00	4000000
01-04-2016 11:00	1936237.00	0.00	1790.00	4000000
01-04-2016 12:00	1936237.00	0.00	1790.00	4000000
01-04-2016 13:00	1936237.00	1766.00	1810.00	4000000
01-04-2016 14:00	1941628.00	0.00	1820.00	4000000
01-04-2016 15:00	1941628.00	0.00	1820.00	4000000

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PlantConnect

Remote Monitoring and Control

Thank You!

Reach us to know more

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