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**Sustainable
Tech for
Mother Earth**
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About TECH Flow

TECH flow is a real-time online flow monitoring software developed by Aksapada Consultancy Pvt. Ltd, which has years of experience in the field of digital technology. A software made with environmental ethics in mind, this will help a lot of industries monitor their water pollution. TECH Flow's monitoring system is strong and provides error free data from the water bodies to your main computers.

TECH Flow is a highly user friendly software that works with any brand of flow meters and communication output. The various reports help industries take decisions appropriately at the right time. The software can also be used for CETP (Central Effluent Treatment Plant), where the data is being gathered from different locations using RF / GPRS

And here's what you can connect TECH Flow with

- Water Flow Meter
- Steam Flow Meter
- Energy Meter
- pH Meter
- TDS Meter
- Differential Pressure
- DO Meter
- Tank Level Sensor
- Energy Meters
- Temperature Meter

MODULES

Uploading Modules:

Uploading all the meter readings in user-specified duration. Like 1-60 minutes interval using

Dual Uploading Method

(Data will be stored locally when Internet is non-available)

Web server Module - Two layers of privileges are available

- Industrial Level
- PCB Level

Report Module

- Meter readings: Every Minute / 15 Mins / 30 Mins / Hourly / Daily
- Meter Totalizer: Every Minute / 15 Mins / 30 Mins / Hourly / Daily
- Recovery Percentage –Stage wise: Every Minute / 15 Mins / 30 Mins / Hourly / Daily

Trend Graph for Every Stage in Ro, All the above reports can be taken with user-specified Interval also. The reports can be export to MS-Excel for further calculations)

Security Module Admin Rights

To be able to manage, add / edit meters. Defining the meters for statutory visibility. Meters can be grouped & ordered for reporting purpose.

User History Log

Admin can view the usages by any third person who logged in our software and their activities. This feature will give more security to the admin to prevent unauthorized access.

Here are some features you will be able to use when you get TECH Flow

- Marker Facility
Identifying non-functional meters by showing a separate color coding.
- SMS Alerts
SMS alerts about non-functional flow meters (User specified mobile numbers, multiple mobile numbers can be added)
- Mail Alerts
E-Mails on non-functional flow meters (User specified e-mail address, multiple IDs can be added)
- Groupings
 - This is a Dynamic Module. User themselves can create meter groups for comparing RO Performances.
 - Renaming and creation of meters.
 - Meter position and orders can be defined by user.
- The software is enclosed within a centralized cloud server
- The following alert system shows the quality of water: green = safe; yellow = moderately polluted; red = highly polluted
- The TNPCB will be able to monitor the water quality and will be immediately notified in real time if water quality reaches red
- The license can be brought by companies and can be activated using a login id
- The alerts will also be sent to all the parties involved, thus keeping everyone in the loop.



Real Time Monitoring



8 years of experience in Monitoring	End to End Solutions	Data Analytics for
<ul style="list-style-type: none"> ■ Water ■ Energy ■ Steam ■ Air ■ Machine 	<ul style="list-style-type: none"> ■ Sensors ■ Instrumentation ■ Communication ■ Data Acquisition ■ Automation ■ Data Analytics 	<ul style="list-style-type: none"> ■ Water Conservation ■ Performance Assesment ■ Compliance Assesment



Authorised Server & Client Software vendor for Tamil Nadu Pollution Control Board

 <p>Dedicated & Experienced Staff for Requirement Study, Design, Product Selection Implementation & Service Support</p>	 <p>Technically Qualified & Experienced Staff to understand and execute Automation Projects.</p>	 <p>Experienced Software Developers for development of Robust Monitoring & Data Analytical solutions</p>
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TECHFLOW



SENSORS

FLOW



Mechanical



Ultrasonic



EMFM



Steam

LEVEL TRANSMITTER



Hydrostatic



Ultrasonic



Float Guided



Capacitance Type

TEMPERATURE



Low Temperature



Medium Temperature



Head Mount Transmitter

PRESSURE



Normal Application



Normal Application



Higene Application

ANALYTICAL



pH



BOD, COD, TSS



TDS



Dissolved Oxygen

INSTRUMENTATION

FLOW



Krohne



Frehnig



PERFECT

UNIVERSAL INDICATORS



Modular Design



Multiple Sizes

Input - Analog / Temp | Output - Relay / mA / RS 485

ANALYTICAL



pH



TDS



BOD, COD, TSS

MULTICHANNEL



Jumo



Thermo



Multichannel analog

LARGE DISPLAY



ENERGY



Schneider



Elmeasure

+ any Make & Model

CT COIL



Tape Insulated

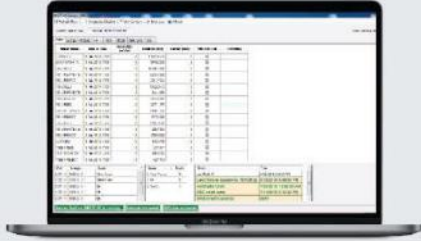


Resin Encapsulated



Polycarbonate Encapsulated

CLOUD SERVER



COMPUTER DATA ACQUISITION










IN - HOUSE SERVER

GSM / Wifi

DATA LOGGER P-BOX



DIRECT LAN CONNECTION

RS485 to USB 	HART to RS485 	RS485 on LAN 
Field Sensors		Multiport RS485 on LAN 
Instrumentation		
Electrical Equipments		RS485 on RF 
Machineries		RS485 on GSM 
Human Machine Interface		
8 channel Analog to RS485 	Multichannel Analog / Digital to RS485 on LAN 	RS485 on LORA 



DATA LOGGER P-BOX
frameless single board PC (Wifi / LAN)

TECH CLOUD SERVER

DATA LOGGER EMBEDDED

GSM / Wifi - Powered / Battery / Both



Simple Automation

Pressure Feed System

Set Point Pressure Pump ON/OFF (or) Speed Control



Advantages

- Reduced Power Consumption
- Quick Delivery of Water
- Multiple Pump handling with Auto Selection

DO Based Blower Control

Set Point DO against Blower/Aerator ON/OFF



Advantages

- Reduced Power Consumption
- Reduced DO will be maintained.

pH Dosing System

Set Point pH against Acid Dosing Pump ON/OFF or Speed Control (VDF)



Advantages

- Required pH will be maintained in Tank or Line

TDS Based Condensate Flow Control

Set Point pH against Acid Dosing Pump ON/OFF or Speed Control (VDF)



Advantages

- Use Low TDS water for Boiler/Processing
- Recirculate High TDS Water
- Acid adulteration of stored water

Complex Automation



Ultra Filtration/Micro Filtration Automation

Fully Automated 24X7 for Filtration, Backwash, Cleaning and Rinse

Advantages

- No need for man power
- Membrane life will increase twice than manual operation
- Monitor and Control from HMI/Local PC, Auto/Manual operations
- Real time data logging of operations and local/cloud storage
- Performance, Utilization, Efficiency Analysis, Reporting on Cloud



Evaporator Automation

Fully Automated for Evaporation and Acid Cleaning

- No need for skilled man power
- Evaporation based feed control: Best Steam Efficiency
- Avoid Unwanted Recycling time: Best Power Efficiency
- Monitor and Control from HMI/Local PC for critical conditions
- Real time data logging of operations and local/cloud storage
- Performance, Utilization, Efficiency Analysis, Reporting on Cloud



ATFD Automation

Fully Automated Running for Production and Flushing

- No need for skilled man power
- Evaporation based feed control: Best Steam Efficiency
- Always powder output: No slurry output
- Monitor and Control from HMI/Local PC for critical conditions
- Real time data logging of operations and local/cloud storage
- Performance, Utilization, Efficiency Analysis, Reporting on Cloud

Contact us

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