



SAMPTEL TECHNOLOGIES
PRIVATE LIMITED
www.samptel.com
info@samptel.com
9687680582

IoT, Industry 4.0 and Factory Digitization Service
Provider



samptel

Introduction

We are leading IoT, Connectivity and Software products and solution provider to Oil & Gas, Process and Manufacturing Industries. IoT allows industries to connect physical devices and systems to the internet, collect data in real time, and analyze it to improve efficiency, productivity, and quality.

We help Industries by providing the best solutions for this using the latest technologies combinations like IoT, VPN, Drivers, ERP and Integrations.

Core Team Strength

Our core strength is that we have expertise in both IT [**Information Technology**] and OT [**Operation Technology**]. Expertise in industrial protocol and web technologies like Modbus, Profinet, MQTT, Dashboard, Security which make unique combination required for any system integrator.

Expertise – Industrial Protocol (OT Integration)

We have expertise in understanding and implementing Industrial protocols and web technologies.

Major Industrial Protocol we use to collect data from machines or process plants

- **Modbus**
- **Profinet**
- **OPC**
- **Bacnet**
- **Ethernet IP**
- **SLMP**
- **IEC 104**
- **CAN**
- **Raw data or custom protocol over serial or TCP**

Server side we use the latest web technologies to provide fast, secure and user friendly solution to manage manufacturing process.

Expertise – Information Technology

We have also expertise in Web and Desktop based software which can provide you best user experience, data analytics and reporting tools.

We focus below major aspects of IT solutions

- Integration with OT (Machine / Field data)
- Security (TLS, Data security at rest and on transit, 2FA Authentication)
- Performance (Uses the fastest framework to provide result at blazing speed)
- Use Experience (Balanced combination of easy operation and features)
- Database (SQL, Timescale, Cassandra etc)
- REST API and Integration with other systems
- Startup and Backup utility
- Rich visualization widgets
- Detailed and customized reporting and analytics

Industries we serve



Manufacturing

Product and Machine manufactures



Process plants

Water treatment, Chemical treatment, Pharma



Power plants

Hydro, Windmills, Thermal



Oil and Gas

Flow, pressure and various parameters monitoring on Pipe networks



Smart Cities and BMS (building management system)

Smart traffic & parking, Smart metering, Security and Surveillance



Automobiles

Vehicle and asset tracking, Drones

Our solution used At



IndianOil



adani



GAIL (India) Limited



Vadodara Enviro Channel Limited



SMEW

World Class Winding Technologies

OUR INNOVATIONS = YOUR PROFITS

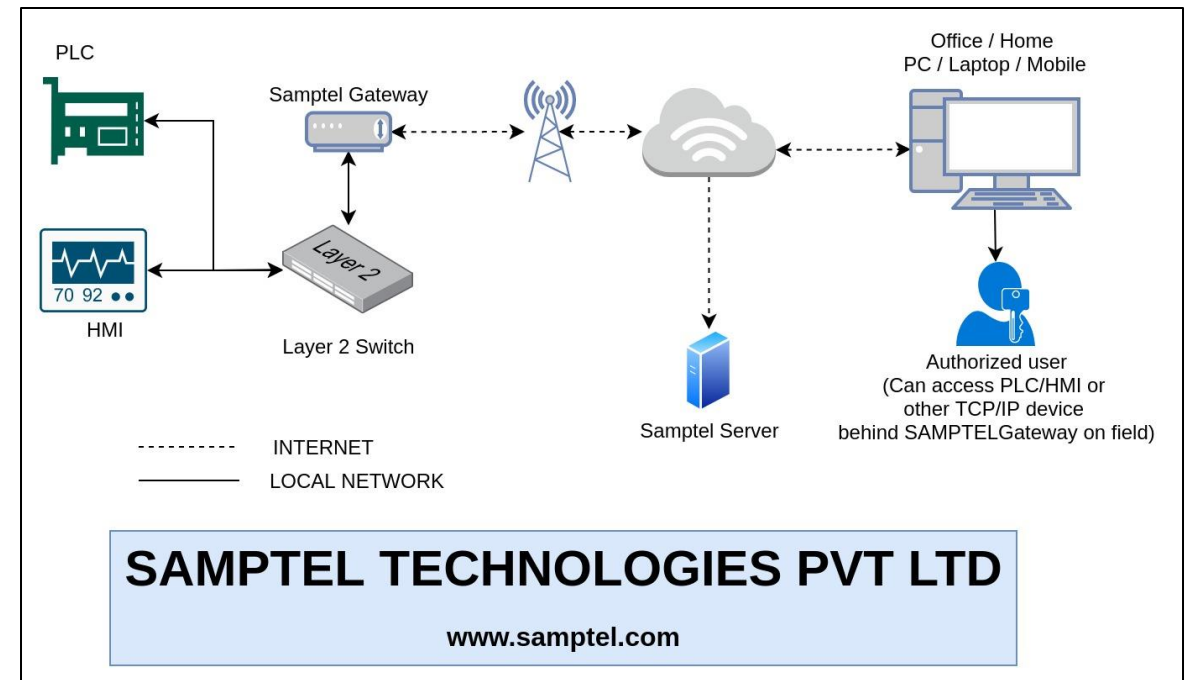
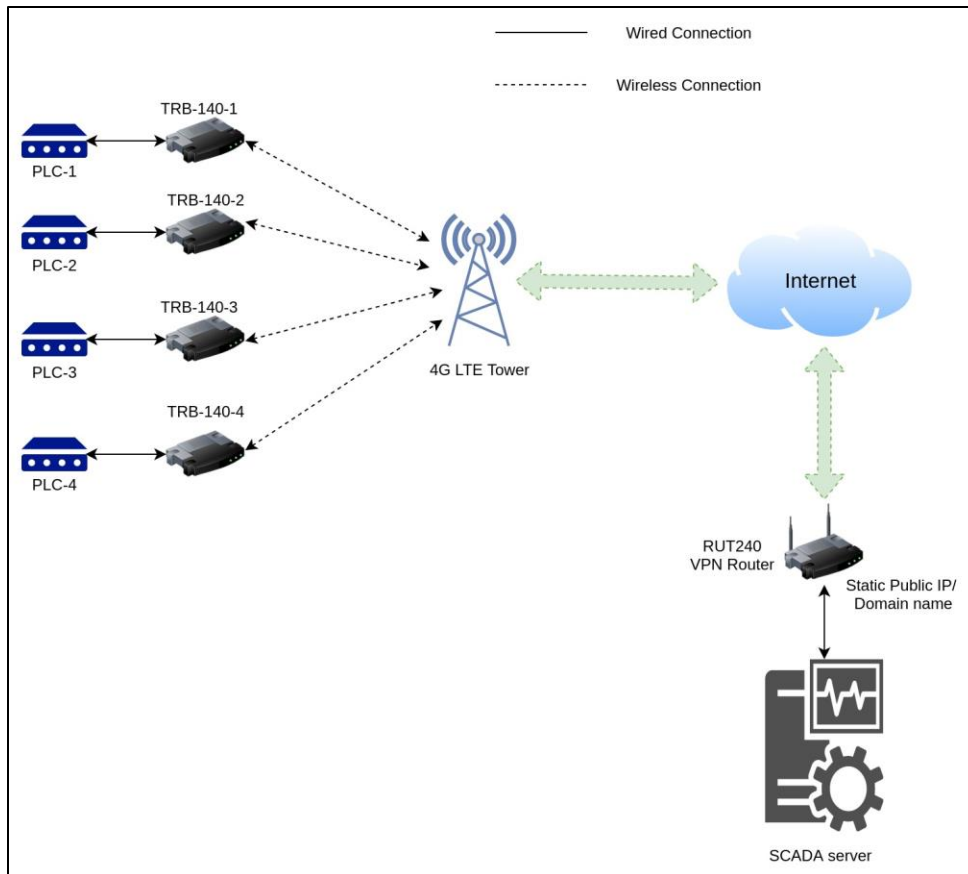


The Green Environment Services Co-op. Soc. Ltd.
ISO 9001, 14001 and OHSAS 18001 Certified Organization

PLC & SCADA Connectivity

Our VPN services enables communication between field devices and office PC. Use cases :

- Remotely access field device for debug
- SCADA can connect to field device to poll them to read / write
- Read / Write between multiple remote field devices



Add Batch

Batch Name: Enter Batch Name

Brand Name: Select Brand

Product Name: Select Product

Item Name/Code: Select Item

Length (MTR): Enter Length

Average Weight (KG): Enter Weight

Minimum Weight (KG): Enter Minimum Weight

Maximum Weight (KG): Enter Maximum Weight

Description: Enter Description

| Sr. No | Batch Name | Brand Name | Product Name | Item Name/Code | Minimum Weight(KG) | Maximum Weight(KG) | Info | Edit | Status |
|--------|------------|------------|--------------|----------------|--------------------|--------------------|------|------|----------|
| 11 | PVC | PVC Pipess | Rajan | RT45 | | 52 | | | Active |
| 12 | Samptel | PVC Pipess | Rajan | PVC | 5.652 | | | | Active |
| 13 | Rajan | PVC Pipess | Samptel1 | PVC | | 0 | | | InActive |

Manage Report

Assembly Name: Second | Shift Name: All | Operator Name: All

Brand: All | Product: All | Item/Code: All

Time Duration: Custom

Start Time: 16/03/2022, 12:40 | End Time: 30/08/2023, 12:40

Download PDF | Generate Report

| START DATE TIME | END DATE TIME | ASSEMBLY | NO | SR NO | SHIFT | OPERATOR | BRAND | PRODUCT | ITEM CODE | ITEM SIZE | QUALITY CONTROL | HELPER | BATCH(LENGTH) | ACTUAL WEIGHT | RANGE | LENGTH DEVIATION | WEIGHT DEVIATION | DATE |
|---------------------|---------------------|----------|----|-------|-------|----------|------------|---------|-----------|-----------|-----------------|--------|---------------|---------------|-------------|------------------|------------------|---------------------|
| 2022-03-16 12:40:00 | 2023-08-30 12:40:00 | Second | 1 | 541 | day | jay | PVC Pipess | Rajan | PVC | 12 | Samptel | KALESH | 5 | 5.7 | 5.650-5.652 | -5 | 0.048 | 2022-11-04 11:42:15 |
| | | | 2 | 542 | day | jay | PVC Pipess | Rajan | PVC | 12 | Samptel | KALESH | 5 | 5.7 | 5.650-5.652 | -5 | 0.048 | 2022-11-04 11:52:21 |

| Brand | Product | Item | Count |
|---------------|---------------|---------------|------------|
| PVC Pipess | Rajan | PVC | 5 |
| REALFLEX | BRAIDED | RTR8 | 8 |
| igjar samptel | igjar samptel | igjar samptel | 477 |
| mayurflex | braided | mayur_test | 53 |
| | test | | 52 |
| | | | 1 |
| | | | 1 |
| Total | | | 544 |

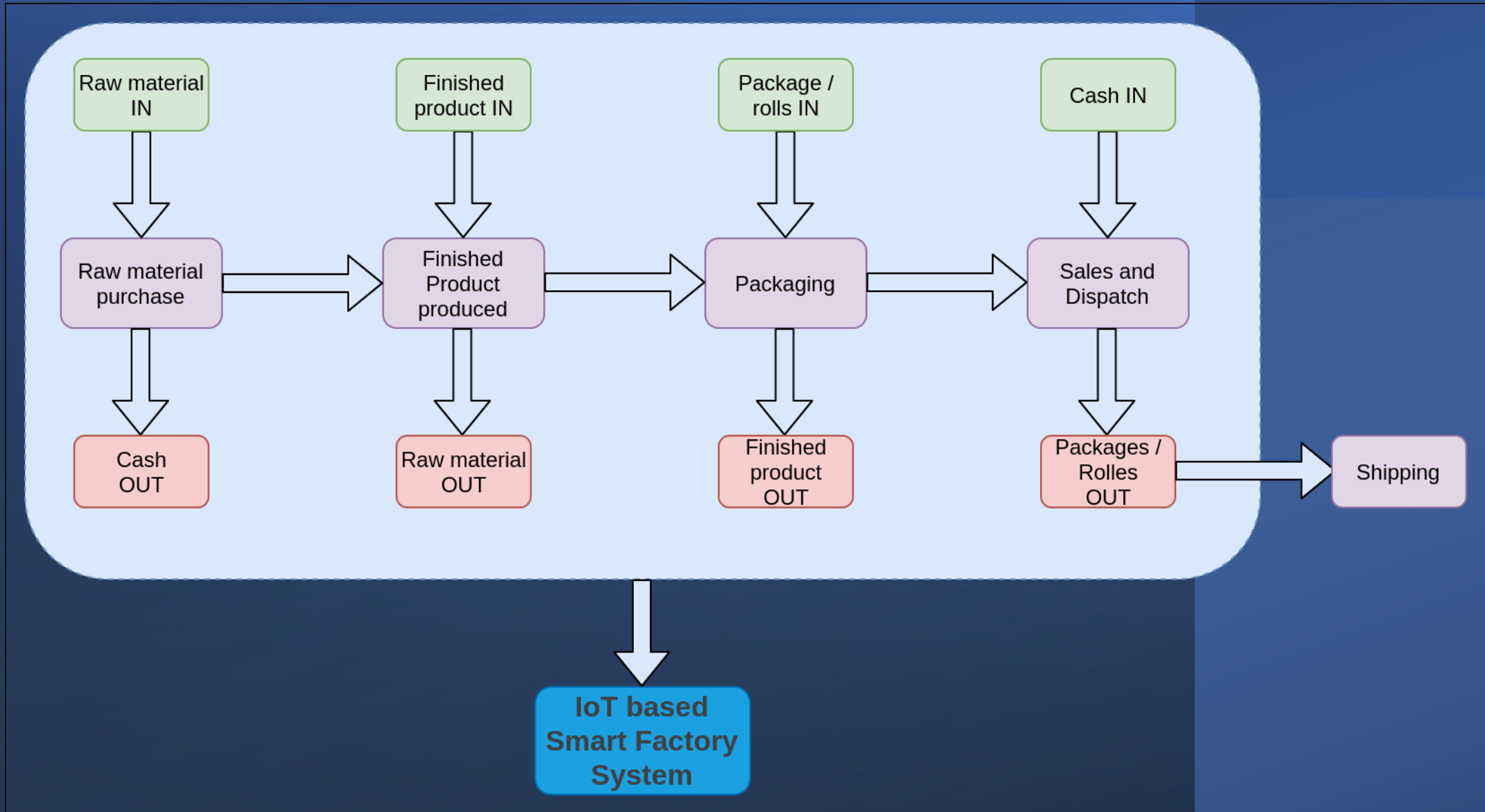
Digital manufacturing solution

Using IoT technologies to get data from manufacturing machines and use data to implement inventory management, cost calculation, worker efficiency, product variants management, label sticker management

- Sticker printing for identify manufactured rolls.
- Reporting

Digital manufacturing solution - Ongoing

- Different stages to collect data from various system
 - Purchased raw material (From Accounting system)
 - Cash Out, Raw material In
 - Semi finished product manufactured (IoT, From Machines)
 - Raw material Out, Semi finished product In
 - Finished product manufactured (IoT, From machines)
 - Semi finished and raw material Out, Finished product In
 - Finished product dispatched to customer (From dispatch application using barcode, and accounting system)
 - Finished product Out, Cash In



IT and OT integration for manufacturing plant

Provided IoT solution to customer to read data from manufacturing plants.

Read data from machines using industrial protocols

Store and manage data coming from machine

Provide data visualization for monitoring manufacturing parameters

Provide valuable data to customer's IT system for further processing

Waste water treatment plant monitoring and control

Read data from various PLC, RTOM and HMI from control panel

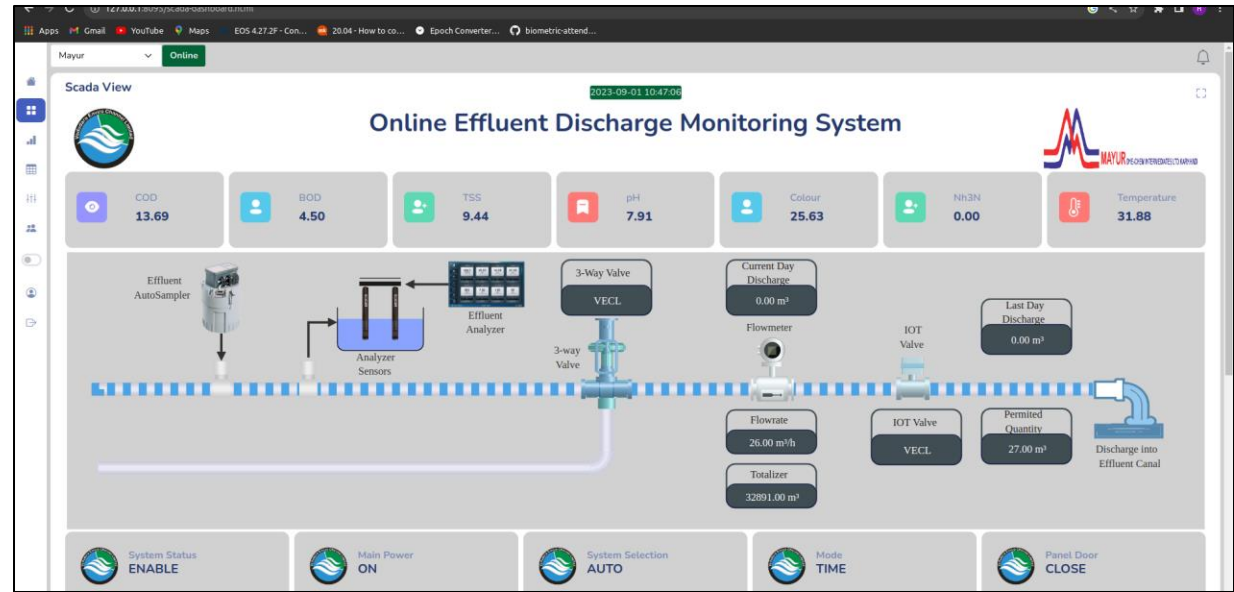
Process data locally in edge gateway and send to server for monitoring and reporting

Server front end for users to monitor and control

Roll based permission to user for various operation like admin, company users, monitor and control access etc

Manual and Auto report using email, customized report with excel formula and company logo

Remote control operations for controlling valves and alarm rules



Alarms Time Window Last 7 Days 2023-09-01 10:58:02

ThreeWay Valve V... ThreeWay Valve By... ThreeWay Valve V... ThreeWay Valve By... IOT Valve Error ThreeWay Valve Er... ThreeWay Valve By... ThreeWay Valve V...

3 way valve position - ... 3 way valve position - ... 3 way valve position - ... 3 way valve position - ... IOT valve error 3 way valve error 3 way valve position - ... 3 way valve position - ...

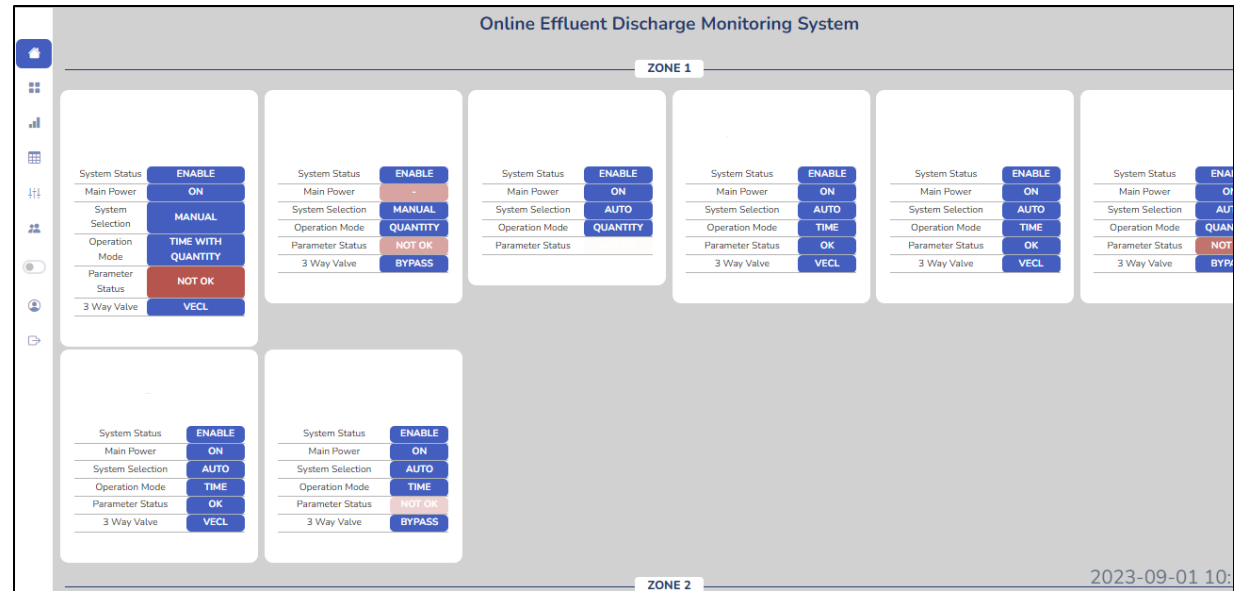
[View More](#) [View More](#) [View More](#) [View More](#) [View More](#) [View More](#) [View More](#) [View More](#)

[Acknowledge](#)

Search:

| Created Time | Type | Severity | Status | Message |
|---------------------|-------------------------------------|---------------|------------------------|--|
| 2023-09-01 10:43:05 | ThreeWay Valve VECL | Indeterminate | Active Unacknowledged | 3 way valve position - discharge to VECL |
| 2023-08-31 11:29:04 | ThreeWay Valve Bypass | Indeterminate | Cleared Unacknowledged | 3 way valve position - Return to Treatment |
| 2023-08-31 10:43:05 | ThreeWay Valve VECL | Indeterminate | Cleared Unacknowledged | 3 way valve position - discharge to VECL |
| 2023-08-31 00:38:05 | ThreeWay Valve Bypass | Indeterminate | Cleared Unacknowledged | 3 way valve position - Return to Treatment |
| 2023-08-31 00:37:05 | IOT Valve Error | Indeterminate | Cleared Unacknowledged | IOT valve error |
| 2023-08-31 00:37:05 | ThreeWay Valve Error | Indeterminate | Cleared Unacknowledged | 3 way valve error |
| 2023-08-31 00:37:05 | ThreeWay Valve Bypass | Indeterminate | Cleared Unacknowledged | 3 way valve position - Return to Treatment |
| 2023-08-30 10:43:05 | ThreeWay Valve VECL | Indeterminate | Cleared Unacknowledged | 3 way valve position - discharge to VECL |
| 2023-08-30 00:46:37 | Monitoring Parameter Not OK Offline | Indeterminate | Active Unacknowledged | Out of range Effluent parameter detected |
| 2023-08-30 00:46:37 | Auto Selected Offline | Indeterminate | Active Unacknowledged | Auto selected Feedback detected |

Show entries Showing 1 to 10 of 53 entries



Mayur Online Window Last 1 hour

Search:

| Date/Time | Fluoride (m%) | Totalizer (m%) | Current Day Discharge (m%) | COD (mg/l) | BOD (mg/l) | TSS (mg/l) | PH (pH) | Colour (Ppm) | NH3N (ppm) | Temperature (°C) |
|---------------------|---------------|----------------|----------------------------|------------|------------|------------|---------|--------------|------------|------------------|
| 2023-09-01 11:02:05 | 32.50 | 32891.00 | 0.00 | 13.69 | 4.50 | 8.88 | 7.88 | 27.88 | 0.00 | 32.00 |
| 2023-09-01 11:03:04 | 32.50 | 32891.00 | 0.00 | 13.69 | 4.50 | 8.88 | 7.88 | 27.88 | 0.00 | 32.00 |
| 2023-09-01 11:05:05 | 32.50 | 32891.00 | 0.00 | 13.69 | 4.50 | 8.88 | 7.88 | 27.88 | 0.00 | 32.00 |
| 2023-09-01 11:06:05 | 32.50 | 32891.00 | 0.00 | 13.69 | 4.50 | 8.88 | 7.88 | 27.88 | 0.00 | 32.00 |
| 2023-09-01 10:59:05 | 32.50 | 32891.00 | 0.00 | 13.69 | 4.50 | 8.88 | 7.88 | 27.88 | 0.00 | 32.00 |
| 2023-09-01 10:58:05 | 32.50 | 32891.00 | 0.00 | 13.69 | 4.50 | 8.88 | 7.88 | 27.88 | 0.00 | 32.00 |
| 2023-09-01 10:57:05 | 26.00 | 32891.00 | 0.00 | 13.69 | 4.50 | 9.44 | 7.91 | 25.63 | 0.00 | 31.88 |
| 2023-09-01 10:56:04 | 26.00 | 32891.00 | 0.00 | 13.69 | 4.50 | 9.44 | 7.91 | 25.63 | 0.00 | 31.88 |
| 2023-09-01 10:55:05 | 26.00 | 32891.00 | 0.00 | 13.69 | 4.50 | 9.44 | 7.91 | 25.63 | 0.00 | 31.88 |
| 2023-09-01 10:54:05 | 26.00 | 32891.00 | 0.00 | 13.69 | 4.50 | 9.44 | 7.91 | 25.63 | 0.00 | 31.88 |

Show 10 entries Showing 1 to 10 of 61 entries

Panel Data History Time Window Last 1 hour

Search:

| Date/Time | System Status | Parameter Status | 3 Way Valve | IOT Value | System Mode | Operation Mode | Main Power | Server Connectivity |
|---------------------|---------------|------------------|-------------|-----------|-------------|----------------|------------|---------------------|
| 2023-09-01 11:02:05 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |
| 2023-09-01 11:03:04 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |
| 2023-09-01 11:05:05 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |
| 2023-09-01 11:06:05 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |
| 2023-09-01 10:59:05 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |
| 2023-09-01 10:58:05 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |
| 2023-09-01 10:57:05 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |
| 2023-09-01 10:56:04 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |
| 2023-09-01 10:55:05 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |
| 2023-09-01 10:54:05 | ENABLE | OK | VECL | VECL | AUTO | TIME | ON | ONLINE |

Show 10 entries Showing 1 to 10 of 61 entries

Search:

| Name | Email | Customers | Roles | Edit | Details | Status |
|--------|-------|-----------|-------|------|---------|---------|
| shreya | | | | | | Enable |
| shreya | | | | | | Enable |
| jay | | | | | | Disable |

User Roles

all read write

Decline Change Apply Change

Search:

| User Name | User Type | Event | Status | Details |
|-----------|-----------|------------|---------|---------|
| shreya | admin | User Login | success | ... |
| shreya | admin | User Login | success | ... |

Show 1 to 2 of 2 entries

User Profile Last Login 2023-09-01 10:53:49

User Name:

Email:

Customer:

Change Password

Current Password:

New Password:

Confirm New Password:

Change Password

User Timeline Last 1 Day

2023-09-01 10:54:12 User Login

Mayur Online

Effluent Alarm Control

| Parameter | Fluoride (m%) | COD (mg/l) | BOD (mg/l) | TSS (mg/l) | PH (pH) | Color (Ppm) | NH3N (ppm) | Temperature (°C) |
|--------------|---------------|------------|------------|------------|---------|-------------|------------|------------------|
| Status | Healthy | Healthy | Healthy | Healthy | Healthy | Healthy | Low | Healthy |
| LL Alarm | 0 | 0 | 0 | 0 | 6.5 | 0 | 0 | 0 |
| L Alarm | 0 | 0 | 0 | 0 | 6.5 | 0 | 0 | 0 |
| H Alarm | 250 | 250 | 100 | 100 | 8.5 | 100 | 50 | 100 |
| HH Alarm | 250 | 250 | 100 | 100 | 8.5 | 100 | 50 | 100 |
| L Band Alarm | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| H Band Alarm | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OnlineBypass | Online | Online | Online | Online | Online | Online | Online | Online |

Control Logs

Time Window Custom From 2023-06-01 09:08:11 To 2023-09-01 11:08:11

Search:

| Date Time | User name | Parameter | Old value | New value | Message | Status |
|----------------------------|-----------|-----------|-----------|-----------|---------|--------|
| No data available in table | | | | | | |

Show 10 entries Showing 0 to 0 of 0 entries

Textile machine production data monitoring

Textile Machinery Monitoring **SMEW**

Machine No - BMT AW Export

| | No of Doffs | Production (KG) | No of Breaks | Spindle UP Time |
|---------------|-------------|-----------------|--------------|-----------------|
| Current Shift | 312.00 | 557.15 | 461.00 | 9253.00 |
| Last Shift | 701.00 | 1621.50 | 3269.00 | 91001.00 |
| Last 24 hours | 1013.00 | 2178.65 | 3782.00 | 109484.00 |
| Last Week | 10081.00 | 6647.87 | 56156.00 | 1141329.00 |

Machine No - 2 Export

| | No of Doffs | Production (KG) | No of Breaks | Spindle UP Time |
|---------------|-------------|-----------------|--------------|-----------------|
| Current Shift | | | | |
| Last Shift | | | | |
| Last 24 hours | | | | |
| Last Week | | | | |

Machine No - 3 Export

| | No of Doffs | Production (KG) | No of Breaks | Spindle UP Time |
|---------------|-------------|-----------------|--------------|-----------------|
| Current Shift | | | | |
| Last Shift | | | | |
| Last 24 hours | | | | |
| Last Week | | | | |

Machine No - 4 Export

| | No of Doffs | Production (KG) | No of Breaks | Spindle UP Time |
|---------------|-------------|-----------------|--------------|-----------------|
| Current Shift | | | | |
| Last Shift | | | | |
| Last 24 hours | | | | |
| Last Week | | | | |

Shift wise over all production in kg, from no of doff, set length

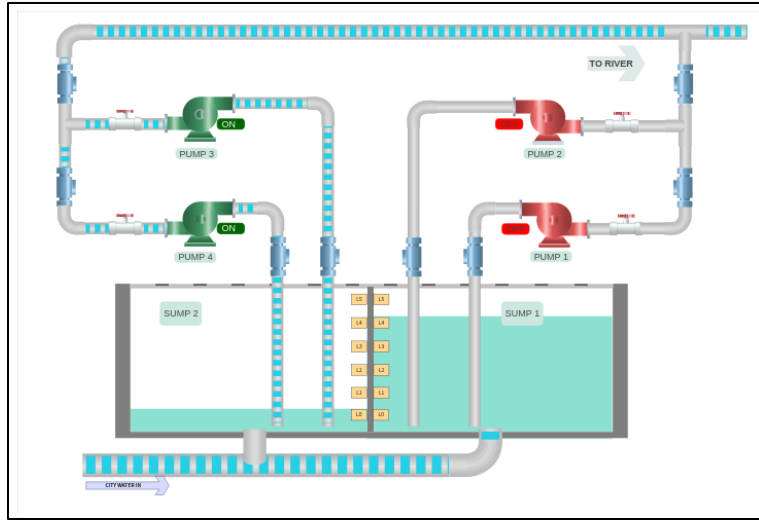
Spindle wise production calculation for given date time range

TimeWindow: 1 hour

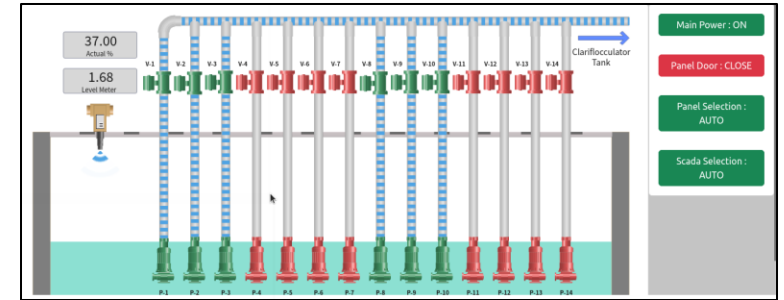
All
 01
 02
 03
 04
 05
 06
 07
 08
 09
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48

Generate

| Spindle | No of Doffs | Production (KG) | No of Breaks | Spindle UP Time |
|------------|-------------|-----------------|--------------|-----------------|
| Spindle_02 | 10 | 19 | 07 | 18 |
| Spindle_15 | 12 | 10 | 1 | 0 |
| Spindle_18 | 12 | 19 | 13 | 07 |
| Spindle_29 | 09 | 15 | 11 | 13 |



| Auto Manual Mode | | Pump Limit | | |
|---|--------------------------|------------|------------|-----------|
| Auto <input type="radio"/> Manual <input type="radio"/> | | Pump No. | High limit | Low limit |
| Valve Pump Start/Stop | | 1 | 45 | 30 |
| Pump No. | Start/Stop | 2 | 47 | 32 |
| 1 | <input type="checkbox"/> | 3 | 50 | 34 |
| 2 | <input type="checkbox"/> | 4 | 51 | 42 |
| 3 | <input type="checkbox"/> | 5 | 52 | 36 |
| 4 | <input type="checkbox"/> | 6 | 40 | 37 |
| 5 | <input type="checkbox"/> | 7 | 45 | 30 |
| 6 | <input type="checkbox"/> | 8 | 47 | 32 |
| 7 | <input type="checkbox"/> | 9 | 50 | 34 |
| 8 | <input type="checkbox"/> | 10 | 51 | 35 |
| 9 | <input type="checkbox"/> | 11 | 52 | 45 |
| 10 | <input type="checkbox"/> | 12 | 53 | 37 |
| 11 | <input type="checkbox"/> | 13 | 0 | 0 |
| 12 | <input type="checkbox"/> | 14 | 0 | 0 |
| 13 | <input type="checkbox"/> | | | |
| 14 | <input type="checkbox"/> | | | |



Pumping station monitoring and Control

- Remotely monitor various pumps and valves for city pumping stations
- Provide control options to set manual / auto operation
- In manual mode provide options to turn on / off pumps and valves and for auto mode provide options to set limits

Firmware Projects

IoT Gateway firmware

Industrial protocol
converter

Data logger

Remote PLC / HMI /
IPC / Field instrument
connection for debug
and firmware update

Battery management
System for
automobiles

Protocol converters