



Jaaji Technologies
Sophistication with Simplicity



Connected Worker **Gives the Digital Transformation** **A BIG LEAP**





- A Chemical Engineer and Postgraduate in General Management with 26+ year of Experience
- Worked with NFCL, Wipro, Dell, Accenture and Jaaji Technologies
- Experienced in Operations, Management Consulting, BPO, Account Management & Strategy etc.
- Worked in change management, Technology led transformation, process optimisation, operating model design etc.

<https://www.linkedin.com/in/sunil-kumar-5495485/>

Digital transformation needs to address multiple concerns

- Are the critical parameters within defined limits?
- Have I entered all the logs as per schedule?
- Have I captured the important comments?
- Is the shift hand over done smooth?
- Are the instructions being followed?
- How do I know what happened in the last 2-week offs



- Were there any safety related incidents?
- Are the right permits issued?
- Are the safety check lists being followed?



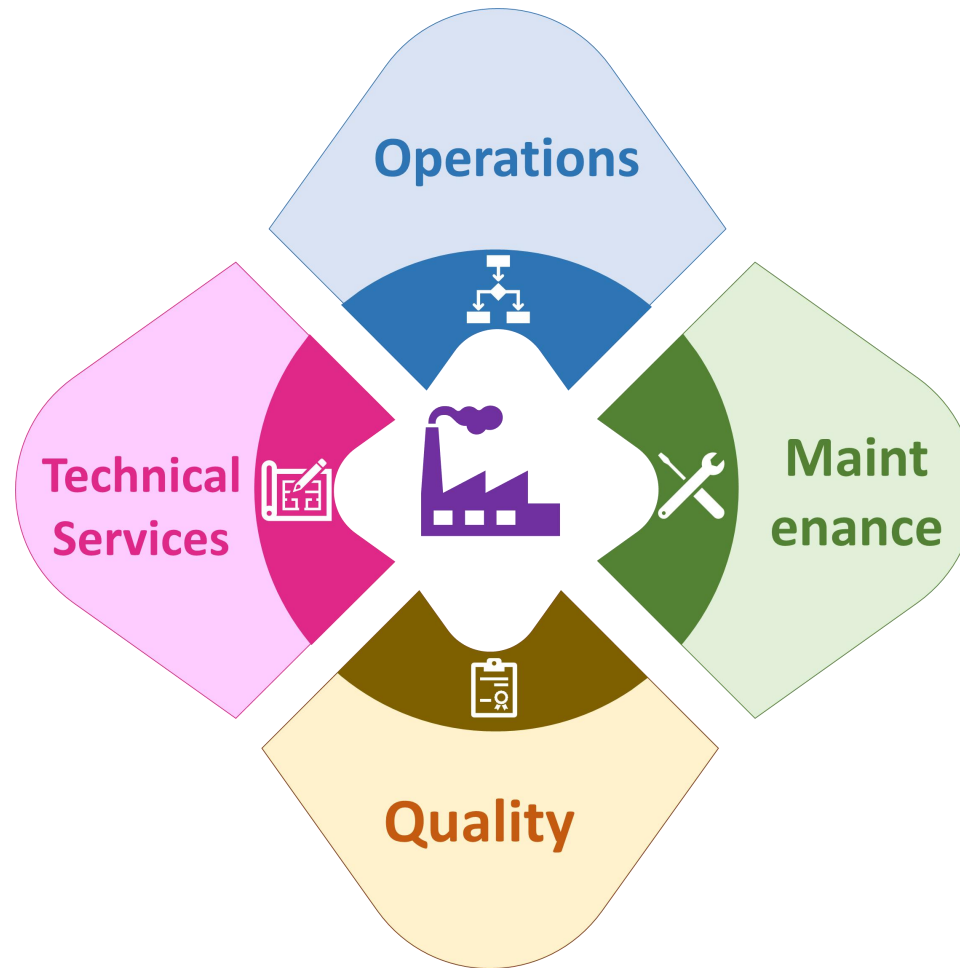
- Are the critical assets taken up for maintenance?
- Is the PM schedule being followed?
- What is my overall OEE?
- Are my equipment running optimally?
- What can I do to ensure higher availability?
- Can I improve the MTBF?
- How do I get complete history of an asset?



- Is the sampling SOP being adhered to?
- How many samples showed positive results?
- Are the quality results communicated to operations?
- Are the analyzers healthy?
- Do we have enough stock of the consumables?



How do we address these expectations with right answers AND IN TIME?



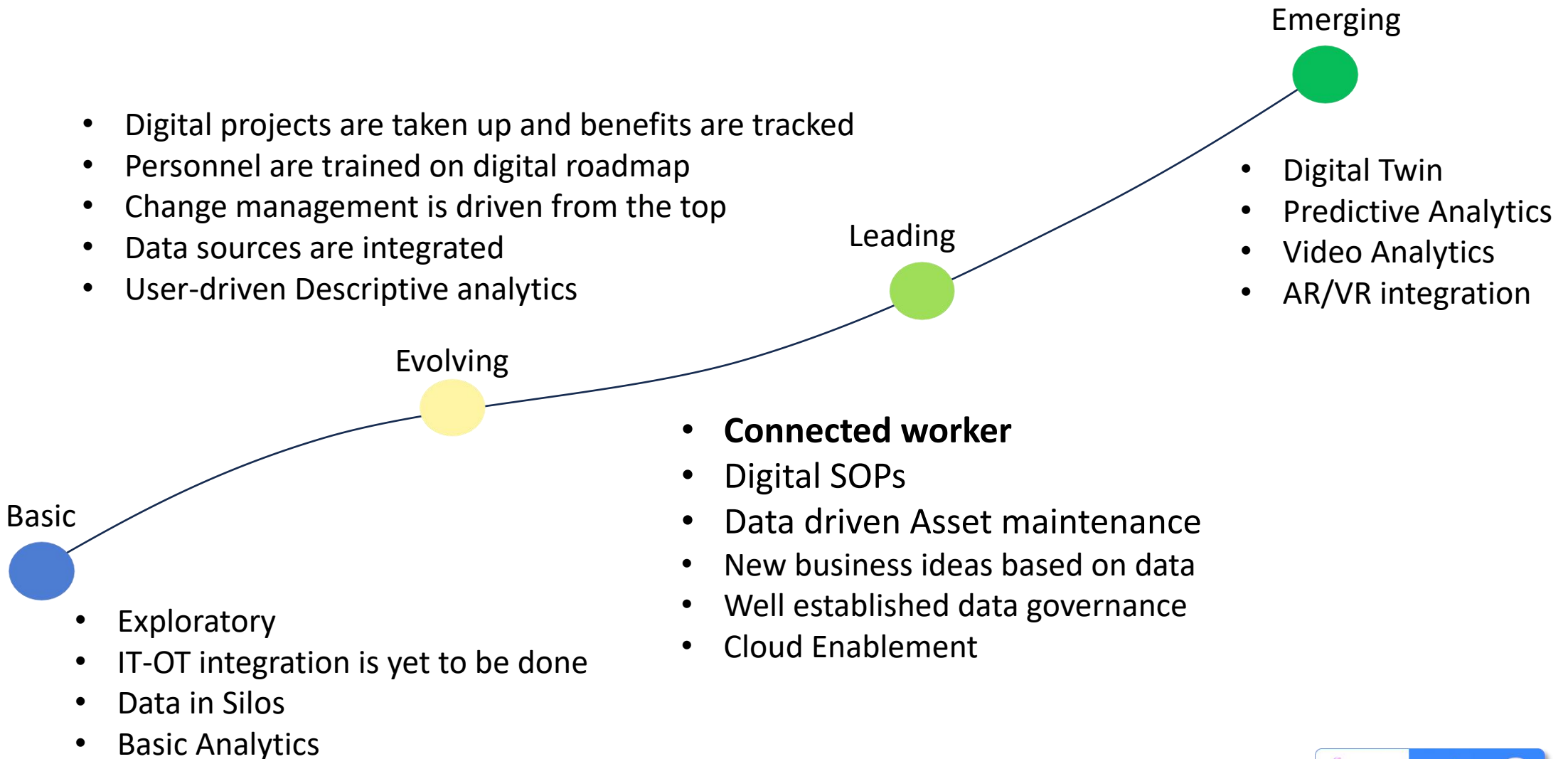
Safety interlock management
Digital Operations Logbook

Digital Maintenance Check-Lists
Asset Performance 360

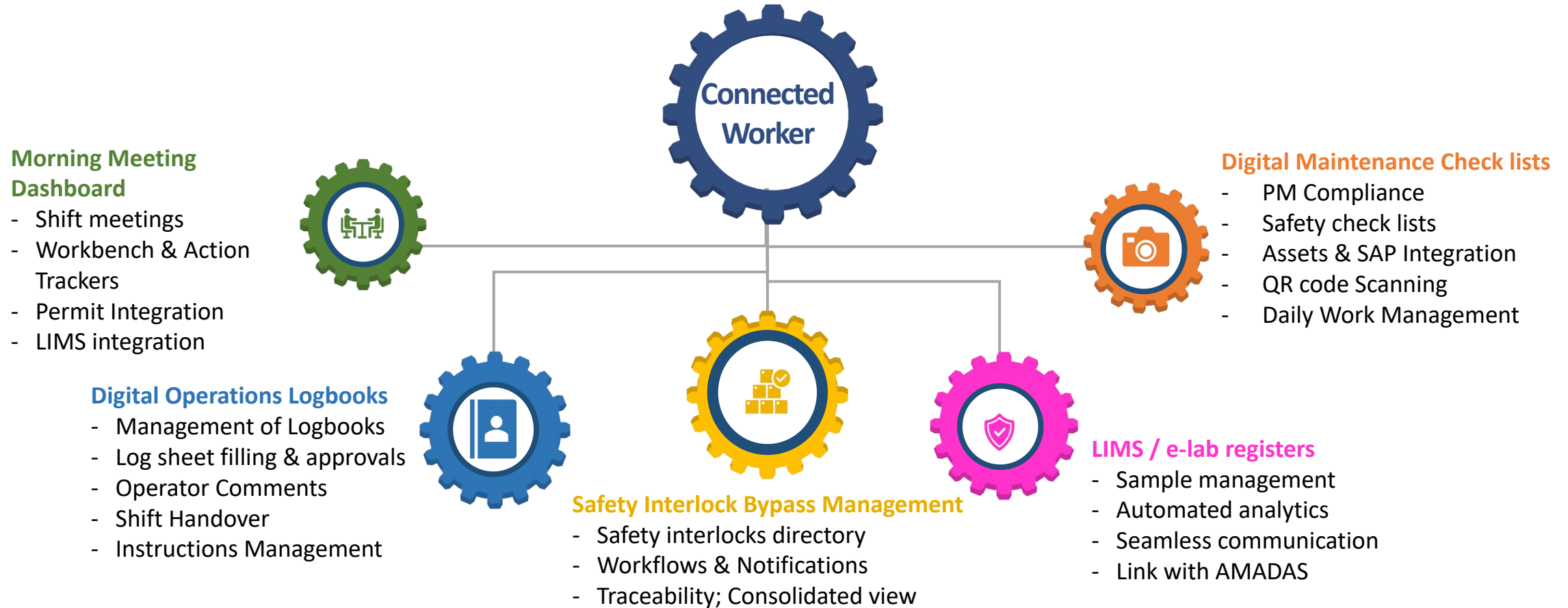
Laboratory Information System
E-Log register

Performance Management System
Energy Management System
Data Analytics, Reports & Anomaly Notifications
Native Mobile Apps

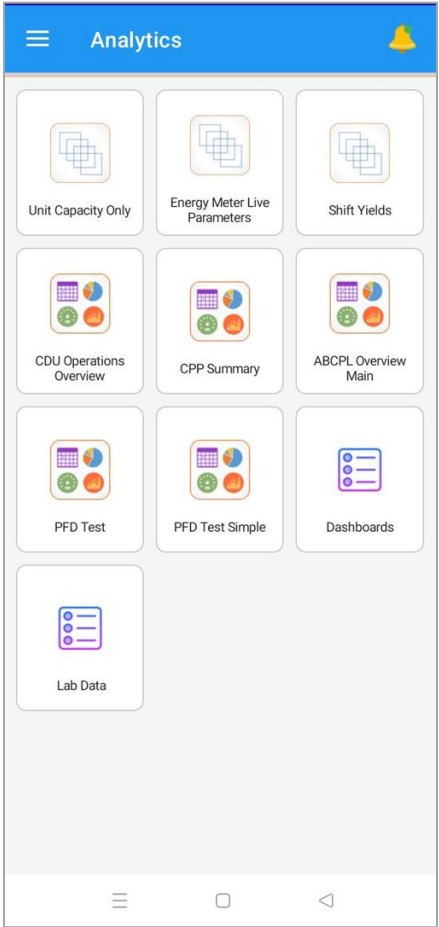
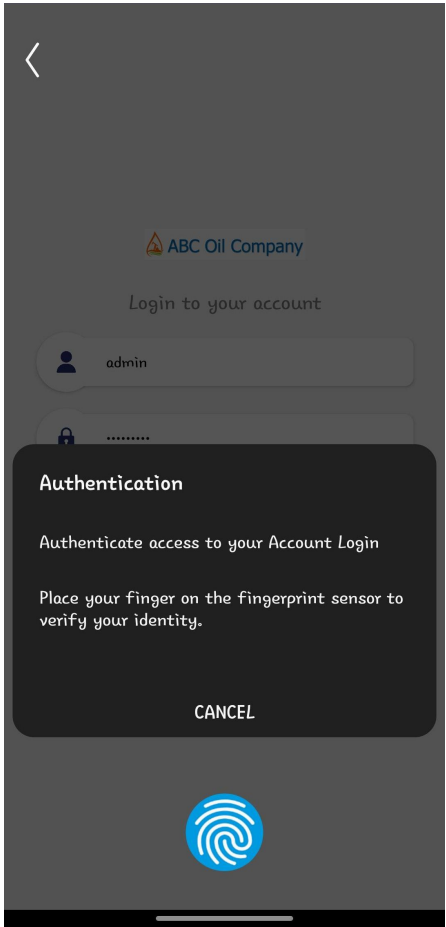
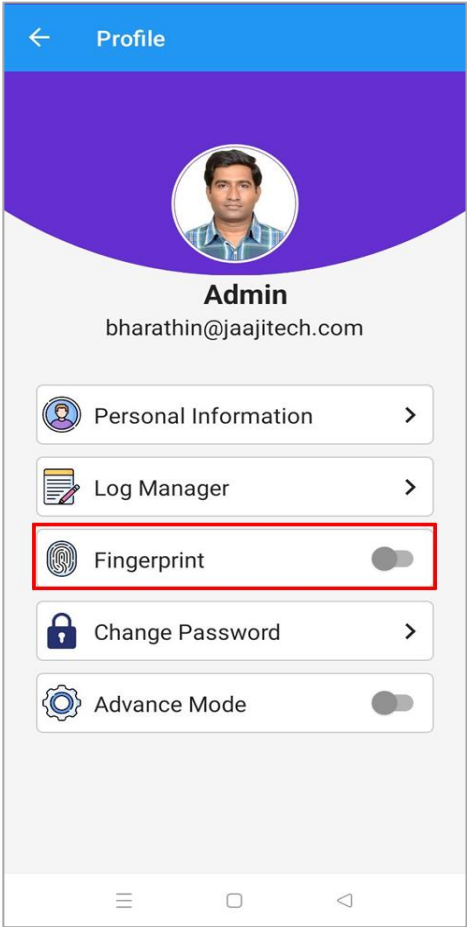
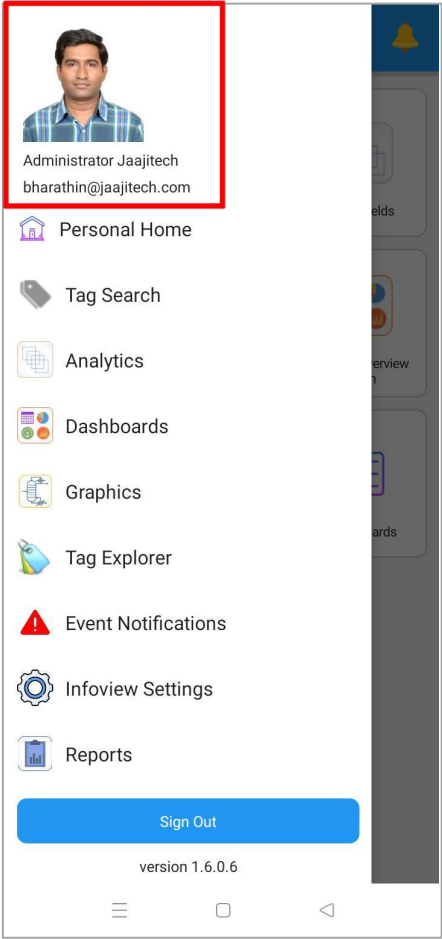
Digital Maturity Index takes a LEAP once you CONNECT THE WORKER




An emerging concept – Connected Worker



Login with Biometric



Operations Logbook Login



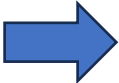
Secure Login

☒ Remember me?

Sign In

Edit Domain

1.6.0.6 (Sep 28, 2023)
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Logbook Summ...

SubStation1
Electrical
FieldLog
Vizag Plant

Primary Brine
Section
Vizag Plant

Lab Sample Data
Vizag Plant

Lab Analysis
Report
Vizag Plant

HCL Synthesis
Section Panel
Vizag Plant

Demo
Logbook_CRU
Vizag Plant

Brine Section
PanelLog
Vizag Plant

Brine Section
Field Logbook
Vizag Plant

AHP Shift
In-charge Log
Sheet
Mumbai Plant

ABC Power Limi...
Hyderabad Plant

Test Oct 10
ABC Oil Company



Hyderabad Plant - ABC Power Limited

Sampletest

Equipments	17-Oct-23 07:00	17-Oct-23 10:00
ID Fan-A IS	200.00	
ID Fan-A SB	100.00	100.00
ID Fan-A NA	2002.00	2002.00
ID Fan-A PTW NO	150.00	
LOP A B 1 IS	477.00	
LOP A/B 1 NA	25.00	
LOP A/B 1 PTW NO	4485.00	
C Fan A/B IS	555.00	
C Fan A/B SB	55.00	
C Fan-A/B NA	558.00	
C Fan A/B PTW NO	36.00	
FD Fan-A IS	44.00	



LogSheet

Vizag Plant - Demo Logbook_CRU

Date
29-Apr-2021

Status
Issued

Preparation Person
Administrator
Jaajitech

Area InCharge/HOD

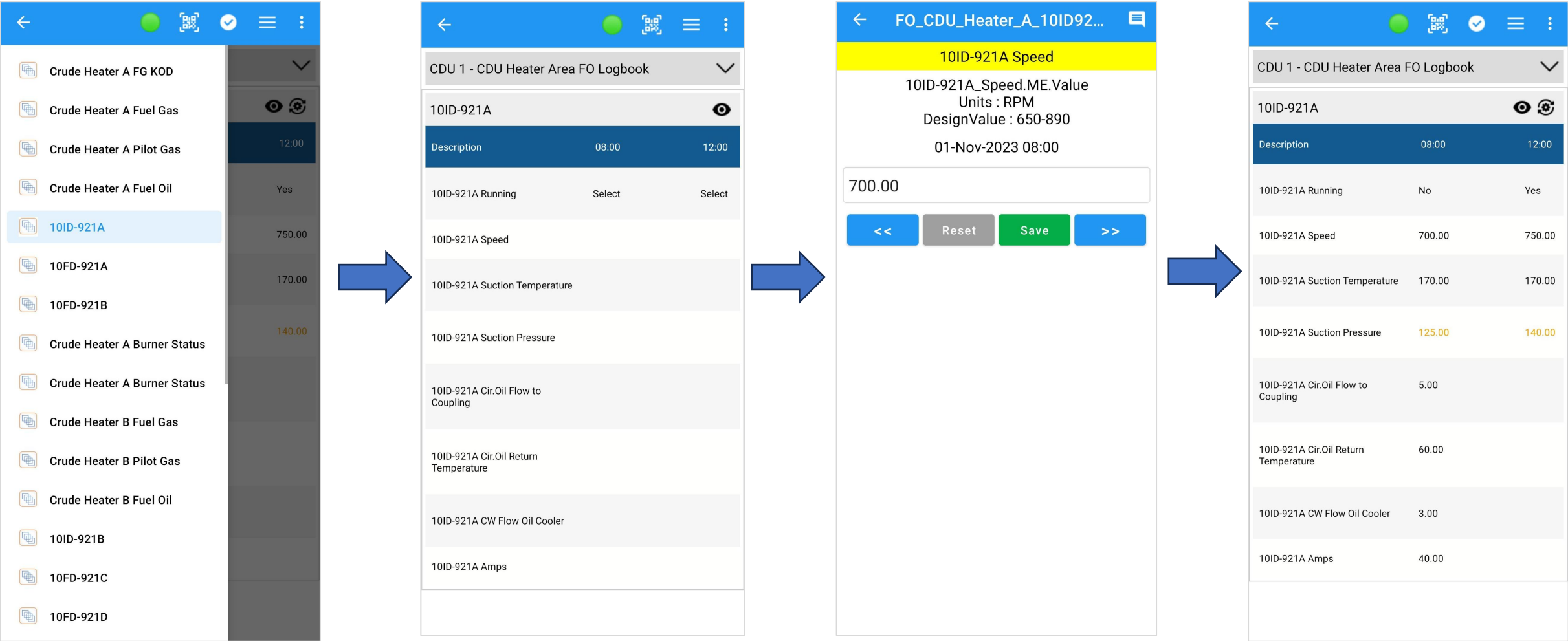
Shift
A (06:00 To 14:00)

ApprovalStatus
None

Approving Person
Operations Manager

HandOverStatus
None

Operations Logbook Data Entry



Operations Logbook –Shift Handover

←

CDU Area FO Logbook

Shift Handover Summary

StartTime	GivenTime
02-Nov-2023 16:17	02-Nov-2023 16:13
AcceptedTime	Given By
Given To	Accepted By
Reviewed Logsheet	Given Comments
YES	
Accepted Comments	Incharge
Inch.Given Comments	Inch.Accept Comments

Vyas Patel

Enter SHO Comments

Admin Jaajitech

☐ Show incharge comments

Complete Handover

Provide Shift Handover

←

CDU Area FO Logbook

Shift Handover Summary

StartTime	GivenTime
02-Nov-2023 16:17	02-Nov-2023 16:19
AcceptedTime	Given By
	Vyas Patel
Given To	Accepted By
Vyas Patel	
Reviewed Logsheet	Given Comments
YES	
Accepted Comments	Incharge
	Admin Jaajitech
Inch.Given Comments	Inch.Accept Comments

Enter SHO Comments

☐ Show incharge Accept comments

Accept Handover

Accept Handover

←

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Shift Handover - Log Sheets


Area	Logbook
CDU 1	VDU Area FO Logbook
SHO Start Time	SHO Given Time
02-Nov-2023 16:12	02-Nov-2023 16:12
Logsheet Date	Shift
01-Nov-2023	B Shift (14:00:00 To 22:00:00)
Operator	Incharge
Vyas Patel	
LogSheetStatus	HandOverStatus
Completed	Initialized
Area	Logbook
CDU 1	VDU Area FO Logbook
SHO Start Time	SHO Given Time
02-Nov-2023 00:24	02-Nov-2023 00:26
Logsheet Date	Shift
01-Nov-2023	A Shift (06:00:00 To 14:00:00)
Operator	Incharge
Vyas Patel	
LogSheetStatus	HandOverStatus
Completed	Accepted
Area	Logbook
CDU 1	VDU Area FO Logbook
SHO Start Time	SHO Given Time
04-Jul-2023 09:36	04-Jul-2023 09:36
Logsheet Date	Shift
04-Jul-2023	A Shift (06:00:00 To 14:00:00)
Operator	Incharge
Elamparithi Velliangiri	
LogSheetStatus	HandOverStatus
Closed	None
Area	Logbook
CDU 1	VDU Area FO Logbook
SHO Start Time	SHO Given Time
04-Jul-2023 04:36	04-Jul-2023 04:37
Logsheet Date	Shift
03-Jul-2023	C Shift (22:00:00 To 06:00:00)
Operator	Incharge
Megh shyam	

Shift Handover Summary

Maintenance Checklist

Step 1: Login with QR Code

← Scan Any Asset QR



CLICK HERE TO SCAN QR CODE

Asset:4_ABC oil Company

11-Mar-24 3:08 PM

PROCEED TO CHECK LISTS

PROCEED TO ASSET DETAILS

Step 2: All Checklists

Activity List	
All 6	<div><div>Scheduled</div><div>1</div></div>
Delayed 4	<div><div>Completed</div><div>1</div></div>
Cancelled 0	<div><div>InProg</div><div>0</div></div>
<div><div><div>Activity Name cleaning</div><div>Asset ABC oil Company</div></div><div><div>Start Time 12-Mar-2024 13:25</div><div>EndTime 12-Mar-2024 13:25</div></div><div><div>Activity Status Completed</div><div>Activity Type type1</div></div></div>	
<div><div><div>Activity Name Daily LLF</div><div>Asset SF-053</div></div><div><div>Start Time 12-Mar-2024 00:00</div><div>EndTime 12-Mar-2024 00:01</div></div><div><div>Activity Status Scheduled</div><div>Activity Type Preventive Maintenance</div></div></div>	
<div><div><div>Activity Name cleaning</div><div>Asset ABC oil Company</div></div><div><div>Start Time 11-Mar-2024 13:25</div><div>EndTime 11-Mar-2024 13:25</div></div><div><div>Activity Status Scheduled</div><div>Activity Type type1</div></div></div>	
<div><div><div>Activity Name Daily LLF</div><div>Asset SF-053</div></div><div><div>Start Time 11-Mar-2024 00:00</div><div>EndTime 11-Mar-2024 00:01</div></div><div><div>Activity Status Scheduled</div><div>Activity Type Preventive Maintenance</div></div></div>	
<div><div><div>Activity Name cleaning</div><div>Asset ABC oil Company</div></div></div>	

Step 3: Open Check List

←

P-036A - PM_CP_Checklist

Infoviews

SET DEFAULT VALUE

SAVE

PM_CP_Checklist

Check bearing condition

Unit
11-Mar-2024 00:00

NotOK

To enter comment click here...

Check coupling and key condition

Unit
11-Mar-2024 00:00

NA

To enter comment click here...

LLF_sheet

Unit
11-Mar-2024 00:00

NA

To enter comment click here...

Check alignment of pump

Unit
11-Mar-2024 00:00

NotOK

To enter comment click here...

Check condition of impeller housing

Unit
11-Mar-2024 00:00

0.00

To enter comment click here...

Check impeller for wear

Unit
11-Mar-2024 00:00

0.00

To enter comment click here...

Check lubrication condition

Unit
11-Mar-2024 00:00

0.00

To enter comment click here...

Step 4: Enter Status/ Comments

← PM_CP_Checklist

Check bearing condition

L5433_A21663.Brg_Cond.Value
DesignValue : 0110
11-Mar-2024 00:00

NotOK

Enter Comment

<<

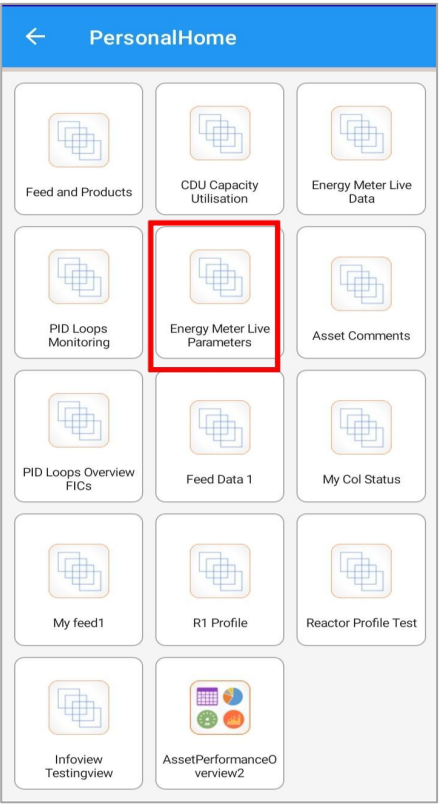
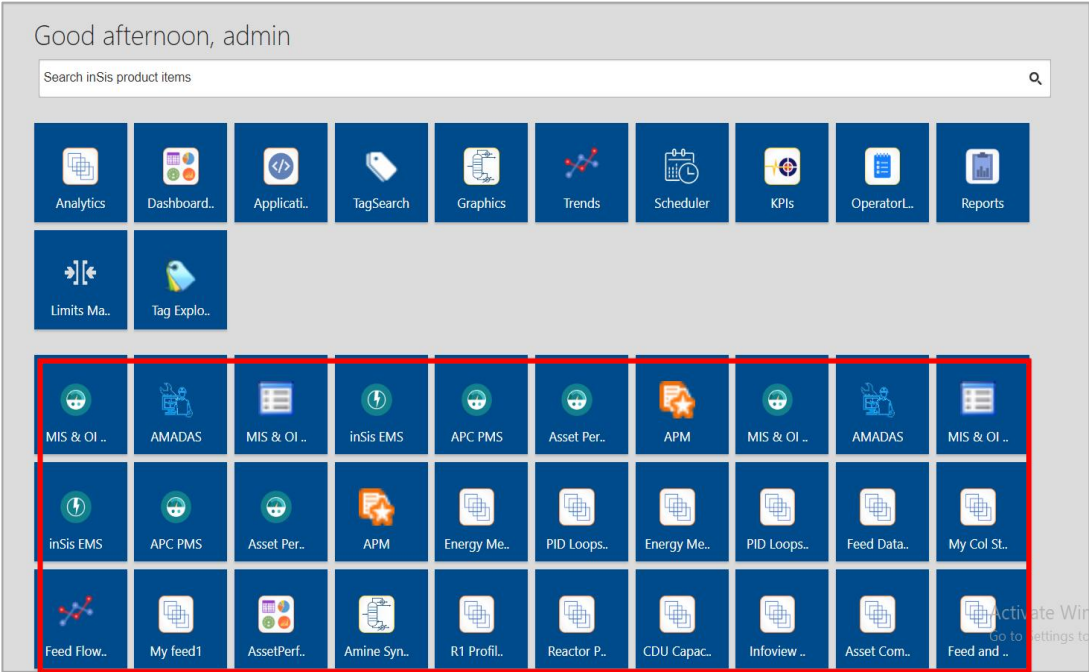
Reset

Save

>>

Personal Home

Customized personal dashboards and views



Energy Meter Live Param...

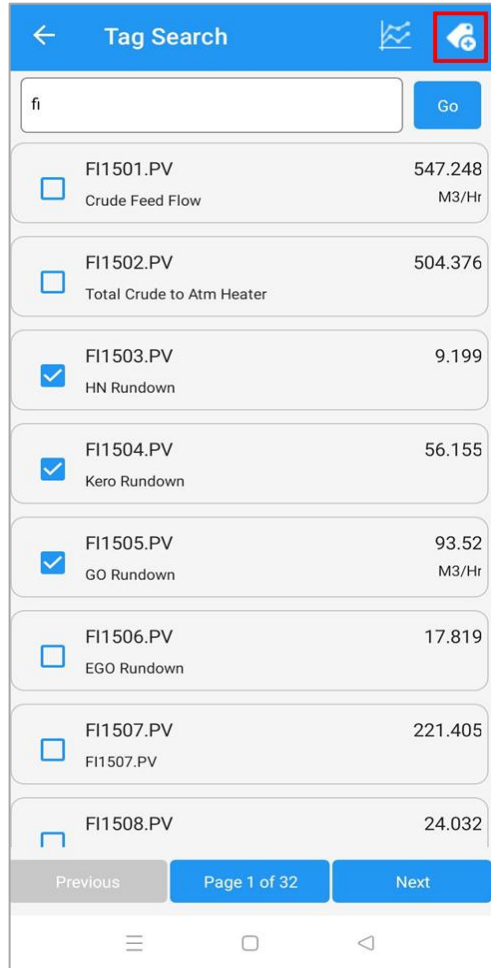
Gen2 | Generator2 | Generator3 | Pump1 |

<< < 1H 8H 1D 1W > >>

Tags	14-Feb-24 18:18	Average
ActivePower	44.07	44.07
ActiveEnergyExp	52033.95	52033.95
ApparentPower	58.61	58.61
Current_Bph	1278.58	1278.58
Current_Rph	1338.72	1338.72
Current_Yph	1267.85	1267.84
Frequency	48.03	48.03
PowerFactor	0.15	0.15
ReactivePower	45.45	45.45
Voltage_BR	11.67	11.67
Voltage_RY	12.16	12.16
Voltage_YB	11.93	11.93

Tag Search – Add Tags Option

Once a trend is created, users have the ability to add more tags and monitor the trend by utilizing the "add tags" option.

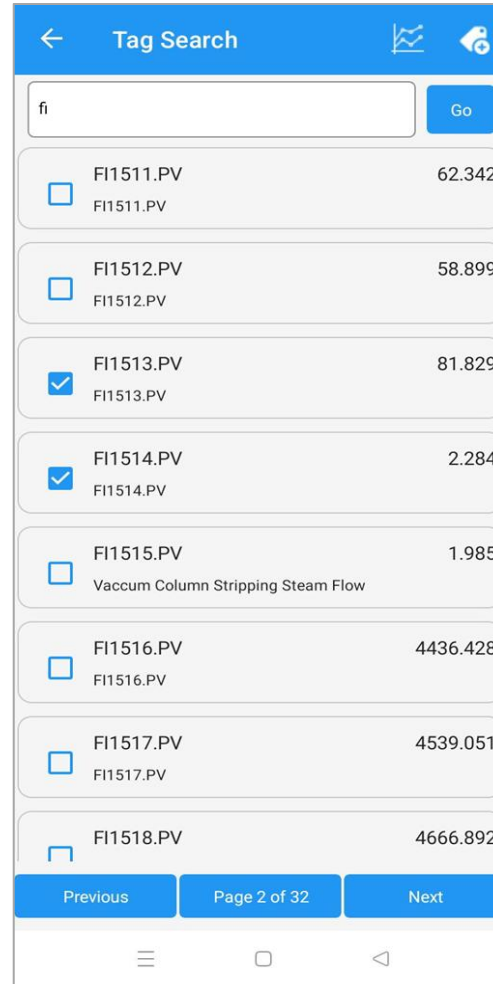


Tag Search

fi

<input type="checkbox"/>	FI1501.PV Crude Feed Flow	547.248 M3/Hr
<input type="checkbox"/>	FI1502.PV Total Crude to Atm Heater	504.376
<input checked="" type="checkbox"/>	FI1503.PV HN Rundown	9.199
<input checked="" type="checkbox"/>	FI1504.PV Kero Rundown	56.155
<input checked="" type="checkbox"/>	FI1505.PV GO Rundown	93.52 M3/Hr
<input type="checkbox"/>	FI1506.PV EGO Rundown	17.819
<input type="checkbox"/>	FI1507.PV FI1507.PV	221.405
<input type="checkbox"/>	FI1508.PV	24.032

Previous Page 1 of 32 Next

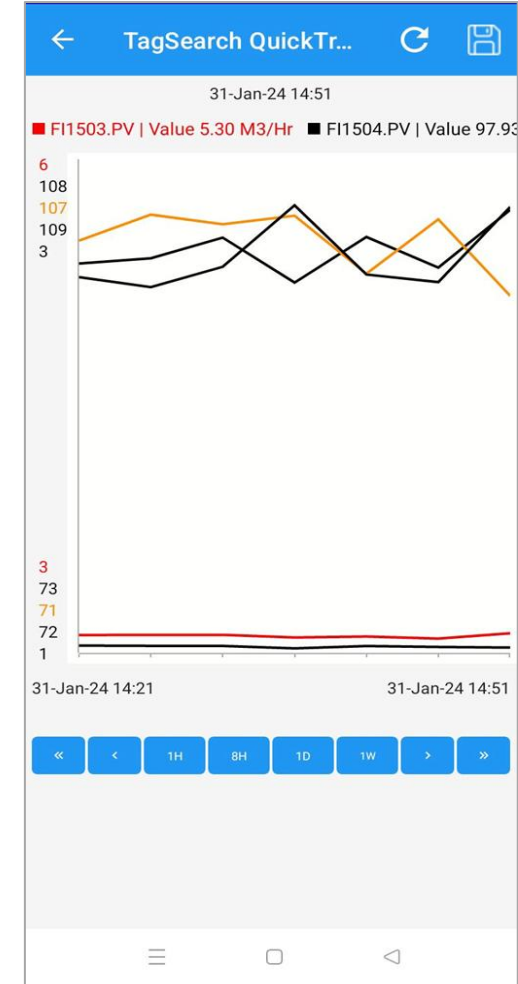


Tag Search

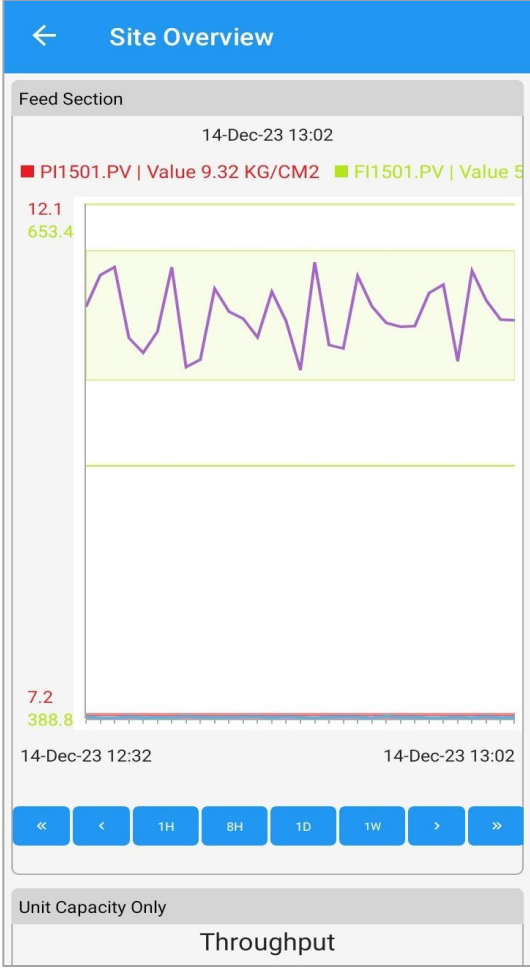
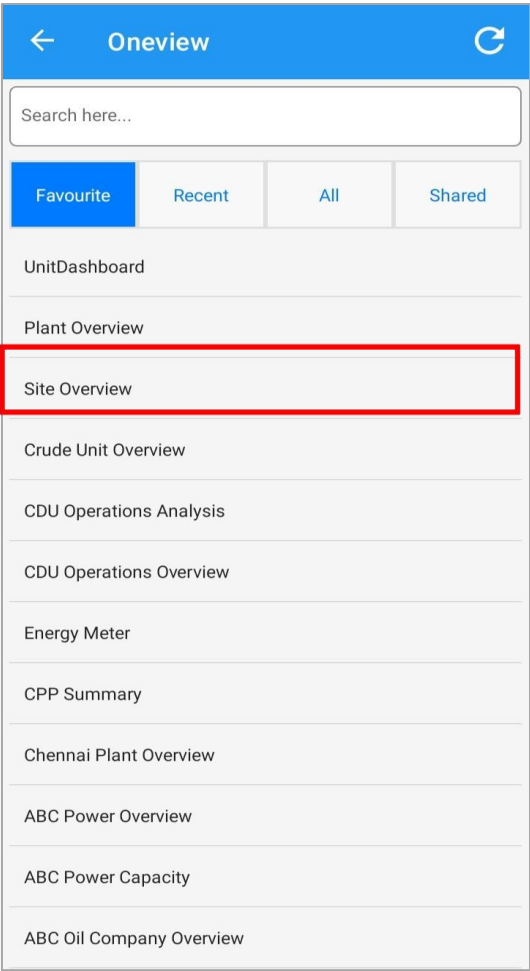
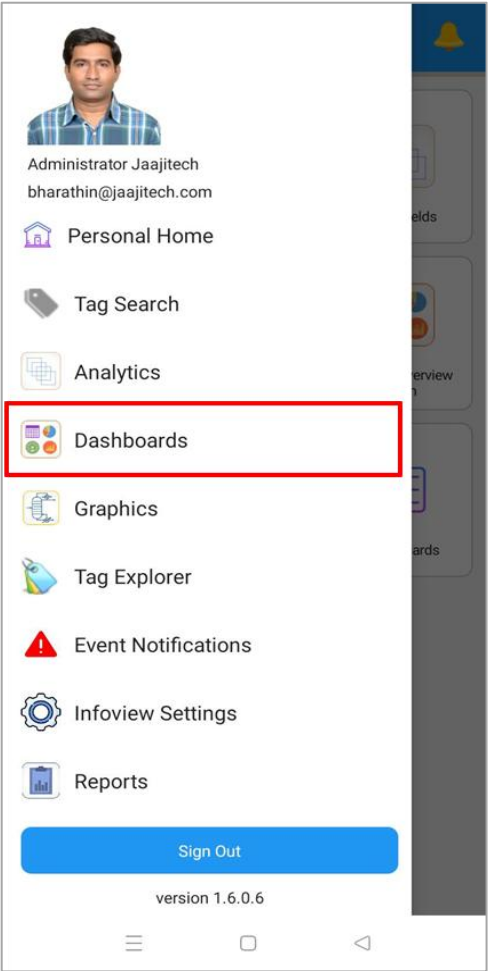
fi

<input type="checkbox"/>	FI1511.PV FI1511.PV	62.342
<input type="checkbox"/>	FI1512.PV FI1512.PV	58.899
<input checked="" type="checkbox"/>	FI1513.PV FI1513.PV	81.829
<input checked="" type="checkbox"/>	FI1514.PV FI1514.PV	2.284
<input type="checkbox"/>	FI1515.PV Vaccum Column Stripping Steam Flow	1.985
<input type="checkbox"/>	FI1516.PV FI1516.PV	4436.428
<input type="checkbox"/>	FI1517.PV FI1517.PV	4539.051
<input type="checkbox"/>	FI1518.PV	4666.892

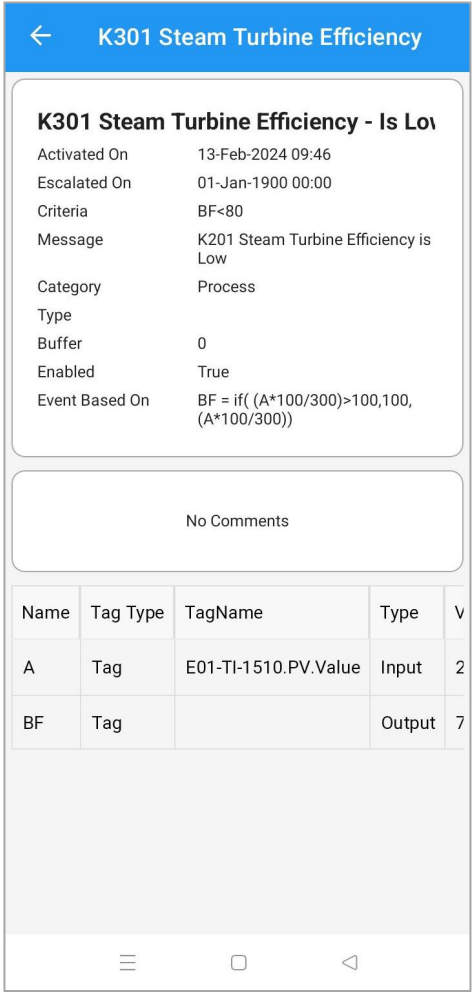
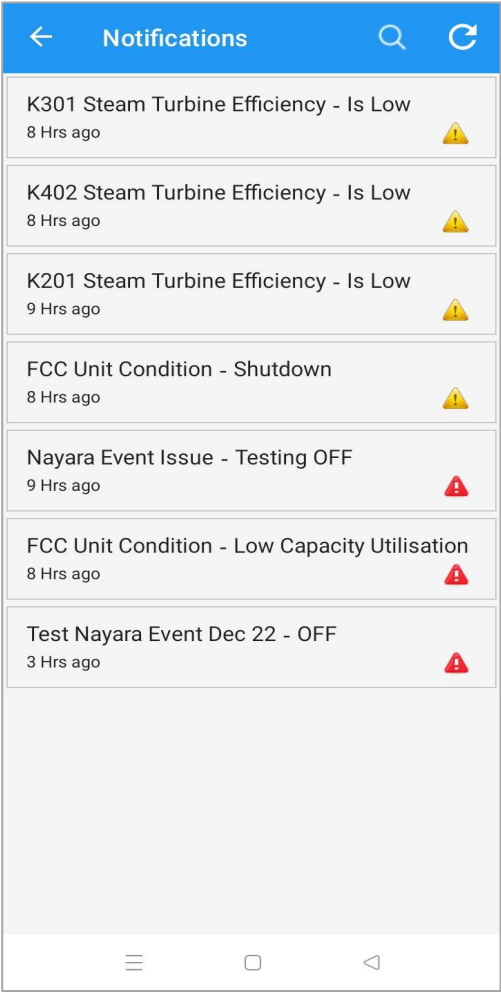
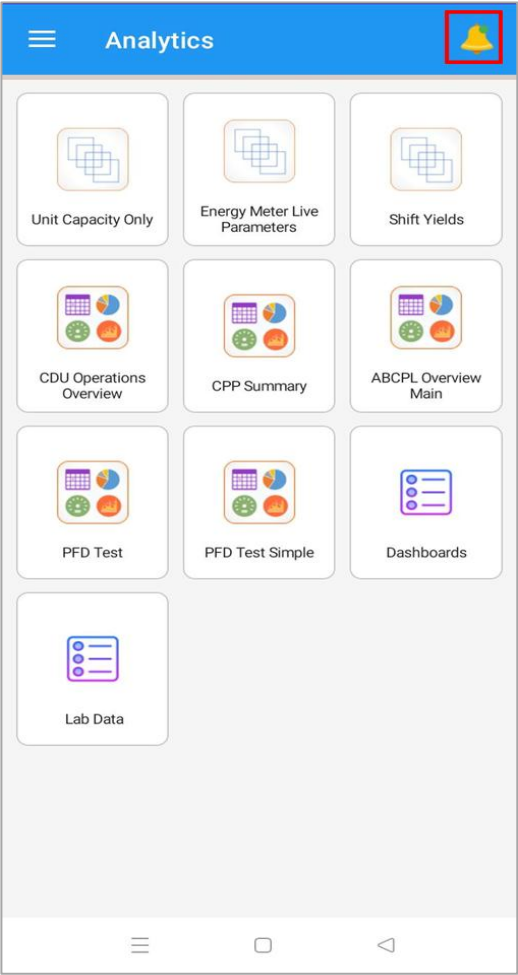
Previous Page 2 of 32 Next



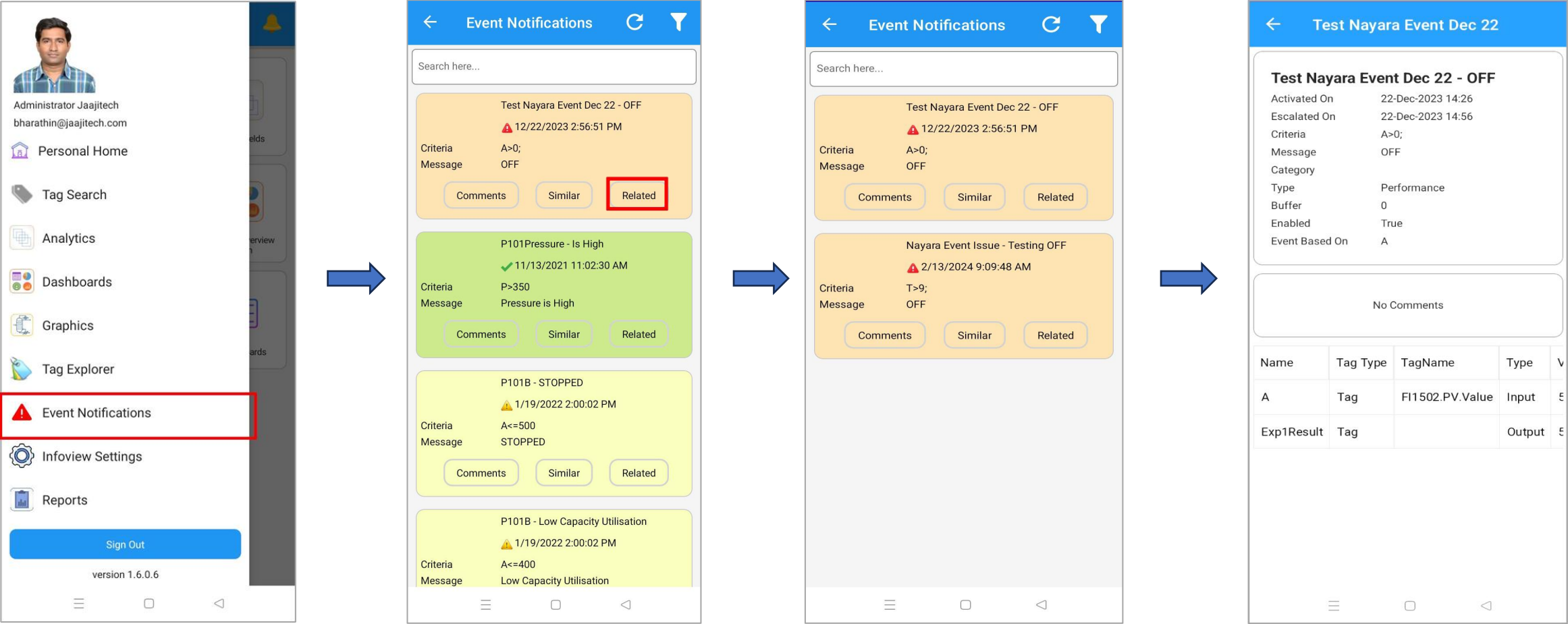
Dashboards view




Notifications



Event Summaries



Reports - View



Administrator Jaajitech
bharathin@jaajitech.com

Personal Home

Tag Search

Analytics

Dashboards

Graphics

Tag Explorer

Event Notifications

Infview Settings

Reports

Sign Out

version 1.6.0.6



← Reports ↻

Search here...

All Recent Favourite Shared

Birla Cellulosic, Kharach

Daily PID Performance Report

Daily Reliability Report

EMS_DailyReport1_Web

Refinery Integrated Management System

Testing Calc Report

Testing Calc report1

Testing Jan 25



← Reports ↻

Search here...

All Recent Favourite Shared

Birla Cellulosic, Kharach

Daily PID Performance Report

Daily Reliability Report

EMS_DailyReport1_Web

Refinery Integrated Management System

Saved Reports

View

ViewPDF

SendByEmail

Testing Calc Report

Testing Calc report1

Testing Jan 25



← < Refinery Integrated ... > ⋮

Refinery Integrated Management System

CDU_01

Crude Feed Flow	%	545.43
-----------------	---	--------

CDU_02

Unit Through, Crude:	M3/Hr	559.50
----------------------	-------	--------

HIGHLIGHTS

All are OK

CDU_03

STREAM	Design MT/h	Design MT/h
HN Rundown	10.83	10.83
Kero Rundown	53.65	53.65
GO Rundown	83.58	83.58
EGO Rundown	17.67	17.67
RCO Flow to Vac Colu...	255.81	255.81
LPG Flow	27.27	27.27
Naphtha	82.47	82.47
Vaccum Diesel Rundo...	13.65	13.65

CDU_04

PARAMETERS	UOM	ACTUAL
FO sp. Consp in Heat...	M3	70.38

←

⋮

Download Report

↓

📄

TimeOptions

SavedReports

Go to web-view

Date :14/02/2024

Feed Section

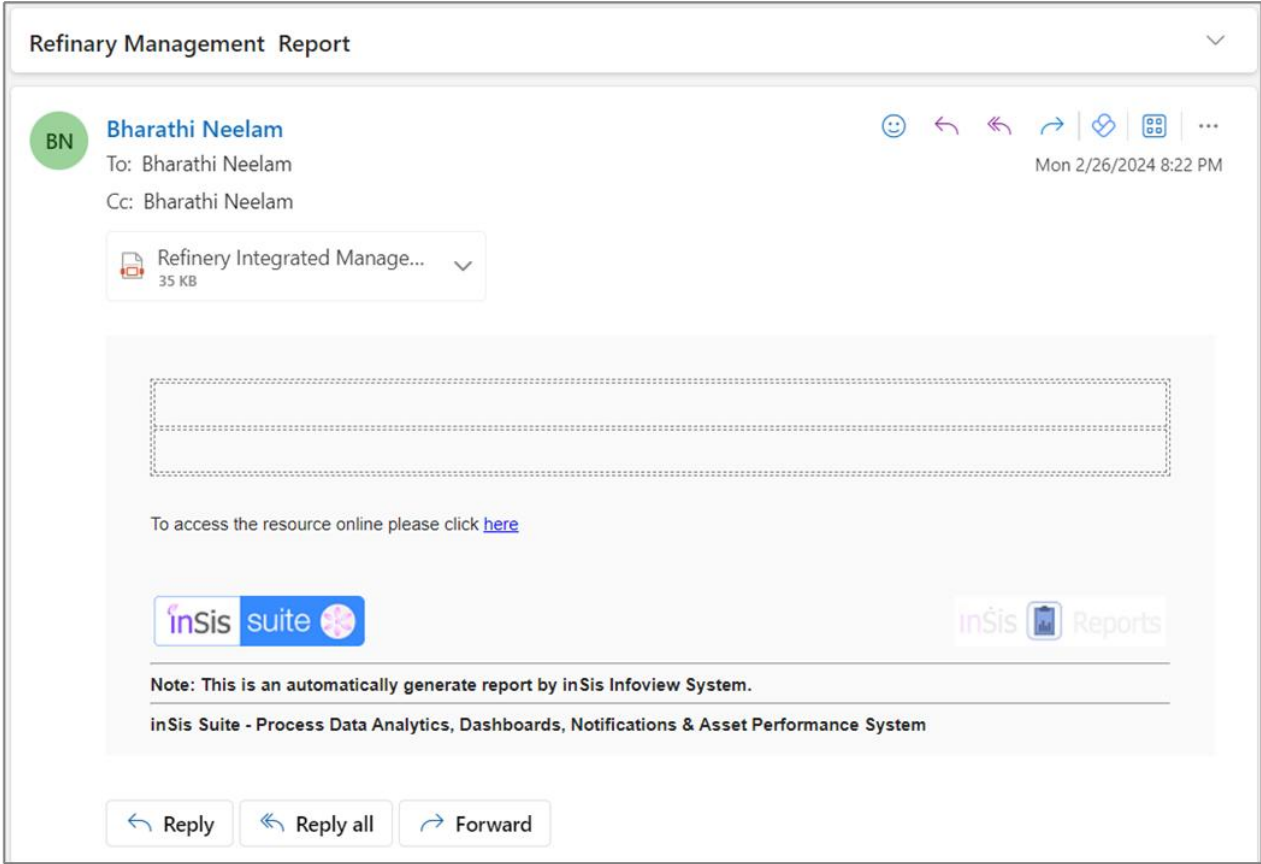
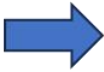
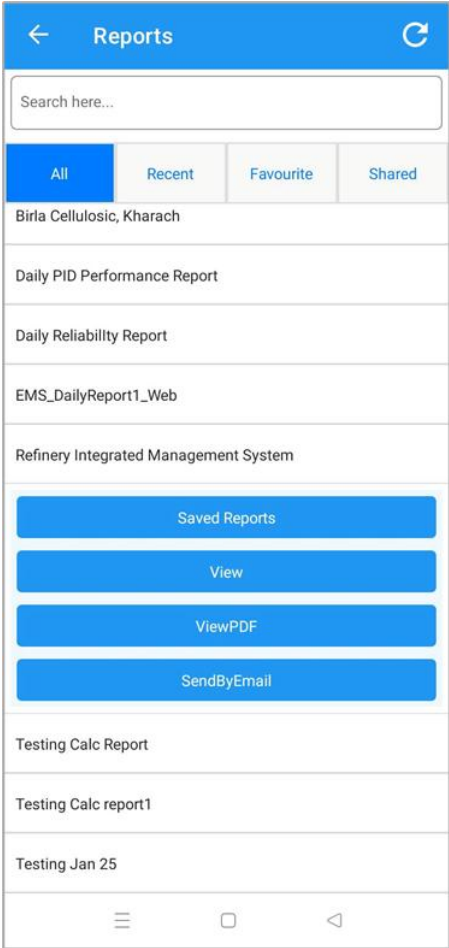
Tags	Units	14-Feb-24 06:00
-Fiber	Unit	232.96
Line-1	Unit	250.36
Line-2	Unit	233.75
Line-3	Unit	180.62
Line-4	Unit	275.66
- Sodium	Unit	183.42
- CS2	Unit	189.49
- Acid	Unit	241.80

Birla Cellulosic, Khar...									
Birla Cellulosic, Kharach									
Daily Plant Performance Test									
Tag	Units	14-Feb-24 08:00	14-Feb-24 07:00	14-Feb-24 06	Date : 14/02/2024				
Fiber	Unit	232.96	232.96	232.96					
Line-1	Unit	250.36	250.36	250.36					
Line-2	Unit	233.75	233.75	233.75					
Line-3	Unit	180.62	180.62	180.62	No Production Reasons				
Line-4	Unit	275.66	275.66	275.66					
- Sodium	Unit	183.42	183.42	183.42					
-Cl2	Unit	189.49	189.49	189.49					
-H2O	Unit	241.80	241.80	241.80					
Tag		14-Feb-24 08:00	14-Feb-24 09:00	14-Feb-24 12	Tag <th></th> <th>14-Feb-24 06:00</th> <th data-cs="2" data-kind="parent"></th> <th data-kind="ghost"></th>		14-Feb-24 06:00		
Fiber - Domestic	202.34	202.34	202.34	202.34	Fiber - Gray		361.42		
Fiber - Export	330.08	330.08	330.08	330.08	Fiber Non Woven		182.85		
Total - D + E	186.13	186.13	186.13	186.13	Total (+/-)		266.87		
Sodium	249.19	249.19	249.19	249.19	Sulfur		258.69		
					Cl2		221.68		
					Acid		224.89		
Tag		14-Feb-24 06:00	14-Feb-24 09:00	14-Feb-24	Tag <td></td> <th>14-Feb-24 08:00</th> <th>14-Feb-24 10:00</th> <th>14-Feb-24 14:00</th>		14-Feb-24 08:00	14-Feb-24 10:00	14-Feb-24 14:00
Al-Cell	136.37	136.37	136.37	136.37	Line-1	153.40	153.40	153.40	
Clorox	143.93	143.93	143.93	143.93	Line-2	182.03	182.03	182.03	
Sewage	332.19	332.19	332.19	332.19	Line-3	237.89	237.89	237.89	
GasSelector	363.82	363.82	363.82	363.82	Line-4	143.18	143.18	143.18	
NON PRIME, CATELY	182.10	182.10	182.10	182.10	Unit				
Boiling Balance Day					Ang				
Tag		14-Feb-24 08:00	14-Feb-24 06:02	14-Feb-24 06:04	14-Feb-24				
Line-1	168.79	168.79	168.79	168.79	Off				
Line-2	251.96	251.96	251.96	251.96	Off Grade Non Gradation				
Line-3	222.86	222.86	222.86	222.86					
Line-4	251.19	251.19	251.19	251.19					
PV - Major Deviler									
PT - Major Deviler									
Doc No.					Revision No.			Date	
NAYATS/PROC/DOC-2/001					0			18-Jun-18	
					Birla Cellulosic, Kharach				
					Daily Plant Performance Test			Date : 14/02/2024	
Doc No.					Revision No.			Date	
NAYATS/PROC/DOC-2/001					0			18-Jun-18	

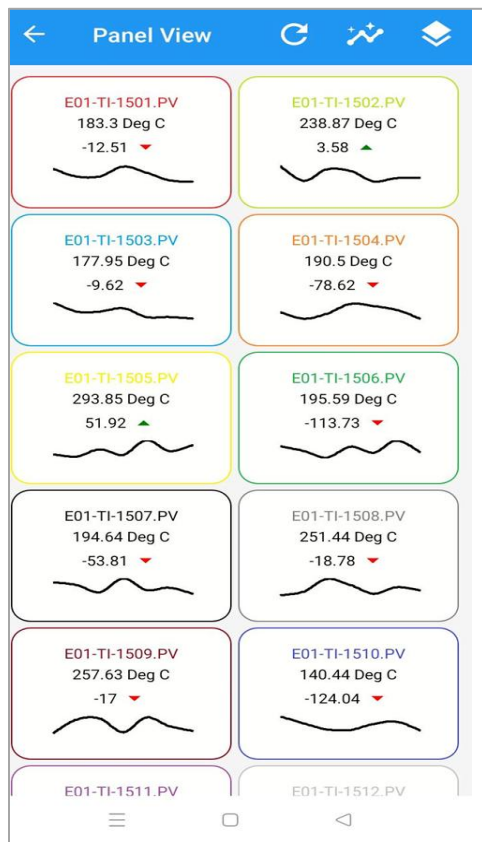
	A	B	C	D
1	Time	Price_P_Pet_Cokri	Off_Uls	cal
2	1/23/24 6:00		123	-9876
3	1/23/24 11:00			-19998
4	1/23/24 16:00			-19998
5	1/23/24 21:00			-19998
6	1/24/24 2:00			-19998
7				
8				
9				
10				
11				
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30				



Reports - SendByEmail



Native Views – Panelview, Tableview, Matrixview



Panel View

The Table View displays a data table for Feed Flows. The table has columns for Shift, Crude to Unit, and Crude to Atm Heater. The data is organized into rows for Shift-B, Shift-C, and a date-based entry.

Feed		
	Crude to Unit	Crude to Atm Heater
Shift-B	494.66	9.52
Shift-C	493.28	9.42
01-Feb-24 06:00	500.33	8.76

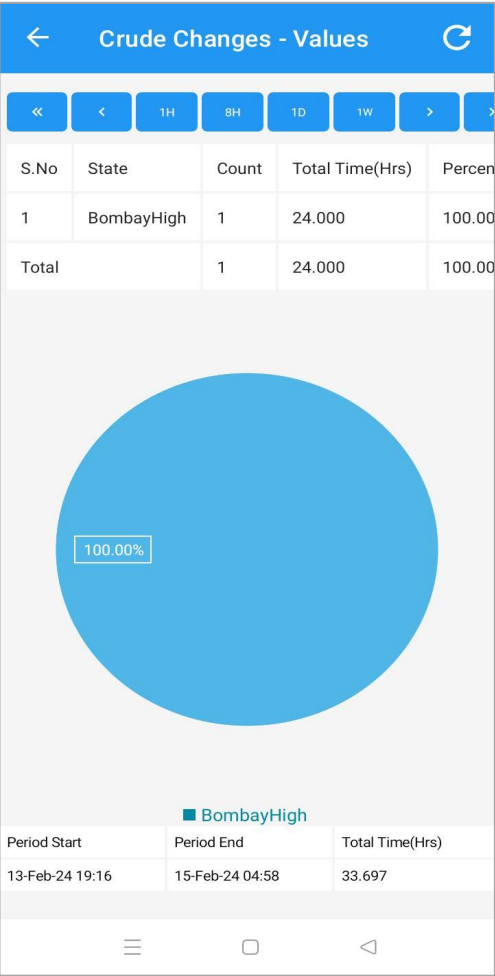
Table View

The Matrix View displays a matrix of data. The matrix has columns for Col1 and Col2. The data is organized into rows for various sensor values and a date-based entry.

	Col1	Col2
FI1501.PV.Value	Overload	48.80
FI1502.PV.Value	Overload	90.06
FI1503.PV.Value	Shutdown	19.10
E01-TI-1501.PV.V...	Overload	160.50

Matrix View

Native Views – Change Period Analysis, Asset comments, Correlation Matrix



Change Period Analysis

The screenshot shows the 'Asset Comments' screen. It has a blue header with a back arrow, the title 'Asset Comments', and a filter icon. Below the header is a 'Filter' button. The main content is a table with columns: Comment, CommentStatus, and CommentTime. The table lists various comments with their statuses and timestamps.

Comment	CommentStatus	CommentTime
testing	New	08-Feb-23 13:24
test	New	08-Feb-23 15:26
hv	New	08-Feb-23 15:28
test	New	08-Feb-23 15:42
n k	New	08-Feb-23 15:45
tgylfh	New	10-Feb-23 18:00
test	New	10-Feb-23 18:00
ok	Closed	10-Feb-23 18:01
ewrwe	New	18-Apr-23 12:38
ghgtretr	New	18-Apr-23 14:07
good to know	New	26-Apr-23 13:24
adhyjuklop	New	03-May-23 11:55
This is my Test Comment	New	13-Dec-23 17:18
xtdrt	New	08-Feb-23 15:29
Testing	New	03-Apr-23 19:37
xvcvbn	New	26-Apr-23 13:09
tfghgh	New	03-Apr-23 19:37
kil	New	26-Apr-23 13:14

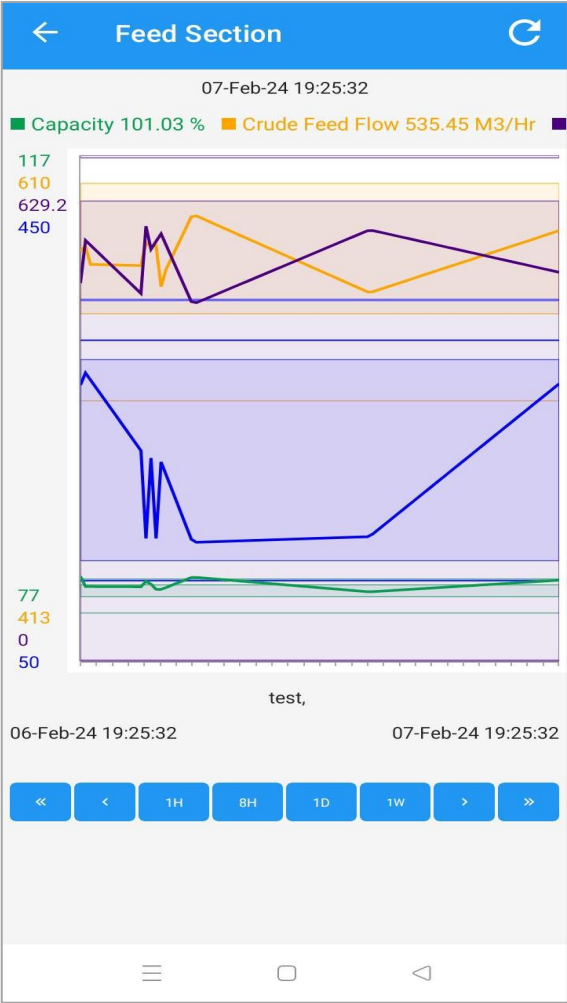
Asset Comments

The screenshot shows the 'Correlation Matrix' screen. It has a blue header with a back arrow, the title 'Correlation Matrix', and a refresh icon. Below the header is a table with columns: Correlation, Crude Feed Flow, and Total Crude to At... The table shows correlation values for different assets.

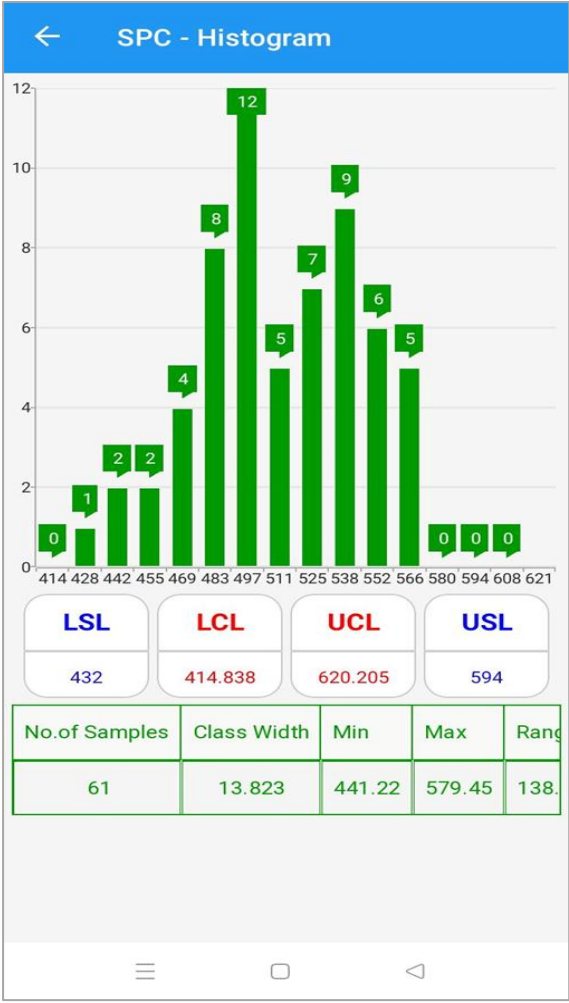
Correlation	Crude Feed Flow	Total Crude to At...
Crude Feed Flow	1.00	-9999
Total Crude to At...	-9999	1.00
HN Rundown	1.17	-9999
Kero Rundown	-9999	-1.83

Correlation Matrix

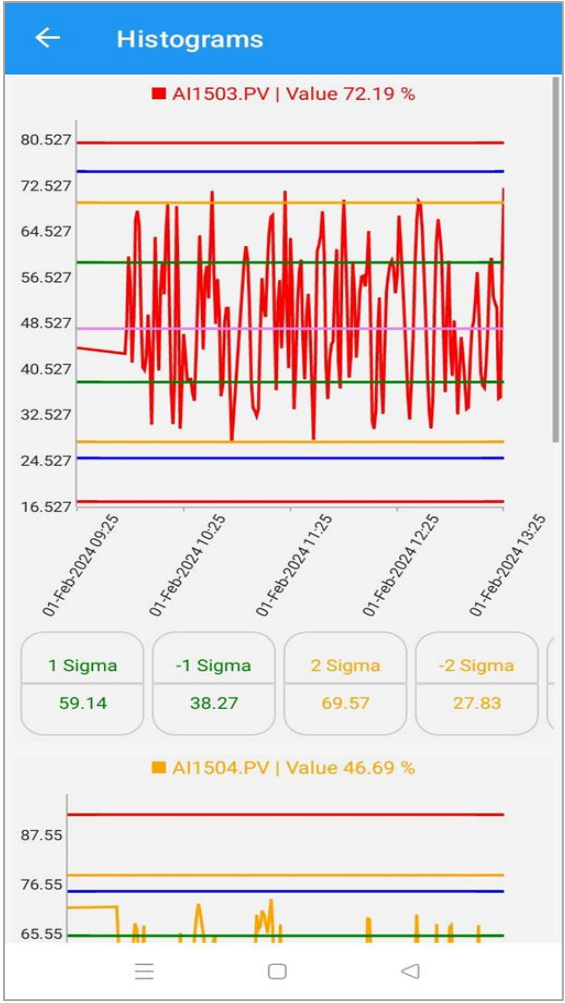
Native Views – Line chart, Histogram, Stability chart



Line Chart

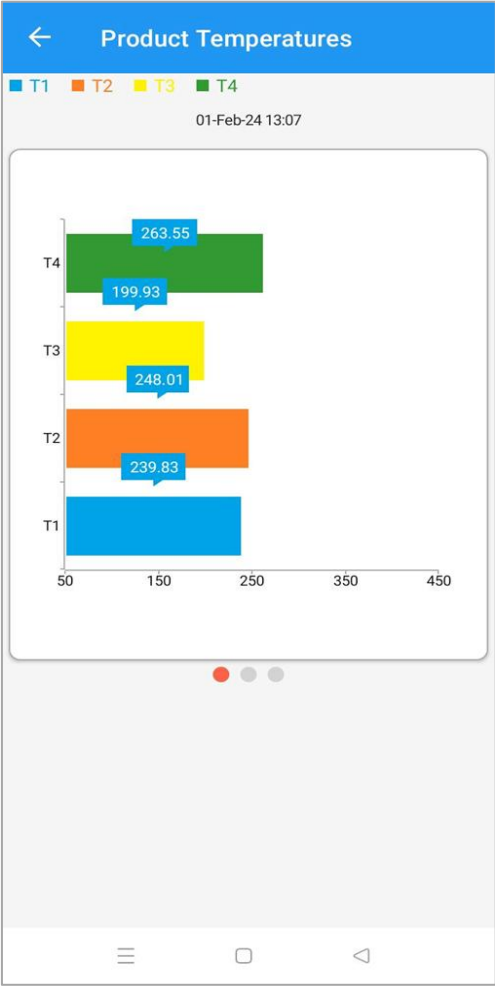


Histogram

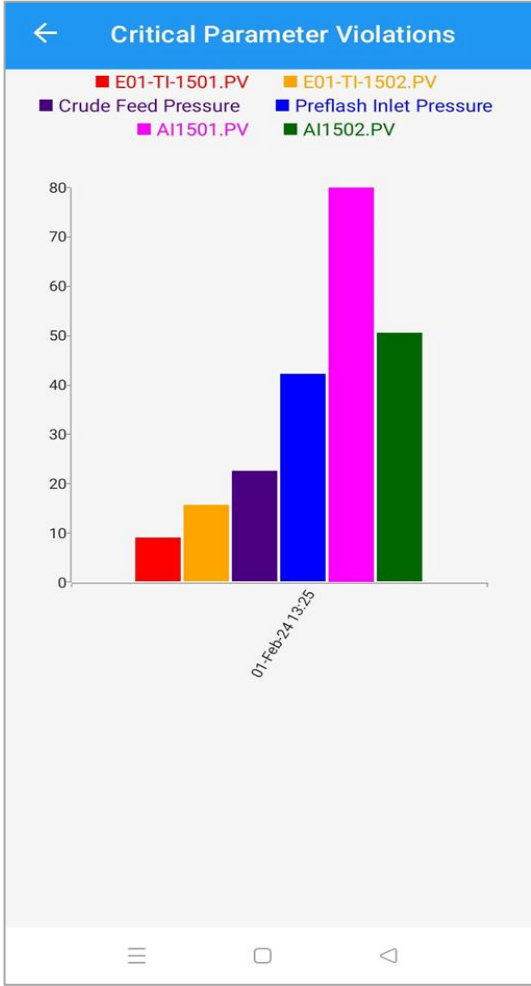


Stability Chart

Native Views – Bar chart, Column chart, Bullet chart, Progress chart



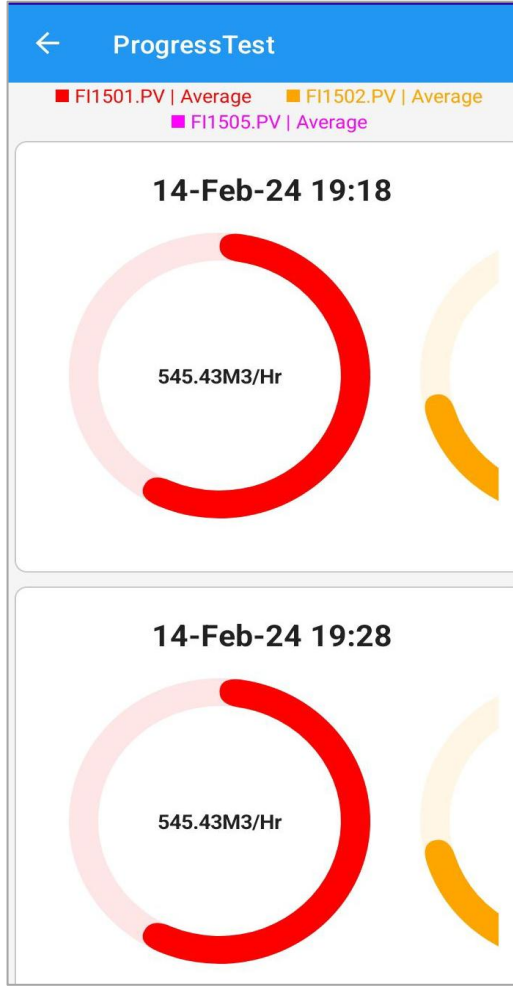
Bar Chart



Column Chart

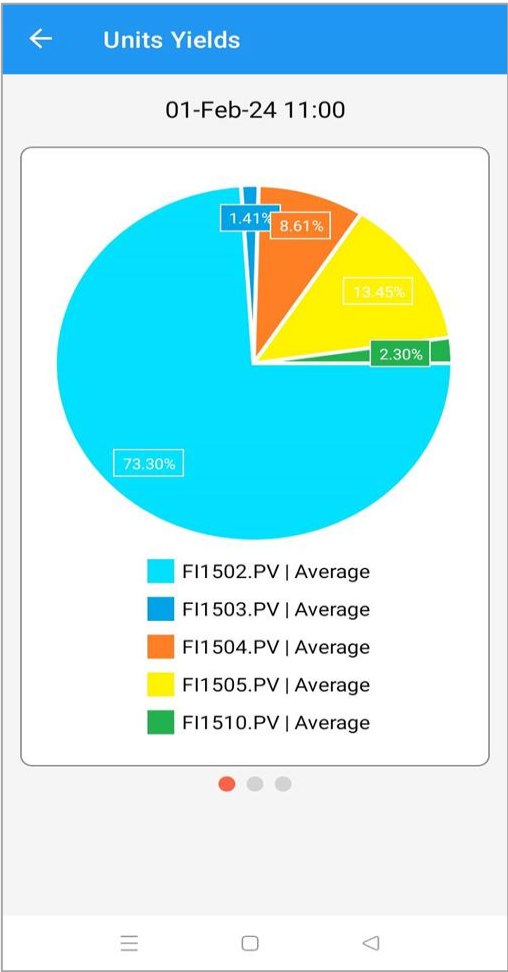


Bullet Chart

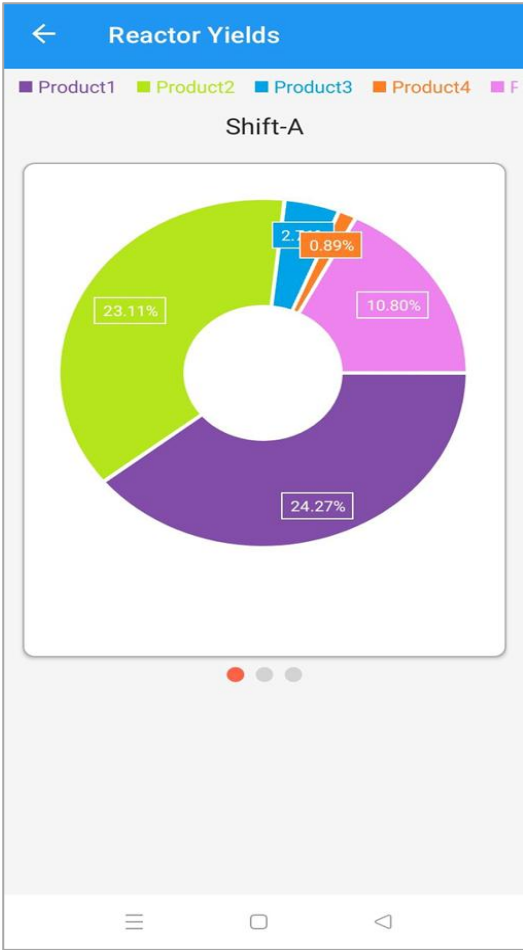


Progress Chart

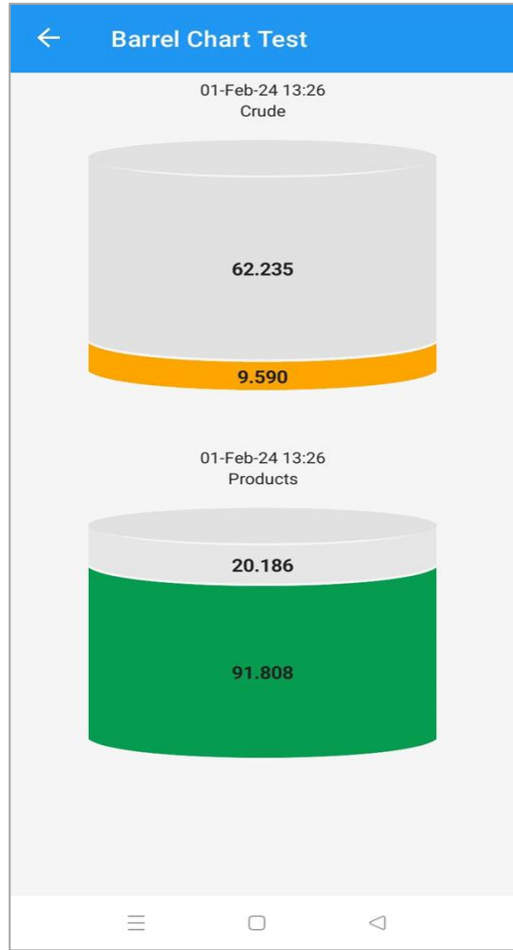
Native Views – Pie chat, Donut chart, Barrel view



Pie Chart



Donut Chart



Barrel View

Players in a transformational journey



The Optimist

- Everything will go fine
- I am positive this will help us
- There are not many challenges

The Champion

- This is hard work; but can be done
- The organization is on the right track
- I need to measure the benefits periodically
- I need to involve the middle management and the users
- I need to talk to people to get this right



The Quiz Master

- He has end less questions
- There is an element of doubt always
- Can get stuck in a place



The Islander

- Is in his own zone of apprehensions
- Can spread his doubts and fears
- Too early or too late in responding
- Stays away from taking responsibility

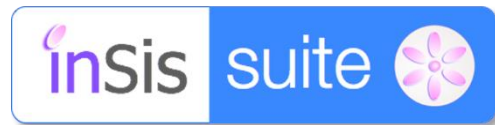




Thank You...



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