

AI Cloud Platform for Monitoring WTP/STP/ water networks



By Crest IT Consulting Pvt.Ltd.



How is your WTP/ STP working?

Is your water network, delivering the required capacity?

Where are the leakages in the network?

Are my Pumps working efficiently?

✓ If you have any such questions ...

Our AI Cloud Platform “*RineTrack*” is the right solution.

R	I	N	E	
T	R	A	C	K

Advantages of AI Cloud-based monitoring Platform

Reduce O&M cost by Timely Action

- Track multiple WTP/STPs/Projects from a central console, anytime from anywhere using *“Rine Track”*.

Data available at your laptop

- On the PLC data – add “simple algorithm” to get meaningful measurable outcomes.

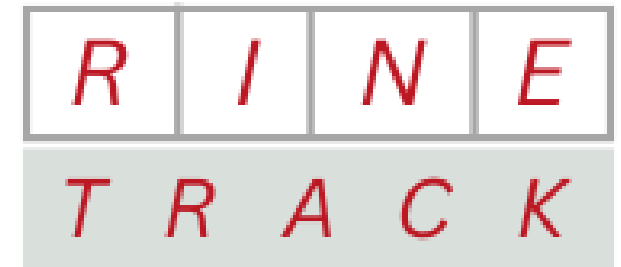
- All historic data is stored for data analytics/ trends.

- Transparent and correct data captured directly from sensor/ equipment.

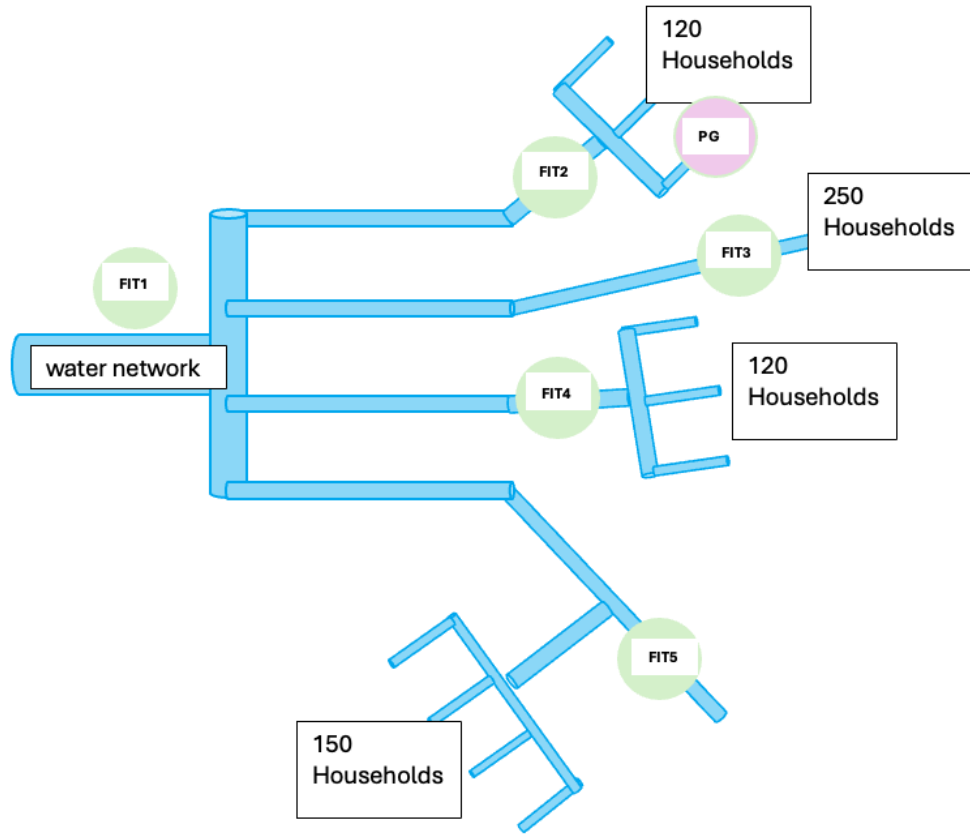
- Data visibility to supervisor, improves operator’s attention and builds in efficiency

- Add “AI” to get instantaneous answers to your queries or get automated AI generated reports.

- No manual intervention required.



Monitor your Water network



Network leakage

- FIT1 = Inflow
- $FIT2 + FIT3 + FIT4 + FIT5 = X$ (Combined flow)
- Compare X with FIT1 readings
- if $X = FIT1$, then No leakage
- if X Less than FIT1 by 0.2% - No Leakage

LPCD computed

- $FIT2/120 * n$
- $FIT3/250 * n$
- $FIT4/120 * n$
- $FIT5/150 * n$

Usage Covered

- FIT1 = Inflow
- $FIT2 + FIT3 + FIT4 + FIT5 = X$ (Combined flow)
- Compare X with FIT1 readings to compute Actual v/s Design

Monitor Pressure

- PG at different locations

Engineering and
Plant Data at one
central place

Digitization
of all
important
plant data

Data uploaded on the portal at a central location

- Data sheets, O&M manuals, drawings, spare part list, vendor contact details.
- Compliance documents like Bonds, Consent to Establish, Operate, PCB letters, statutory licenses, Insurance documents, Third party inspection reports.
- Stocks at the plant required for O&M (Lubricants, chlorine, spare parts, and chemicals)
- Daily, Monthly Lab reports
- Compliance Reports Automatically Generated

Key performance data is available at the Engineer's Desk

- Continuous monitoring of all critical online sensors, Flow, Temperature, Pressure
- Pumps, Blower, Equipment run time,
- Power consumption for the plant / pumps from MCC (KWH/day)
- Upload Inlet/Outlet performance parameters as per daily Lab test or via Online sensors

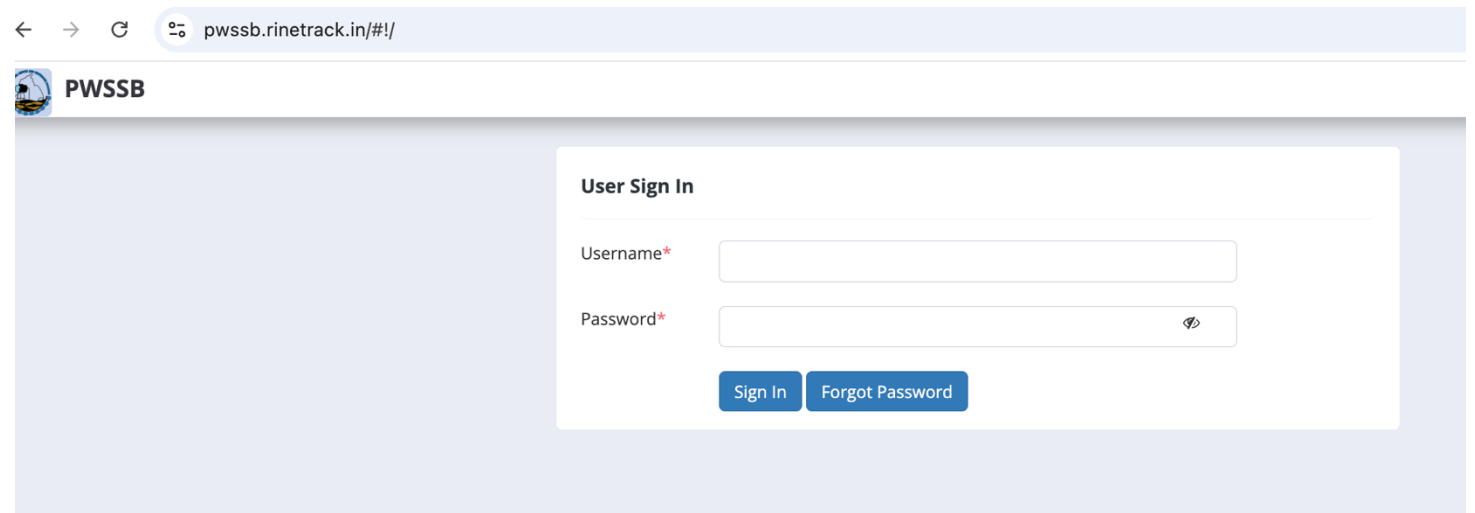
- Data is captured from the PLC
- Compared with design condition
- Automatically display's any discrepancy.

Pre-requisite

- Plant/ equipment & sensors must be connected on the PLC with mysql data base
- Internet must be available on user's laptop/desktop and at the plant location

Login your AI Cloud Platform?

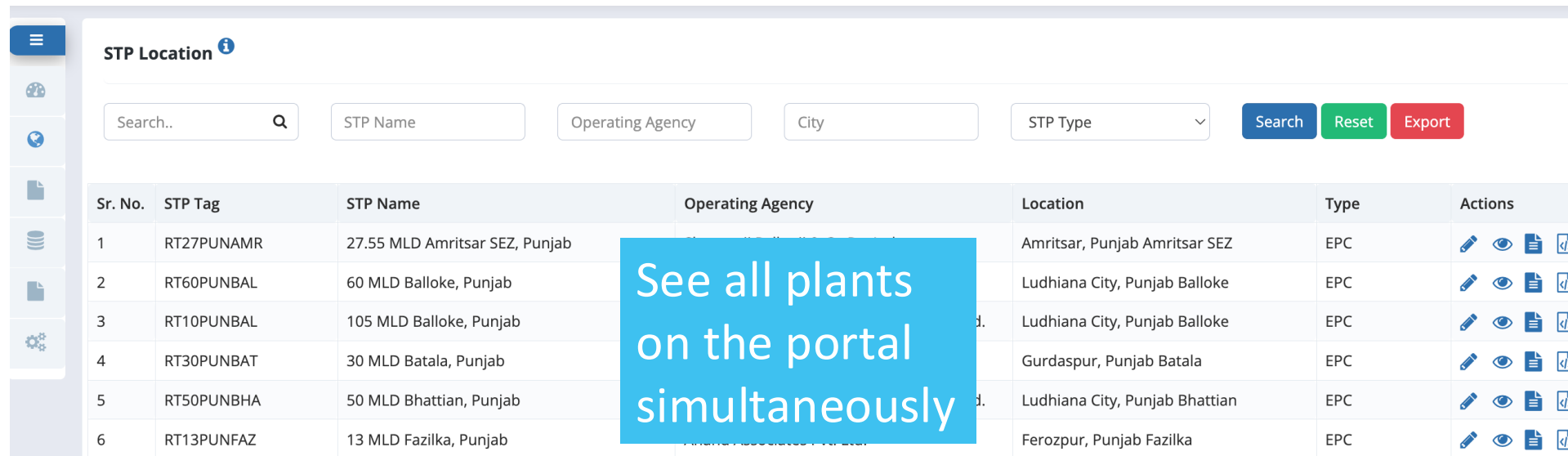
- Enter URL, and “Sign in” - anytime and anywhere.
- All you need is an internet connection



The screenshot shows a web browser window with the address bar containing 'pwssb.rinetrack.in/#/'. The page title is 'PWSSB'. The main content area features a 'User Sign In' form with the following elements:

- User Sign In** (Section Header)
- Username*** (Label) followed by an empty text input field.
- Password*** (Label) followed by an empty password input field with a visibility toggle icon.
- Sign In** (Button)
- Forgot Password** (Button)

Central Console- Multiple Projects in one location



STP Location

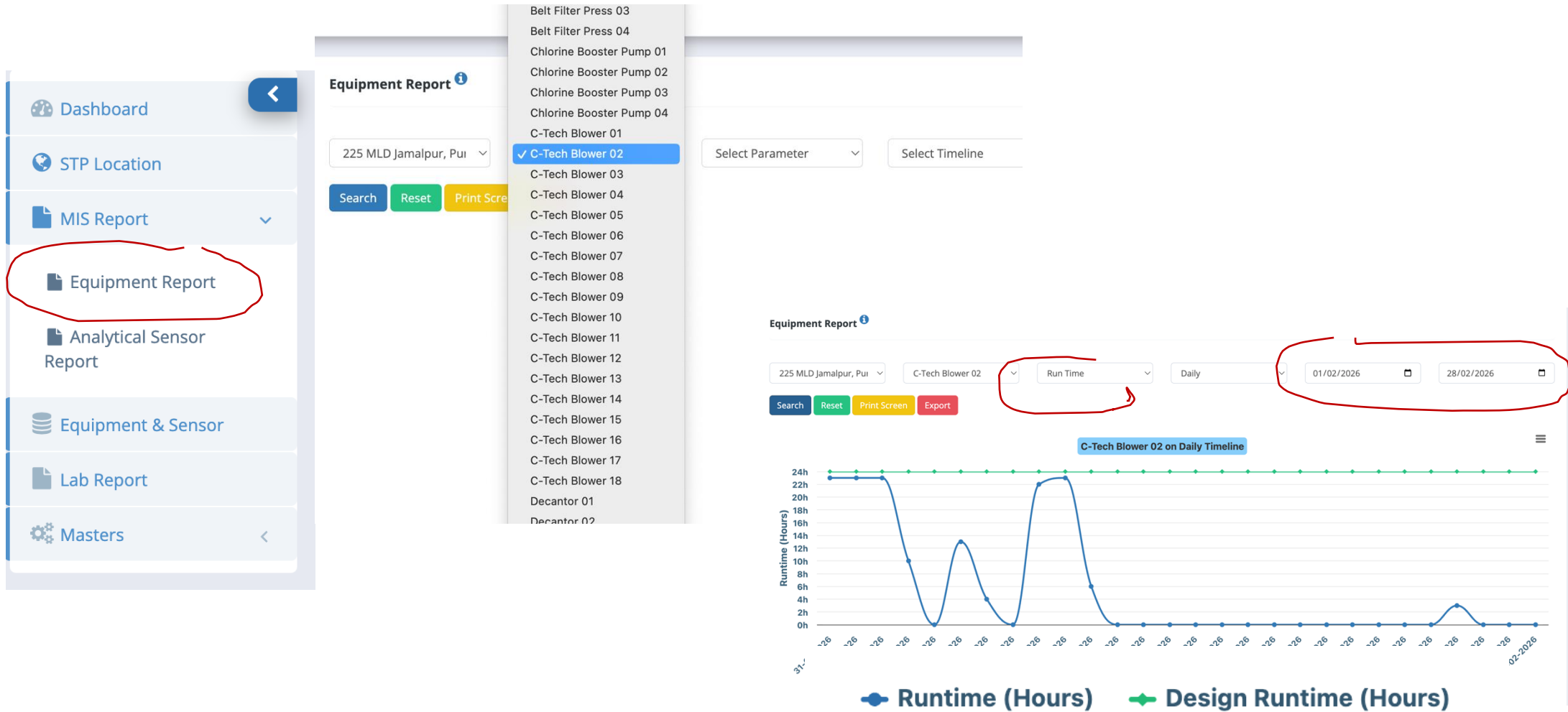
Search..

Sr. No.	STP Tag	STP Name	Operating Agency	Location	Type	Actions
1	RT27PUNAMR	27.55 MLD Amritsar SEZ, Punjab		Amritsar, Punjab Amritsar SEZ	EPC	
2	RT60PUNBAL	60 MLD Balloke, Punjab		Ludhiana City, Punjab Balloke	EPC	
3	RT10PUNBAL	105 MLD Balloke, Punjab		Ludhiana City, Punjab Balloke	EPC	
4	RT30PUNBAT	30 MLD Batala, Punjab		Gurdaspur, Punjab Batala	EPC	
5	RT50PUNBHA	50 MLD Bhattian, Punjab		Ludhiana City, Punjab Bhattian	EPC	
6	RT13PUNFAZ	13 MLD Fazilka, Punjab		Ferozpur, Punjab Fazilka	EPC	

See all plants on the portal simultaneously

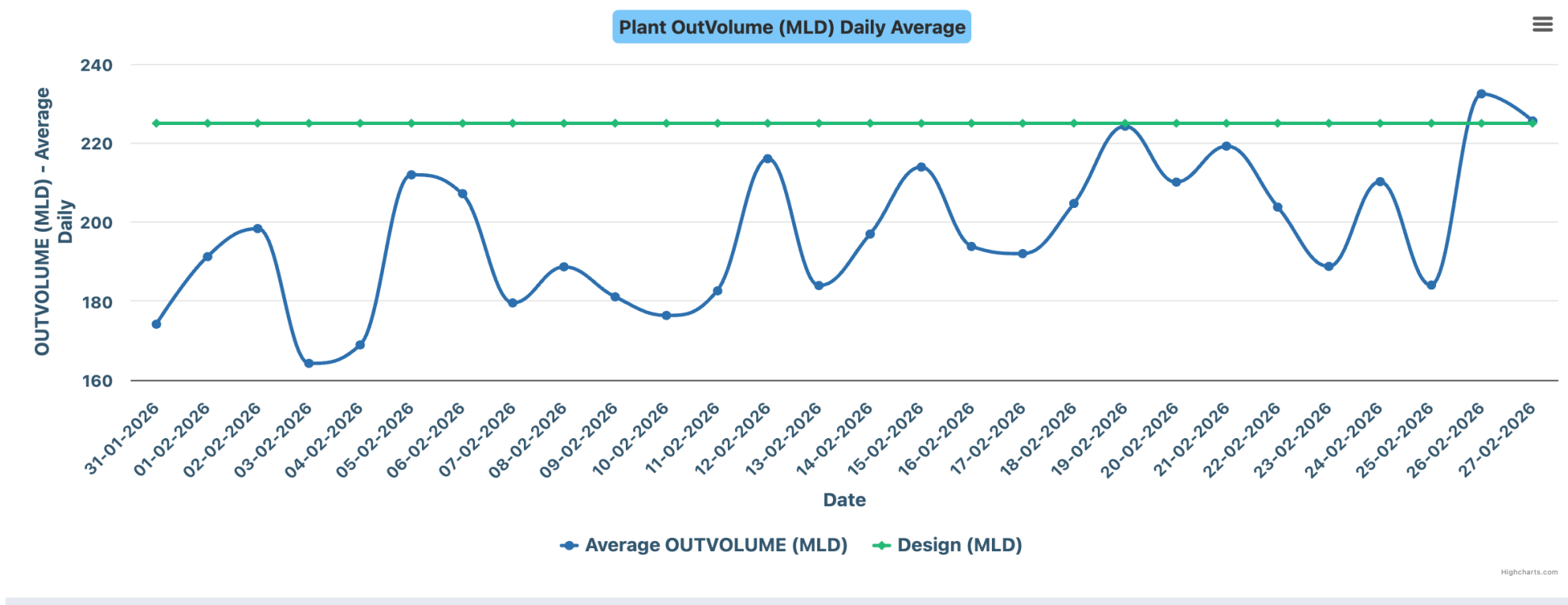
Select Equipment and Check their "Run time" Actual v/s Design

Automatic capture of real time RUN TIME for the selected period



Check Actual daily flow v/s Design flow - flow sensor

Analytical Sensor Report ⓘ

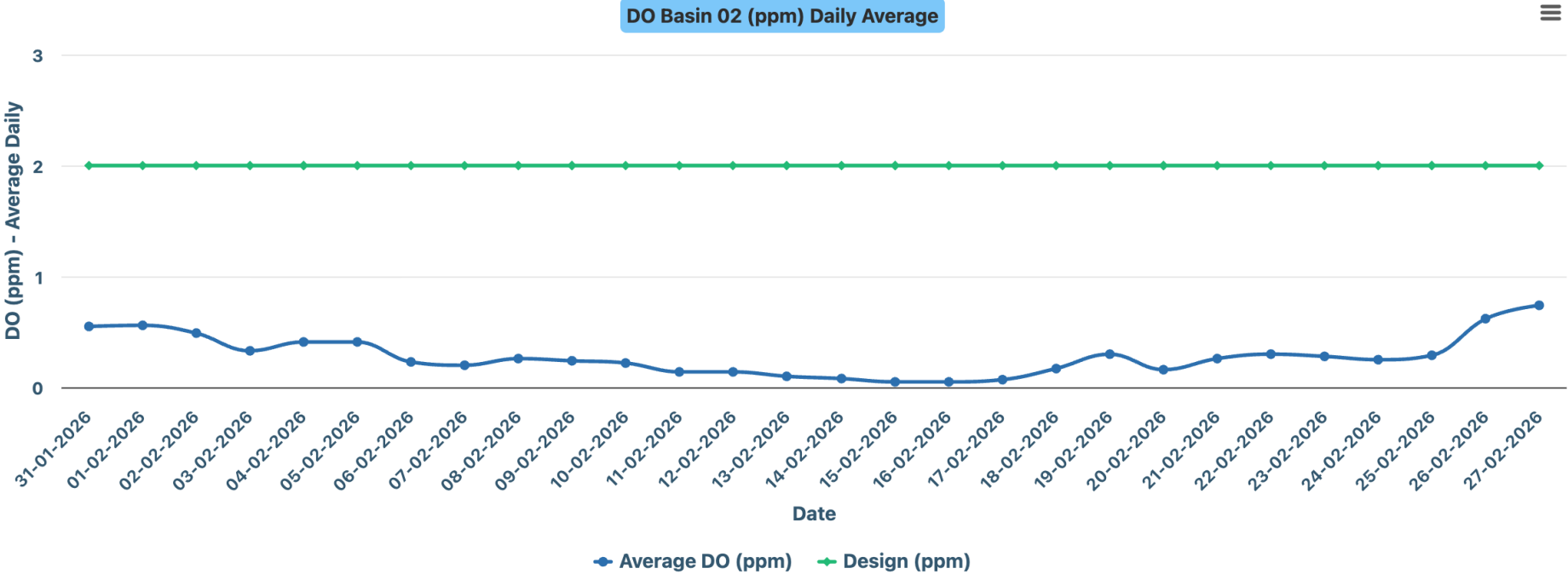


Check your Sensor data “Actual v/s Design” to see if performance at par with design

Below is DO sensor data compared to design setting

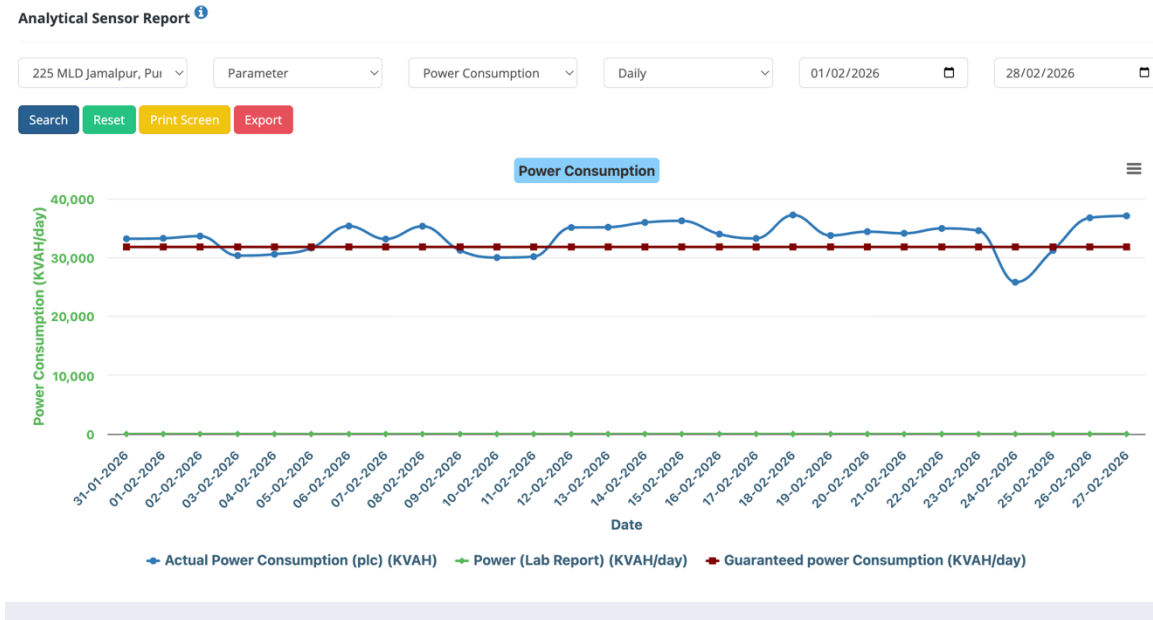
Analytical Sensor Report ?

225 MLD Jamalpur, Pui Sensor DO Basin 02 Daily 01/02/2026 28/02/2026

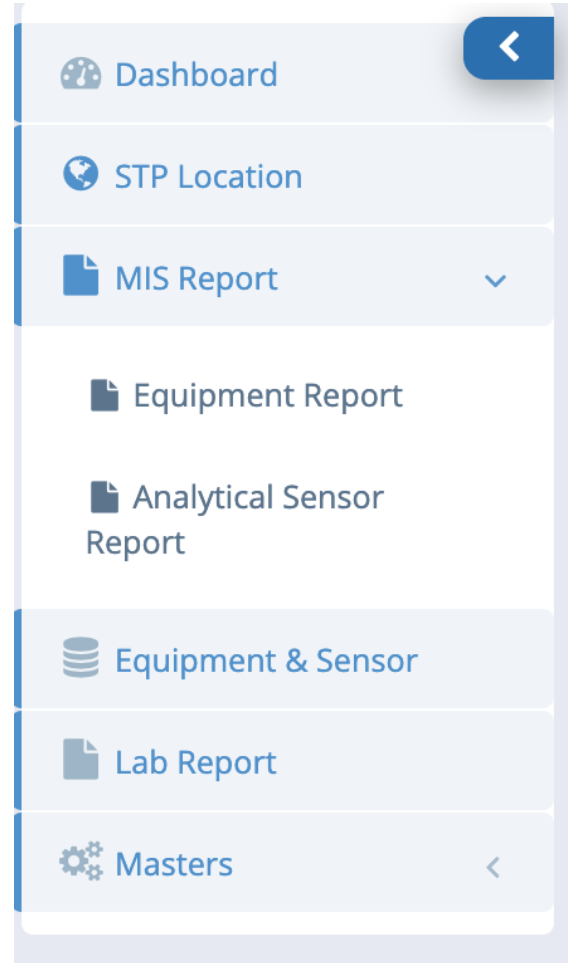


Guaranteed Power v/s Actual Power

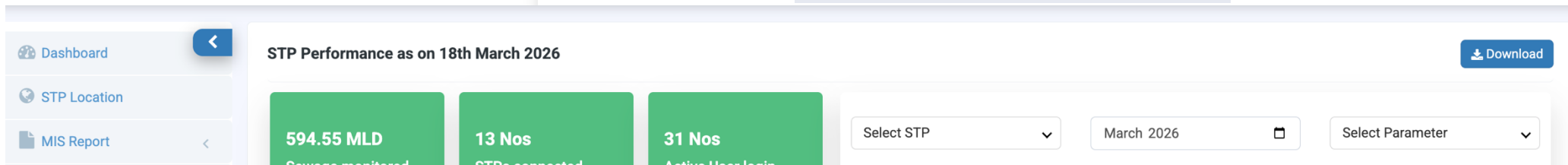
Know your Power efficiency and save money



Customize your portal as per requirement



R I N E
T R A C K



Submit Daily Lab report on the portal itself

- Dashboard
- STP Location
- MIS Report
- Equipment Report
- Analytical Sensor Report
- Equipment & Sensor
- Lab Report**
- Masters

EDIT LAB REPORT (18/03/2026) Back

Select STP*

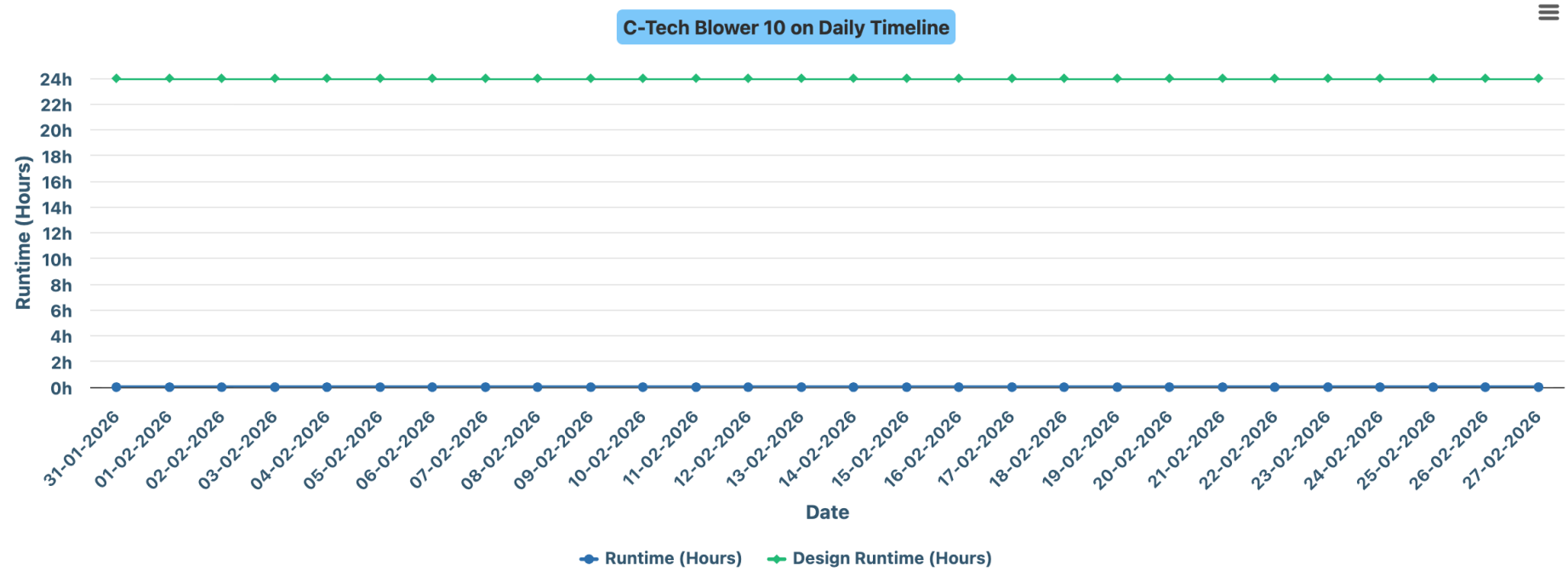
Sr No.	Parameters	UOM	Inlet	Outlet	Outlet External Agency Lab Report
1. Laboratory Analysis:					
	pH	-	<input type="text"/>	<input type="text"/>	<input type="text"/>
	BOD	ppm	<input type="text"/>	<input type="text"/>	<input type="text"/>
	COD	ppm	<input type="text"/>	<input type="text"/>	<input type="text"/>
	TSS	ppm	<input type="text"/>	<input type="text"/>	<input type="text"/>
	TN	ppm	<input type="text"/>	<input type="text"/>	<input type="text"/>
	NH3-N (as N)	ppm	<input type="text"/>	<input type="text"/>	<input type="text"/>
	TP	ppm	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Power Consumption	KWH/day	<input type="text"/>		
3. Chemicals:					
	DWPE	kg/day	<input type="text"/>		
	Chlorine	kg/day	<input type="text"/>		
			<input type="button" value="Submit"/>		

Check Blower – Not running for the month

Equipment Report ?

225 MLD Jamalpur, Pui ▼
 C-Tech Blower 10 ▼
 Run Time ▼
 Daily ▼
 01/02/2026 📅
 28/02/2026 📅

Search
Reset
Print Screen
Export



Highcharts.com

Digitization of all important plant data

Click on the View button to see the document

Document Upload

Subject / Title	Date	Document	Remark	Action
1. Tender Document				
NIT	07/12/2025	NIT Jamalpur & Balloke.pdf	--	
2. Basic engineering document				
C-Tech BEP	07/12/2025	C-Tech BEP.pdf	--	
Overall BEP	07/12/2025	Overall BEP-20240420-WA0072.pdf	--	
Sludge Calculations	10/01/2026	Jamalpr sludge.pdf	--	
3. O&M Manuals				
C-Tech EQM	29/12/2025	C-Tech EQM.pdf	--	
Turbo Blowers	26/12/2025	TURBO O&M Manual.pdf	--	
Gen O&M Manual STPs	26/12/2025	Govt Gen O&M Manual STPs.pdf	--	
Process O&M	29/12/2025	Process_O&M_Ver0.pdf	--	
O&M_FDF	29/12/2025	O&M Manual_FDF.pdf	--	
4. Statutory Documents				
Bond & Power Guarantee	29/12/2025	Bond & Guarantee.pdf	--	
5. Monthly Lab reports				
Nov 2025	08/01/2026	Nov-2025.pdf	--	
Dec 2025	09/01/2026	Dec 2025 - Jamalpur.pdf	--	

Keep all engineering documents and data on the cloud portal for easy access

Provide User Access Control for Security

Change Access Control

User Access Control Back

User Name: Aparna Kapoor

Search Plant Name: Search Reset

Modules		STP Location			Lab Report		
Sr No	STP Location	View	Edit	Delete	View	Edit	Delete
1	27.55 MLD Amritsar SEZ, Punjab	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	60 MLD Balloke, Punjab	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	105 MLD Balloke, Punjab	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	30 MLD Batala, Punjab	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	50 MLD Bhattian, Punjab	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Provide plant location wise or/ and submodule wise access control to your users

Get Automatic AI Generated reports

Get automatic monthly and daily ETP performance reports

Composite Report ⓘ

STP Location: 225 MLD Jamalpur, Punjab

2026 February Search Reset Pri

Flow (MLD) Design / Actual 225 / 219.6

LABORATORY ANALYSIS

S.No.	Parameters (as per)	Design Data	
		Input (ppm)	Output (ppm)
1	pH	6.5 - 9	6.5 - 8.5
2	BOD (ppm)	250	10
3	COD (ppm)	500	50
4	TSS (ppm)	500	10
5	NH3N (ppm)		5
6	TN (ppm)	45	10
7	TP (ppm)	7	1
8	Fecal coliform (MPN/100ml)	10 exp (7)	230
9	TSS (FDF)	10	5

EQUIPMENT RUNTIME

S.No.	Equipments	Design Data	Actual Data
1	Belt Filter Press 01	22	0.0
2	Belt Filter Press 02	22	14.6
3	Belt Filter Press 03	22	11.6
4	Belt Filter Press 04	22	4.3
5	C-Tech Blower 01	24	13.2

Conclusions- AI Cloud Platform



Monitor multiple plants from a central console



Monitor from your laptops, anytime anywhere



Actual data is always compared with design data to give clarity on performance



Operational deficiencies are captured well in time and bridged quickly



Remote supervision can be provided to operator



Improves compliance in a timely manner and reduce penalties



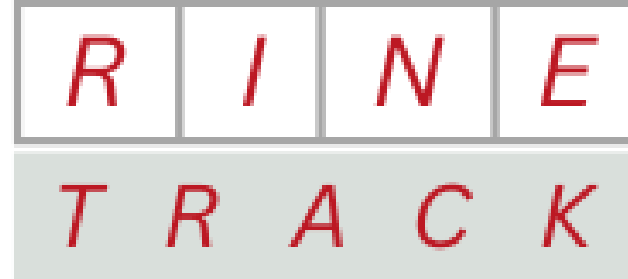
O&M costs are reduced by timely intervention and proper guidance to operator



Vendors can be made accountable based on actual logged data

Adopt AI Cloud Platform

Unlock efficiency



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Thank you

