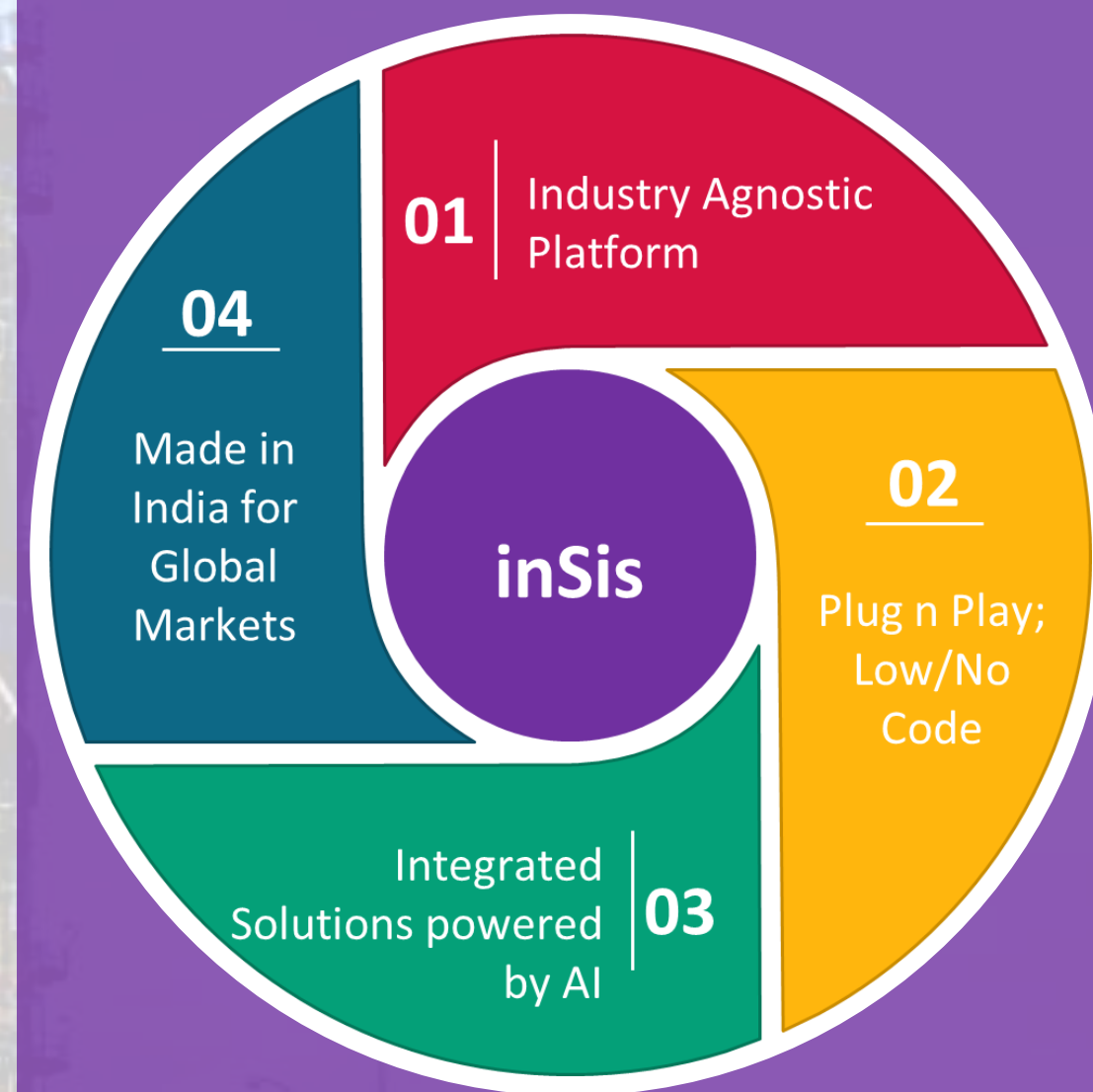
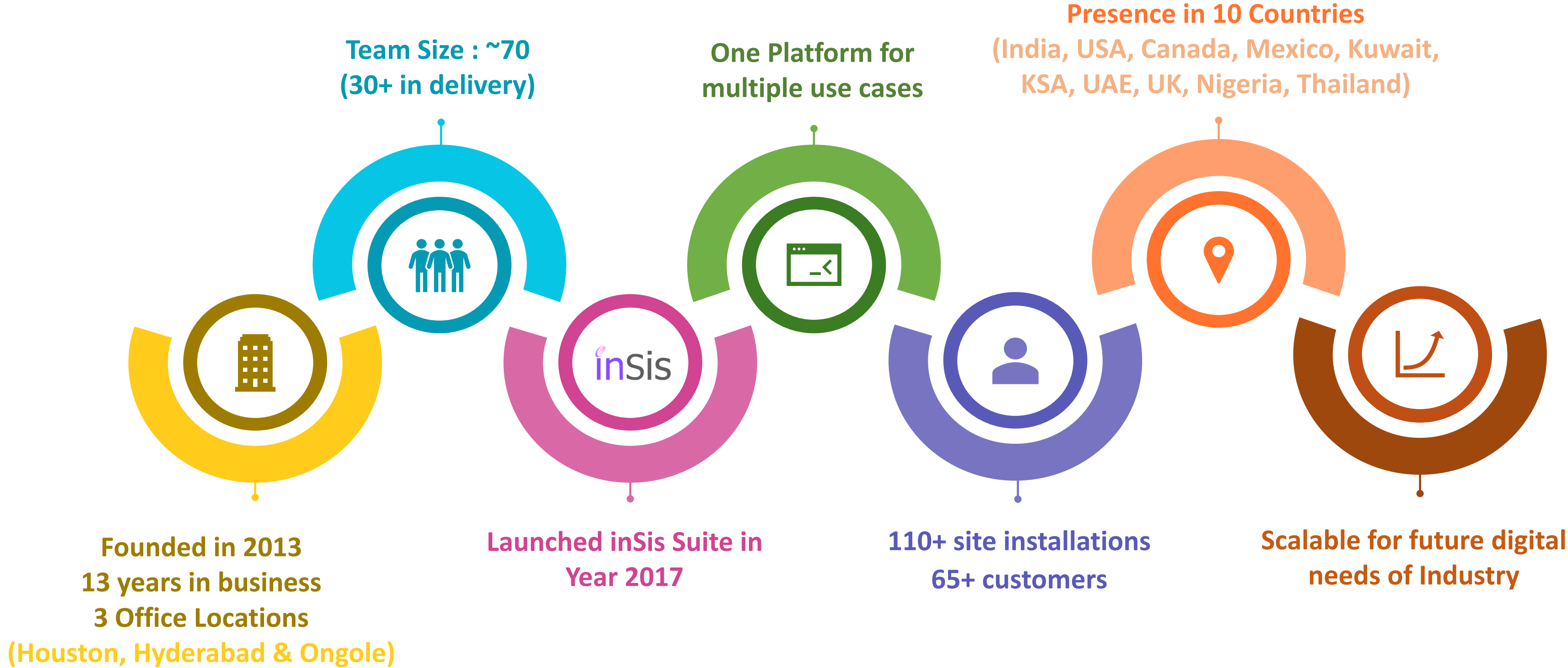


Connected Worker

Driving collaboration among the Refinery Personnel



Serving Indian Manufacturing since 2013



Our Customers TRUST us for the value we bring

More than 80% of our customers have extended contracts

Oil & Gas



Chemical



Metals & Mining



Power & Renewables



Cement, Food Paper & more



Management Team



Siva Kondapi
Founder and CEO



Sunil Kumar
Chief Operations Officer



Rajesh Kaza
Chief Sales Officer

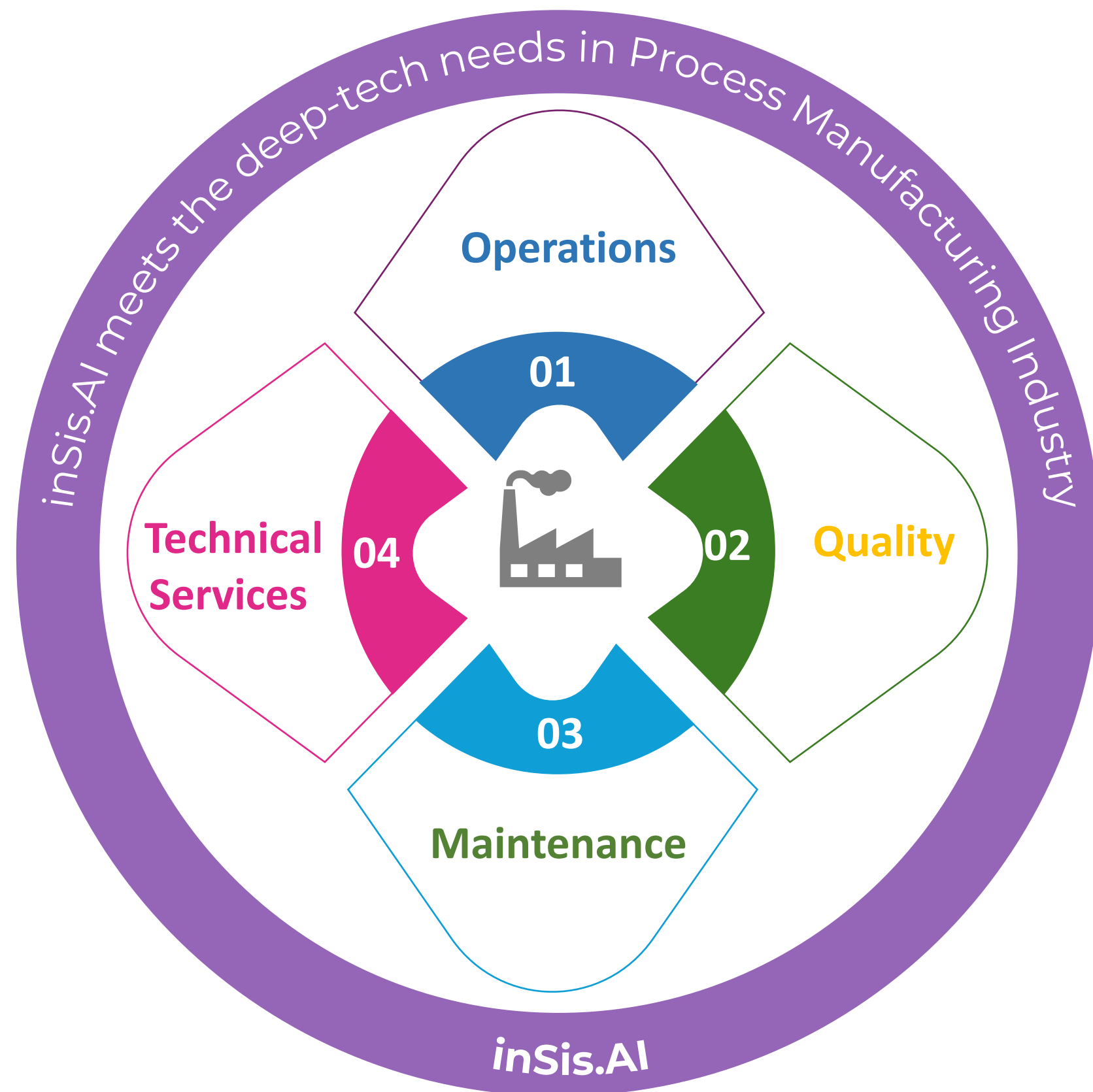
- 25+ Years of global industry experience (ex – IOCL, Aspen Tech)
- Has rich domain experience in process industry operations & technical services
- Vast experience in design & development of digital transformation, AI and other industrial software
- Architect and Key Product Developer of inSis platform

- 27+ years of global industry experience (ex- Accenture, Dell, Wipro) across different verticals
- Rich experience in management consulting including operations and manufacturing
- Managed multi-million dollar accounts globally

- An Instrumentation Engineer with 24+ years of Experience across sectors (Ex- Honeywell)
- Experienced in Sales, Services & Project Operations, P&L etc.,
- OT Cybersecurity, Integrations unto single pane of glass, Automation Contracting / Co-sourcing

The Solution: An integrated platform for Digital Transformation

Meets various needs across **Operations**, **Maintenance**, **Quality** & **Technical Services** in your Digital Transformation Journey



Connected-worker Platform

Digital Operations Logbook

Safety Interlock Bypass Management System

inSis forms for Industry Apps, Digital Kaizen

Alarm Management, LOTO, Permit-to-Work

Laboratory Information Management System

AMADAS – Analyzer Reliability Management

Digital Maintenance Check-Lists

Asset Performance 360

Predictive Analytics for Asset anomaly detection

Substation Relay and Power Quality Monitoring

Performance Management System

Data Analytics, Reports & Anomaly Notifications

Batch Analytics & AI-based Batch Monitoring

Energy Management & Optimisation

Native Mobile Apps

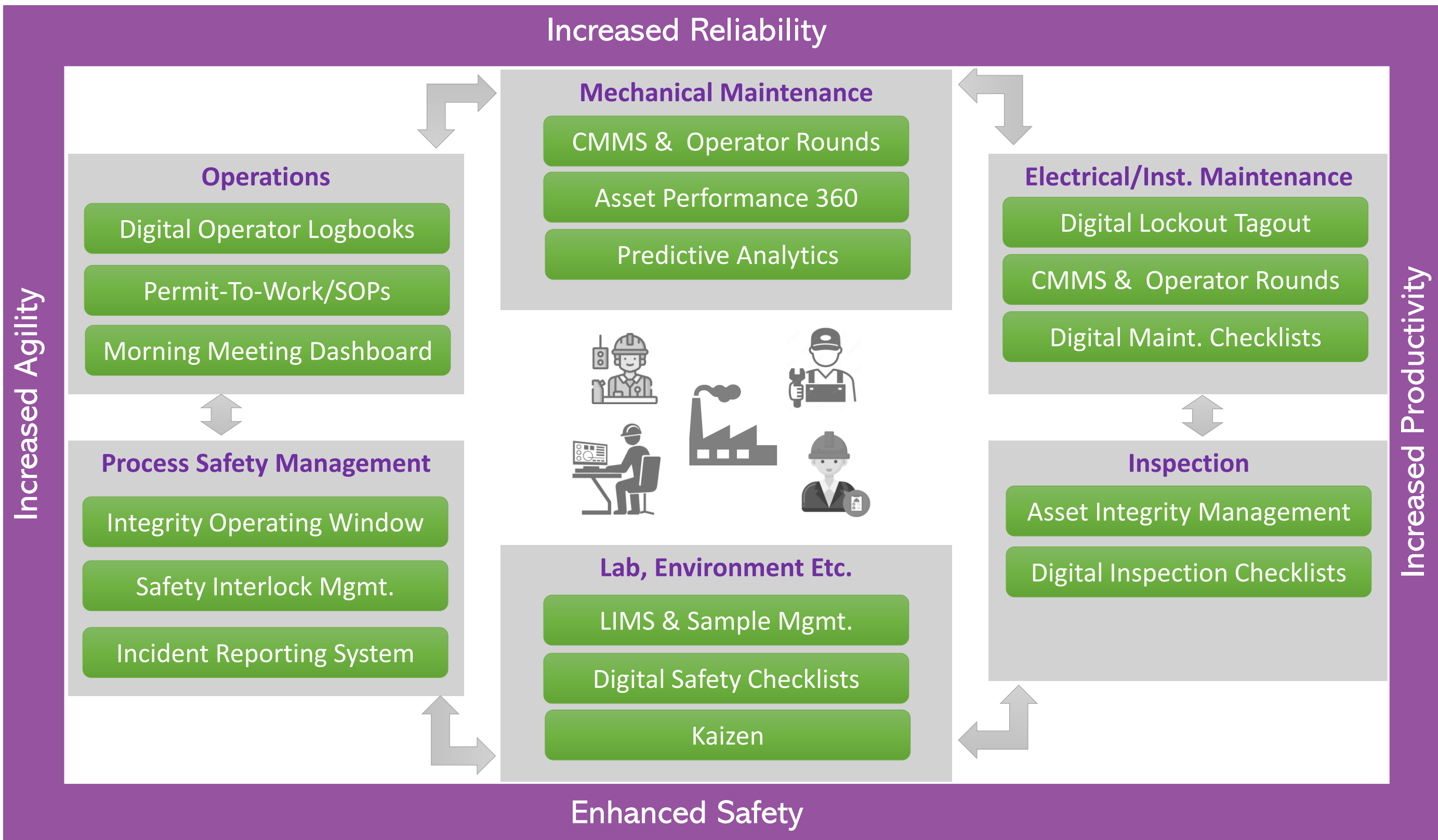
inSis.AI - platform for diverse use cases of AI

How can connected worker help?



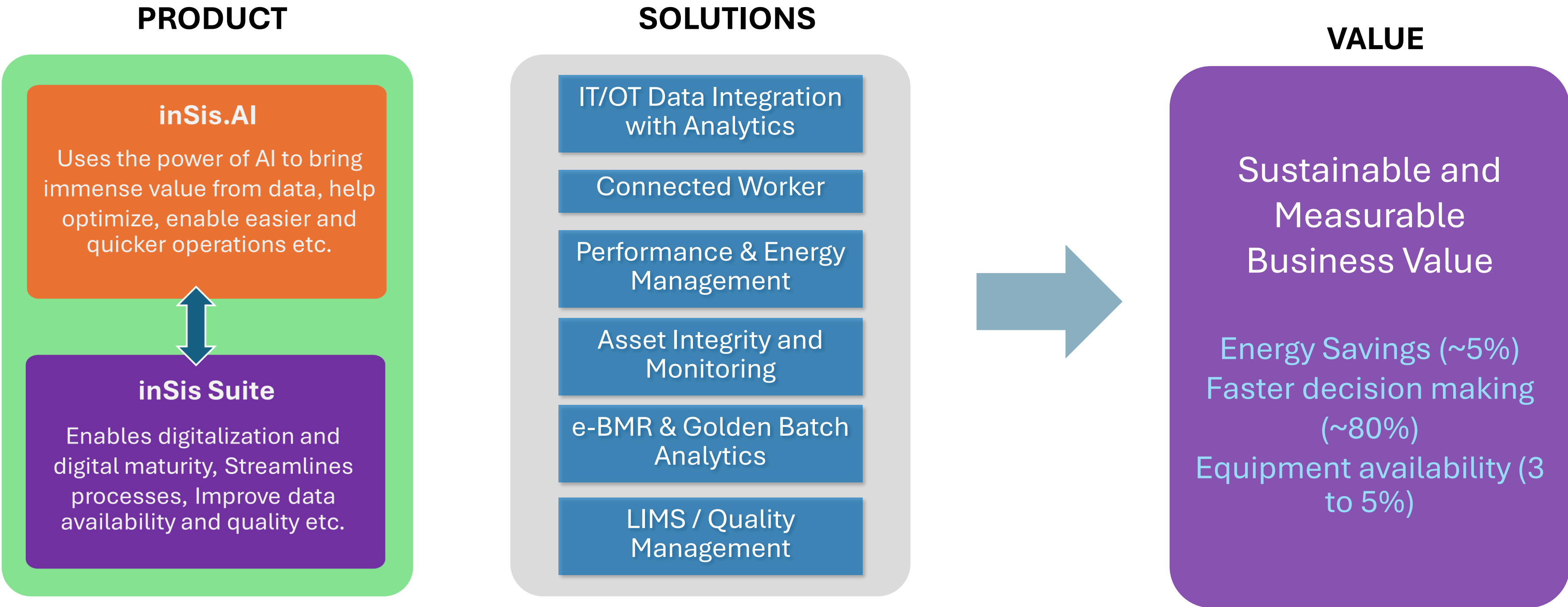
Accelerate your Digital Transformation with a Connected-worker platform

Connected-worker enables the frontline workforce with digital tools focused on asset operations & maintenance



- One unified native Mobile App for operations, maintenance, inspection, safety and laboratory teams
- Enables seamless & effective collaboration between various teams
- Decreased Time-to-respond to issues on the ground
- Increases ground operations visibility & situational awareness
- Streamlines digital workflows
- Results in a good quality data for AI-adoption

Powerful Platform combined with years of DIGITAL experience



inSis.AI - platform for diverse use cases of AI

inSis.AI

Uses the power of AI to bring immense value from data, help optimize, enable easier and quicker operations etc.



inSis Suite

Enables digitalization and digital maturity, Streamlines processes, Improve data availability and quality etc.

- Predict pump **failure**
- Estimate **remaining life** of a catalyst
- Do RCA based on **pattern recognition** for a compressor
- Project the **efficiency** of a heat exchanger
- Identify operational scenarios with **high safety risks**
- Analyse **high pressure vessel thickness** trends to estimate failures
- Analyse **leakage patterns** in a heat exchanger
- Estimate impact on **environment** due to change in process conditions
- Minimize energy costs to achieve **Net-Zero** emissions
- Monitor **Batch deviations**
- Soft Sensors to predict critical **operational parameters**
- Predict yield / quality to decide on **optimal process conditions**

Maintenance



Safety and Asset Integrity



Sustainability



Operations



Asset Maintenance & Reliability Management

Asset Framework

inSis AF is flexible and extensive. Asset information and PM Schedule can also be integrated seamlessly (through RFCs)

Maintenance Schedules

Time-based, Condition Based, Run-length based Schedules drive the Reliability

Automated Reports

Equipment history card, Outage report and Abnormality report can be automated (Excel, PDF) for easy collaboration

Digital Checklists/SOPs

PM/LLF and other Checklists are configured for each asset and drive compliance by operator with instant access to SOPs

Mobile App for Field Connectivity

Accessibility on mobile using a Native App and associated analytics gives flexibility to operators

QR Code Scanning

QR based Asset scanning to drive compliance during site visit to each asset and easy access to asset information

Data Driven Decisions

Real-time and Historical Data Analytics helps in taking data-driven decisions and drives compliance

Predictive Analytics

Using Advanced Pattern Recognition and AI, the asset failures are predicted and planned for maintenance well ahead of failure



Energy and Power Quality Management

An integrated platform for Energy, Power Quality and Relay Monitoring System

Provides real time visibility of key energy parameters

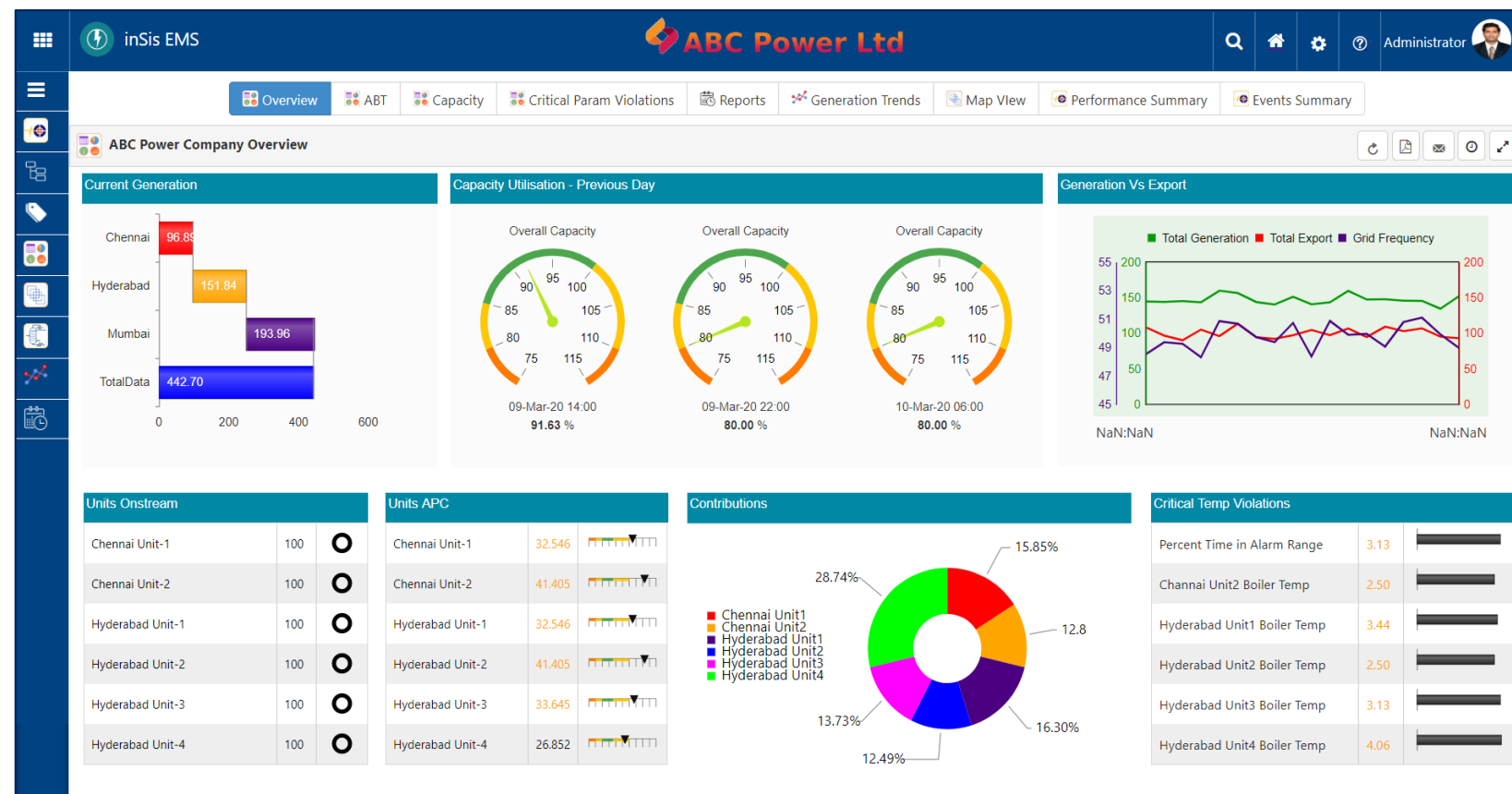
Indicates monetary impact real time

Shutdown, Idle times, excessive energy consumptions etc...

Performance monitoring for reports, Energy KPIs

Analyse for Critical & Safety Parameters Violations

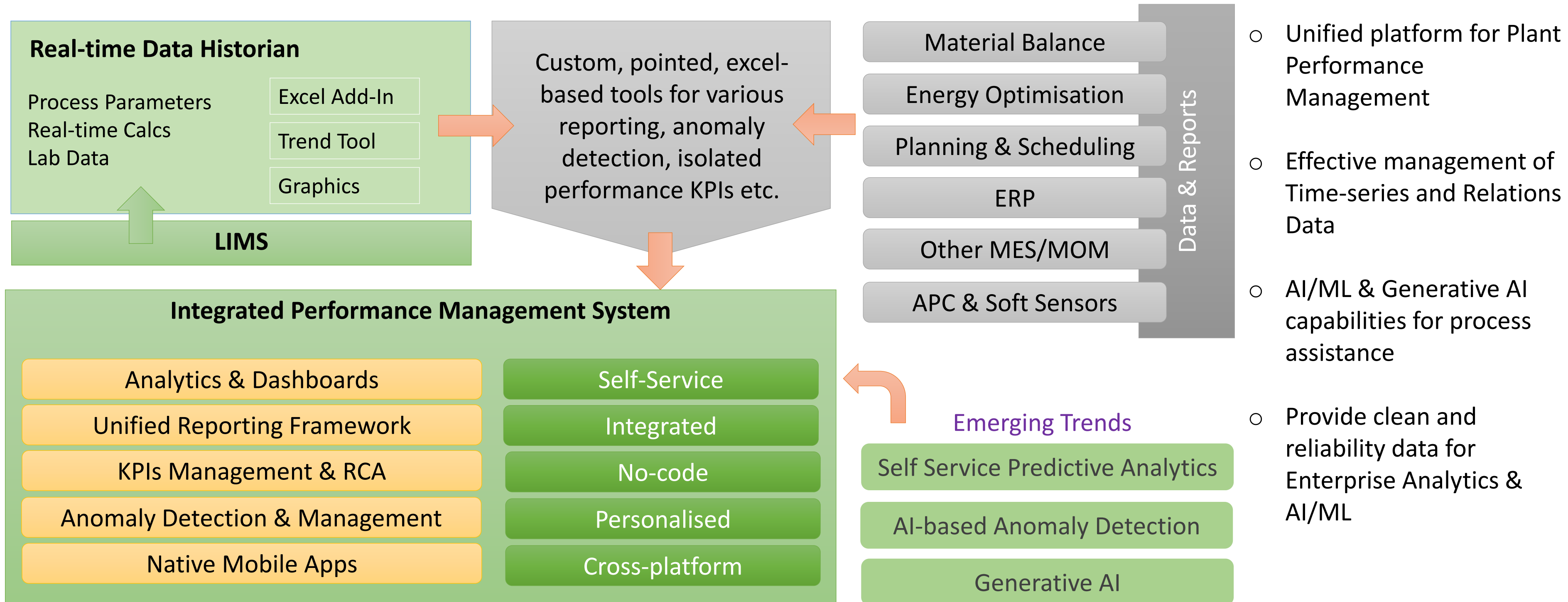
Automated Reports and access of energy data on Mobiles Apps



- Unified platform for management of Energy for Fuels, Steam and Electrical Power.
- Simplifies Data Collection, Calculations, Analytics and Reporting of Energy Information centrally
- Use of AI based Advanced Pattern Recognition to predict the energy performance degradations
- Provides Online Energy Balance and Equipemement Performance KPIs
- Provides tools for Power Quality analysis and online Relay monitoring

Integrated Plant Performance Management

Integrated Performance Management with Self-service & AI capabilities



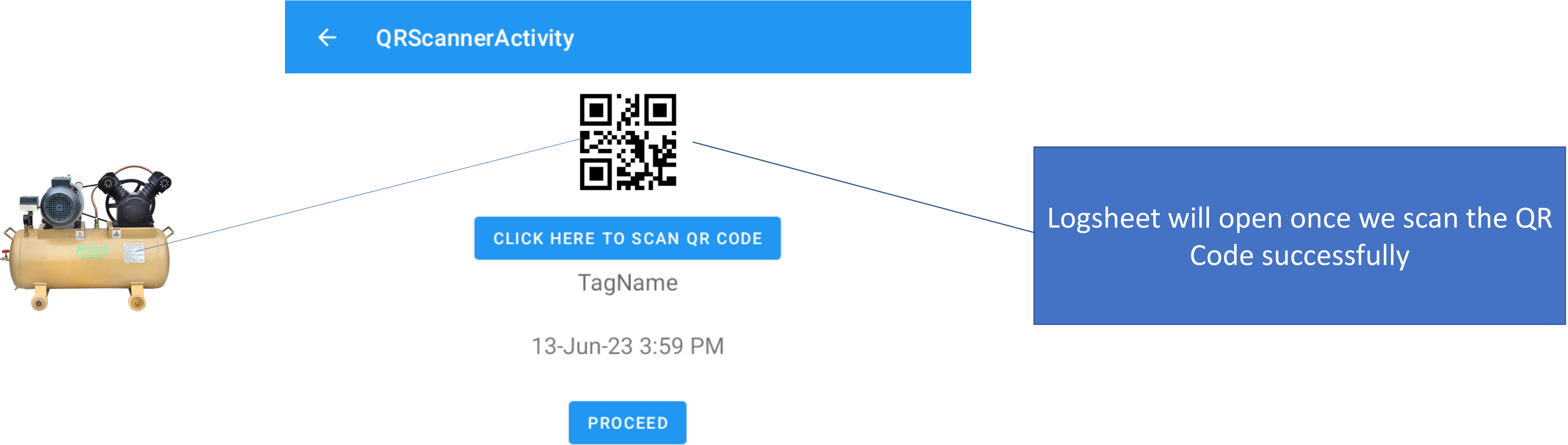
Jaajitech is proud to be part of digital projects at IOCL

Solution	Site / Unit	Scope	Year	Partner	Current Status
Historian	Faridabad R&D Centre	Integration of 22 PLCs ; Real-time data monitoring	2022/23	Direct	Completed
AMADAS	Paradip – ERU / EG units	33 analyzers, 6 shelters – Dashboards, analyzer calibration	2021	Yokogawa	Completed
AMADAS	Paradip - PP	42 analyzers, 7 shelters – Dashboards, analyzer calibration	2017	ABB	Completed
EMS	Haldia Township	Smart EMS using LoRaWAN for 30 Energy Meters across 5 clusters	2024	Direct	Completed
AMADAS	Panipat P25 PBR GC unit	50 analysers , 2 CEMS stacks , PLC – 2 nos , DCS – 1 no , Dashboards, analyzer calibration	2025	Yokogawa	In progress
AMADAS	ETP	90 analyzers , DCS- 1 no , , Dashboards, analyser calibration	2024	Emerson	In progress
AMADAS	Paradip – SRU	6 Analyzers , DCS – 1 no , Dashboards, analyser calibration	2023	Emerson	In progress
AMADAS	EPCC-1, EPCC-2 and EPCC-4	Analyser shelters- 4, 34 analysers , DCS- 1 no , dashboards, calibration	2023	ABB	In progress

1. Digital Logbooks (Sample Screens)

QR Code Scanning

Operators can scan the Field equipment with help of QR Code. The respective logbook or checklist for that equipment pops up on the handheld device so the operator can enter the observed data into the required field



Maintenance Schedule

Preventive Maintenance schedules built in SAP can be synchronized into inSis and compliance can be driven to ensure better availability of the assets. In addition, PM schedules can also be defined in inSis directly.

inSis suite

Maintenance Logbook

ABC Oil Company

Activity Summary

Select Asset

Go

Completed

InProgress

Scheduled

Paused

Cancelled

Delayed

Today

Thursday, June 01, 2023-Thursday, June 08, 2023

Day

Week

Work Week

Month

Agenda

Date	Time	Event
01 Thursday June, 2023	12:00 AM-1:00 AM	PM Checklist - Asset B
	12:00 AM-1:00 AM	PM - ABC Oil Company
	6:00 AM-2:00 PM	PH & KILN -1 SECTION CHECK LIST SHIFT A - Rotary Kiln
	6:00 AM-2:00 PM	KILN 1 COOLER CHECKLIST SHIFT A - Clinker Cooler
	2:00 PM-10:00 PM	PH & KILN -1 SECTION CHECK LIST SHIFT B - Rotary Kiln
	2:00 PM-10:00 PM	KILN 1 COOLER CHECKLIST SHIFT B - Clinker Cooler
	10:00 PM	PH & KILN -1 SECTION CHECK LIST SHIFT C - Rotary Kiln
	10:00 PM	KILN 1 COOLER CHECKLIST SHIFT C - Clinker Cooler
02 Friday June, 2023	12:00 AM-1:00 AM	PM Checklist - Asset B
	12:00 AM-1:00 AM	PM - ABC Oil Company
	12:30 AM-1:30 AM	WASHING TOWER CLEANING LINE 1 - ABC Chemical Company
	6:00 AM-2:00 PM	

Details

AssetDocuments

ActivityDocuments

CheckList

Scheduler Details

Schedulername

PM Checklist - Asset B

Activity name

PM Checklist

Asset

Asset B

Type

Checklist

LastUpdatedTime

31-May-2023 00:43

LastUpdatedByUser

CreatedTime

31-May-2023 00:43

CreatedUser

Performance Status

None

Order Number

Schedule Start Time

01-Jun-2023 12:00 AM

Schedule End Time

01-Jun-2023 01:00 AM

Schedule Duration (In

60

PM Checklist

Preventive maintenance is the act of performing regularly scheduled maintenance activities to help prevent unexpected failures in the future.

inSis suite

Maintenance Logbook

ABC Oil Company

⚙️

?

← Back

Summary

Check List

Asset Details

Asset Views

Action Summary

Maintenance Logbook - 20P101A(L81_A1121)

<

>

📄

📥

🔄

↺

✖

Status : Issued Approval Status : None

Jaajl Technologies

Equipment Name:20P101A

Operator: -NA-

SIC: -NA-

12-Feb-2024

Magnetic Pump PM Check

Activity	Activitynumber	Status	Remarks
Check points as per LLF sheets	0	OK	
Check condition of impeller housing	0010	NA	
Check condition of magnet assembly	0020	NA	
Check condition of can assembly	0030	NA	
Check tightness of pump and motor foundation bolts	0040	OK	
Check impeller for wear	0050	NA	
Check condition of shaft	0060	NA	
Check condition of sleeve	0070	NA	
Check bearing condition	0080	NA	
Check Pipe connection	0090	OK	
Check condition of suction and discharge Valve	0100	OK	
Check pump for any Corrosion	0110	OK	
Clean the pump	0120	OK	
Trial run to check for any abnormality	0130	OK	

Go to Top

Deviation Report

inSis suite

Maintenance Logbook

ABC Oil Company

Deviation Report

Select Asset

Select Logbook

02-Jun-2023

10-Jun-2023

Show Day wise ☒ ON ☐ OFF

Show All ☐ OFF

Go

Asset	Description	Logbook	Date	No.of Logsheets	Total CheckPoints	Total Ok	Total NotOk	NotOK Perc.	
ABC Oil Company	ABC Oil Company	Checklist LogBook	05/Jun/2023	1	6	2	4	66.667	
ABC Oil Company	ABC Oil Company	Checklist LogBook	06/Jun/2023	1	6	3	3	50	
ABC Chemical Company	ABC Chemical Company	Checklist LogBook	05/Jun/2023	1	6	2	4	66.667	
ABC Oil Company	ABC Oil Company	Checklist LogBook	09/Jun/2023	1	6	2	4	66.667	

1

20 items per page

1 - 4 of 4 items

After SET COMPLETION it will generate deviated reports automatically for the respective assets

Easily track the compliance of asset to predict the life of asset

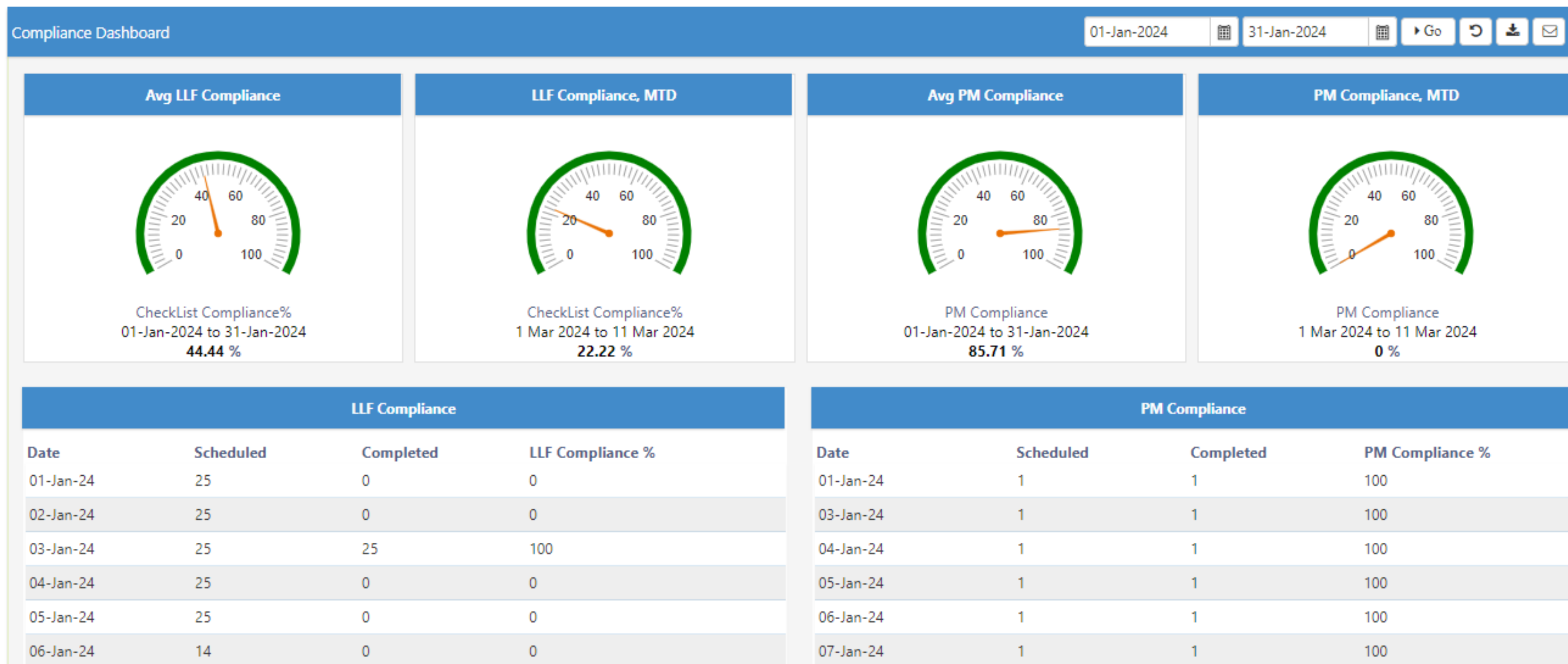
Abnormality Report

Abnormality Report can be generated for easy analysis & take a preventive maintenance action

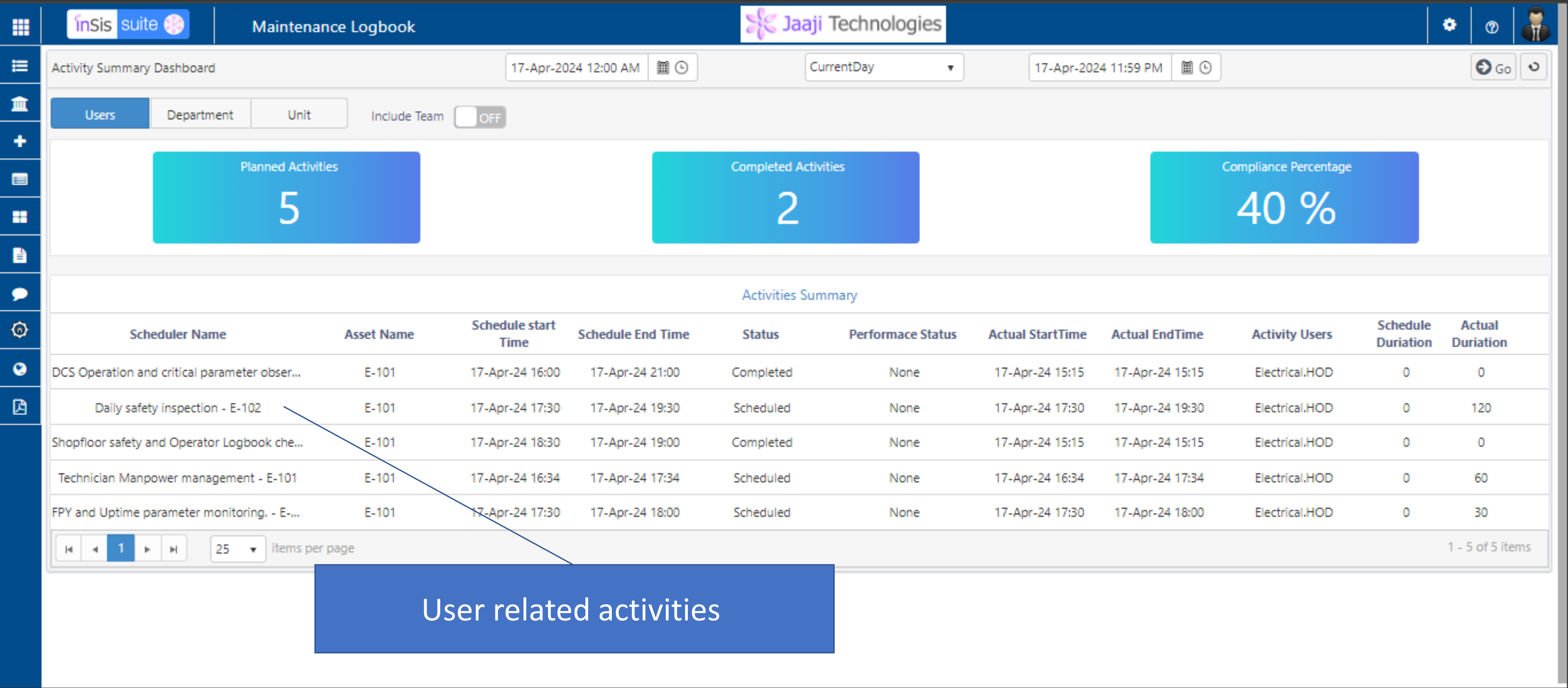
Self-configurable & user-friendly comments management section

Powered by inSis® SolutionSpace™ from Jaaji Software Technologies Pvt Ltd

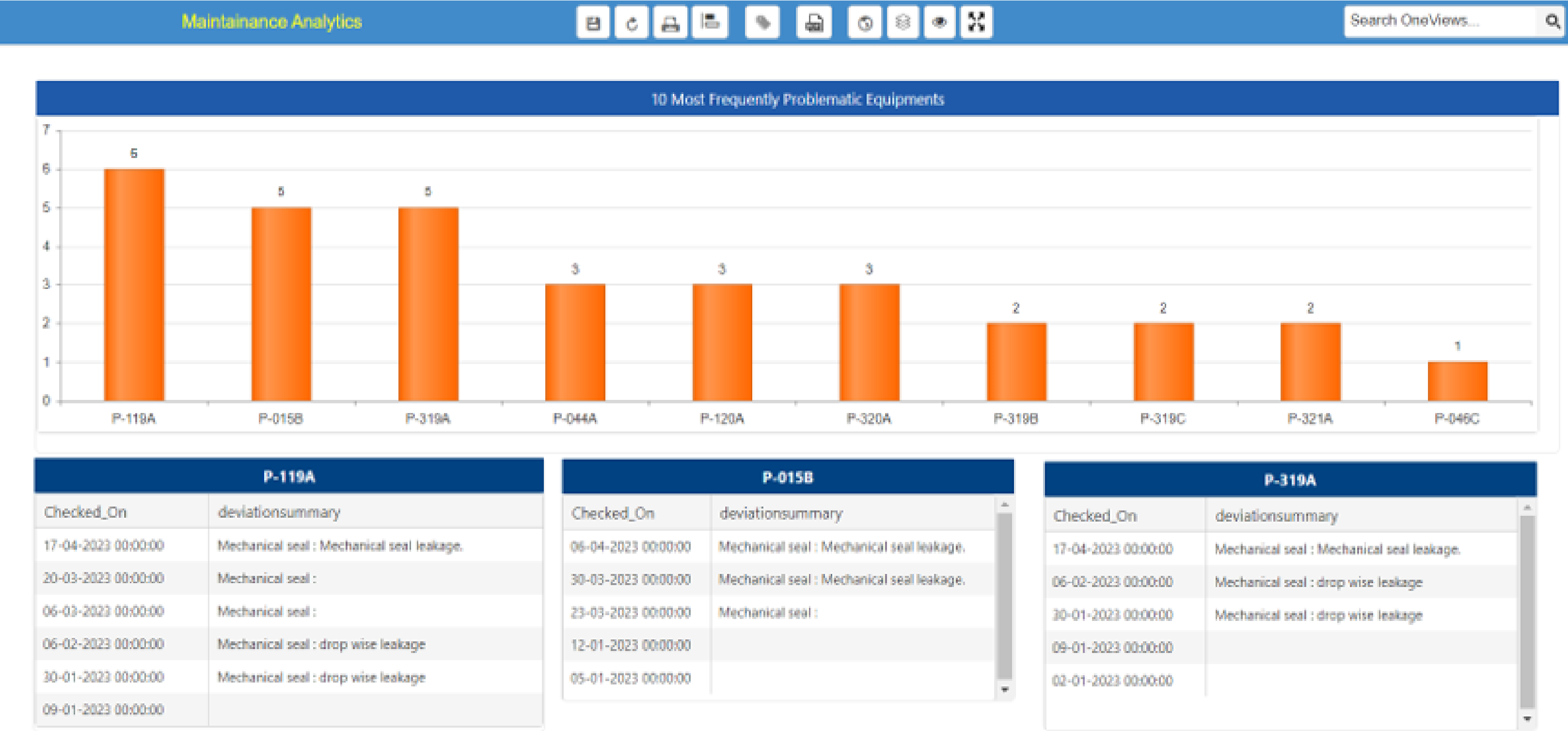
Automated Report of PM compliance



Daily Work Management (DWM)

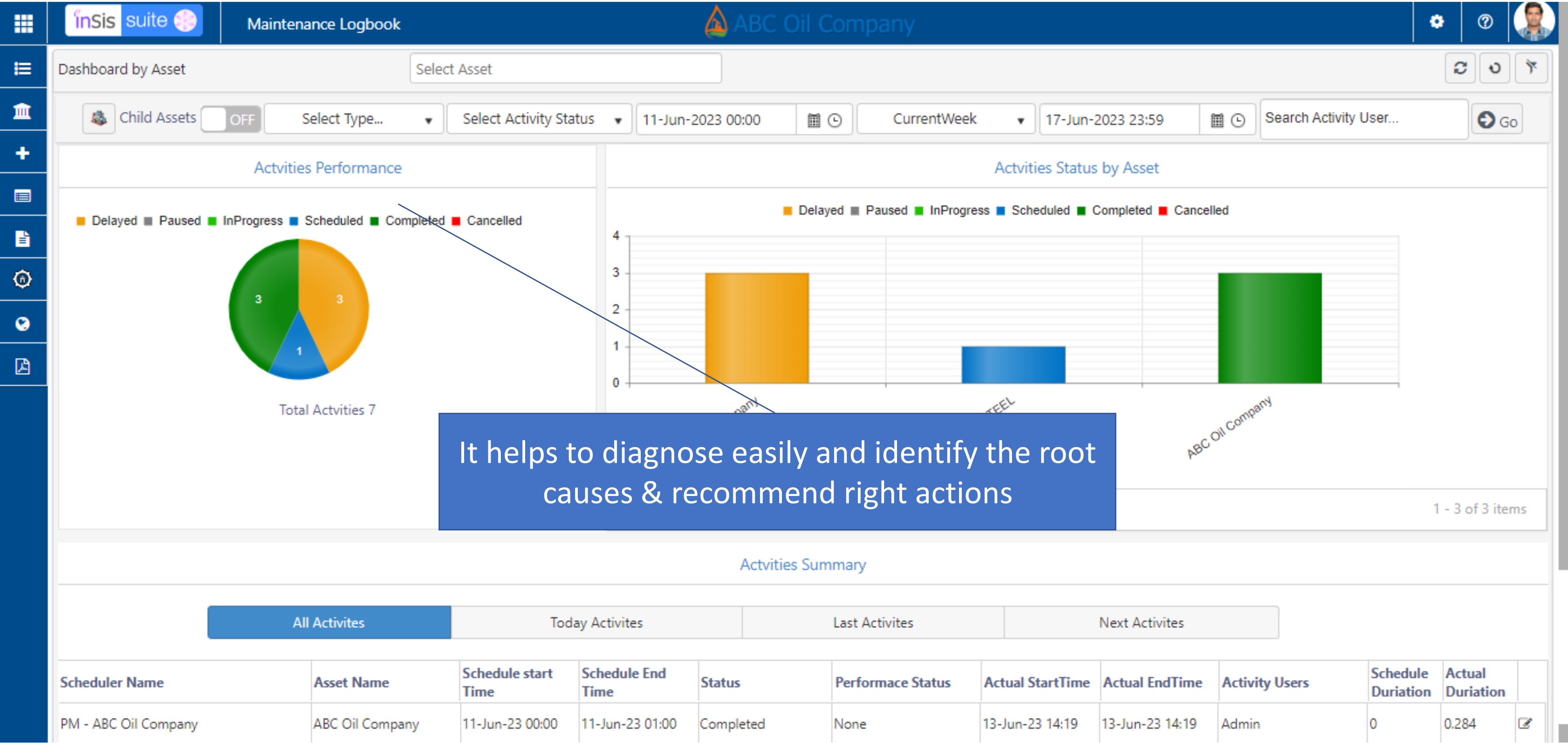


Most Problematic Equipment



Contextual Analysis

Easy to observe patterns and any anomalies in the energy consumption, vibrations, Oil temperatures etc...,



LogBooks & Logsheets Management

Role-based access of logbooks. Select Logbook>Logsheets>Area/Asset to start logging

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

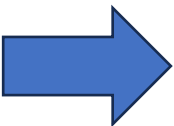
Mumbai Plant

ABC Power Limi...

Hyderabad Plant

Test Oct 10

ABC Oil Company



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

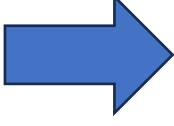
None

Approving Person

Operations Manager

HandOverStatus

None



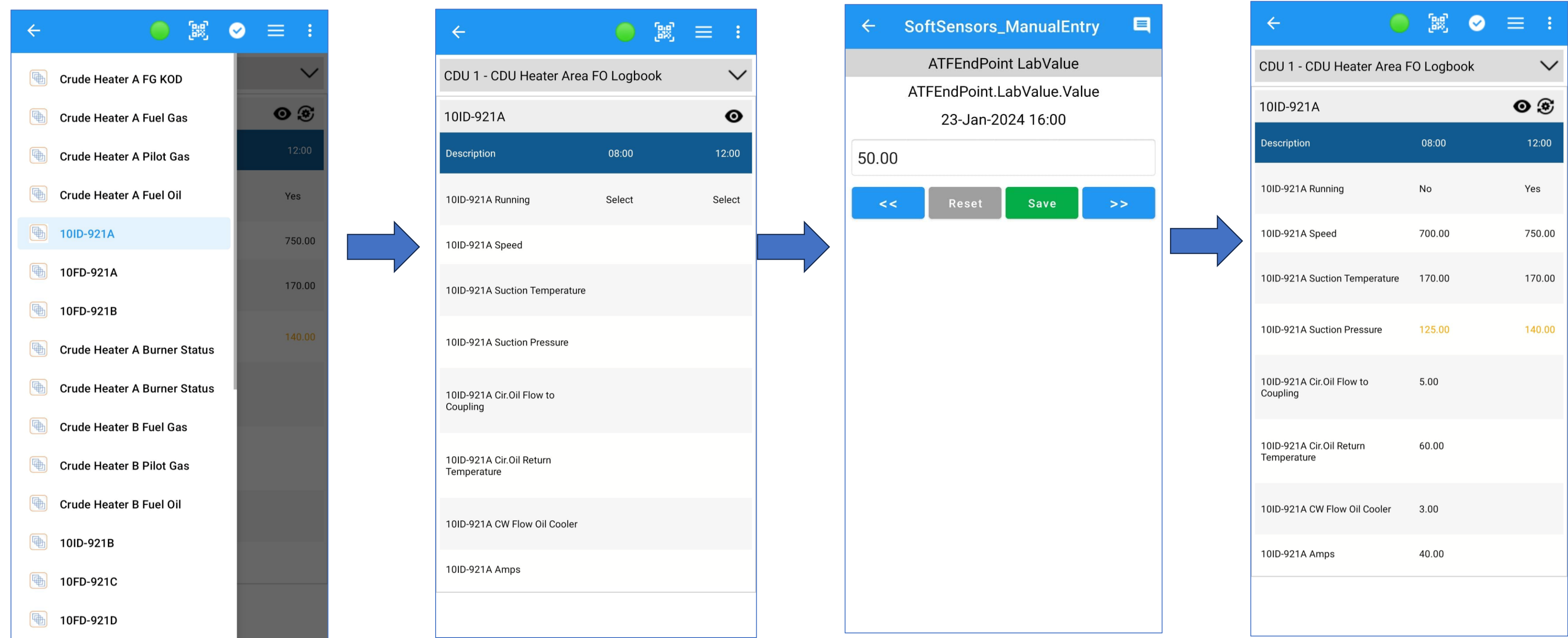
Hyderabad Plant - ABC Power Limited

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	

Data Entry

Select Area/Asset by list or QR/NFC. Select Parameter and enter one after another in quick and easy way.
After successfully entering data for one widget, the user can proceed to the next widget or interval by clicking the confirmation button.



QR Code/NFC Scanning

Users can access the relevant widget through QR Code or NFC scanning.

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	



QRScannerActivity

CLICK HERE TO SCAN QR CODE

TagName

23-Jan-24 1:34 PM

V...

PROCEED

Activity Widgets

Detailed shift activities can be entered and tracked effectively.

-  Shift Man Power
-  Simple Notes
-  Default Notes
-  Activity Widgets
-  Asset Comments
-  Tank Transfers
-  Pump Pressure
-  All
-  Show All

← Activity Details

Demo Logbook_CRU

Asset

Vizag Plant

Activity/Remarks *

Crude Pump Maintenance

StartTime

24-Jan-2024 00:00

EndTime

25-Jan-2024 12:00:00

Status

Inprogress

Value

SAVE

RESET

Vizag Plant - Demo Logbook_CRU

Activity Widget

Asset Name	Activity/Remarks
Vizag Plant	Crude Pump Maintenance
Start Time	End Time
24-Jan-2024 00:00	25-Jan-2024 00:00
Duration	
0	
Status	
Inprogress	

Asset Comments

Asset based activities can be entered and tracked effectively

-  Shift Man Power
-  Simple Notes
-  Default Notes
-  Activity Widgets
-  Asset Comments
-  Tank Transfers
-  Pump Pressure
-  All
-  Show All

Asset Comments

Asset

Cooling Tower

Comment

Check and adjust suction screens,belts and pulleys on a weekly basis

Response

SAVE

DELETE

←

ABC Pharma Company - ABC Chemicals

✓

Asset Comments

⊕

AssetName	Comment	CommentUser
Cooling Tower	Check and adjust s...	Admin

Asset Based Instructions

Shift Engineers/Managers can provide instructions directly to operation in a convenient way.

← Instructions

ABC Chemical Company

Unit

Reactor

ABC oil Company

F301

CDU

← ABC Chemical Company

Daily Instructions

Standing instructions

← Instructions

17-Oct-2023

Maintenance

1. Plan, outline, and gather data Write the first draft Get feedback and finalize the manual Update the manual regularly

Safety

1. STAY ALERT - and stay alive. The more awake a worker is, the less likely he or she is to get hurt. If you are unsure how to operate equipment or perform a task, ask your supervisor. Don't guess and muddle through. Make sure you know in advance the correct, safe way to do it.

Remarks/Others

Prepared By Administrator Jaajitech

Approved By Administrator Jaajitech

ReadBy

Shift Handover

Set Complete

CDU 1 - CDU Area FO Logbook		
10P-907A		
Description	08:00	12:00
10P-907A Running Status	Yes	No
10P-907A Discharge Pressure	16.00	16.00
10P-907A Current	34.00	34.00
10P-907A CWS	Yes	No
10P-907A CWR	No	Yes
10P-907A Warm Up Condition	Yes	No
10P-907A Lube Oil Level	NOR	LO
10P-907A Bearing Temperature	NOR	NOR
10P-907A Seal Pot Pressure		45.00
10P-907A Seal Pot Level	23.00	45.00

Shift Handover

CDU 1 - CDU Area FO Logbook		
10P-907A		
Description	08:00	12:00
10P-907A Running Status	Yes	No
10P-907A Discharge Pressure	16.00	16.00
10P-907A Current	34.00	34.00
10P-907A CWS	Yes	No
10P-907A CWR	No	Yes
10P-907A Warm Up Condition	Yes	No
10P-907A Lube Oil Level	NOR	LO
10P-907A Bearing Temperature	NOR	NOR
10P-907A Seal Pot Pressure		45.00
10P-907A Seal Pot Level	23.00	45.00

CDU 1 - CDU Area FO Logbook		
10P-907A		
Description	08:00	12:00
10P-907A Running Status	Yes	No
10P-907A Discharge Pressure	16.00	16.00
10P-907A Current	34.00	34.00
10P-907A CWS	Yes	No
10P-907A CWR	No	Yes
10P-907A Warm Up Condition	Yes	No
10P-907A Lube Oil Level	NOR	LO
10P-907A Bearing Temperature	NOR	NOR
10P-907A Seal Pot Pressure		45.00
10P-907A Seal Pot Level	23.00	45.00

Shift Handover

← Shift Handover Details

Demo Logbook_CRU

StartTime	GivenTime
24-Jan-2024 15:55	24-Jan-2024 15:52
AcceptedTime	Given By
Given To	Accepted By
Reviewed Logsheets	Given Comments
YES	
Accepted Comments	Incharge
Inch.Given Comments	Inch.Accept Comments

Administrator Jaajitech

All Parameters found ok

Administrator Jaajitech

☐ Show incharge comments

Complete Handover

Provide Shift Handover

← Shift Handover Details

Demo Logbook_CRU

StartTime	GivenTime
24-Jan-2024 15:55	24-Jan-2024 15:56
AcceptedTime	Given By
	Administrator Jaajitech
Given To	Accepted By
Administrator Jaajitech	
Reviewed Logsheets	Given Comments
YES	All Parameters found ok
Accepted Comments	Incharge
	Administrator Jaajitech
Inch.Given Comments	Inch.Accept Comments

Enter SHO Comments

☐ Show incharge Accept comments

Accept Handover

Accept Handover

← Shift Handover - Log Sheets

AreaLogbook

Hyderabad PlantABC Power Limited

SHO Start TimeSHO Given Time

23-Jan-2024 11:4523-Jan-2024 11:46

Logsheet DateShift

23-Jan-2024SHIFT B (14:00 To 22:00)

OperatorIncharge

Administrator JaajitechOperations Manager

LogSheetStatusHandOverStatus

IssuedNone

AreaLogbook

Hyderabad PlantABC Power Limited

SHO Start TimeSHO Given Time

23-Jan-2024 11:4523-Jan-2024 11:46

Logsheet DateShift

23-Jan-2024SHIFT A (06:00 To 14:00)

OperatorIncharge

Administrator JaajitechOperations Manager

LogSheetStatusHandOverStatus

CompletedAccepted

AreaLogbook

Mumbai PlantABC Power Limited

SHO Start TimeSHO Given Time

23-Jan-2024 11:5023-Jan-2024 11:50

Logsheet DateShift

22-Jan-2024SHIFT C (22:00 To 06:00)

Shift Handover Summary

←

1601-MP-CAP-LN1-BLWR - APPNOV30

Acknowledge Details

ACKNOWLEDGE

Comments Summary

The operator comments can be centralized within the comments summary, allowing users to search for comments based on criteria such as date, status, category, asset, and user. This can be done using the filter option in the top menu bar. By default, the comments from the last three shifts will be displayed.

←

•

☰

ShiftHandOver Summary

Brine Chiller - BRINE

Current Block Average

Tags

FI1501.PV | Average

FI1502.PV | Average491.3

FI1503.PV | Average4.71

FI1504.PV | Average86.00

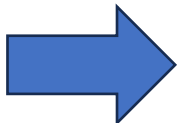
FI1505.PV | Average90.62

FI1506.PV | Value18.20

FI1507.PV | Value233.59

FI1508.PV | Value23.91

FI1509.PV | Value77.73



←

✓

↺

Last3Shifts

Select Status

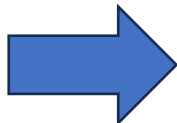
StartTime1/24/2024 10:00:00 PM

EndTime1/25/2024 6:00:00 AM

Select User

Select Asset

SelectCategory



Pump Area FO Logbook

All routine samples sent to LAB.

1/23/2024 12:53:01 PM

User: rchekka

0 Reply(s)

Stripper bottom and light naphtha doctor test result found negative

1/23/2024 12:53:09 PM

User: rchekka

0 Reply(s)

CBD clamp near 32P006 area's LEL check found Nil.

1/23/2024 12:53:16 PM

User: rchekka

0 Reply(s)

All LG/LT are matching except for 30V006 boot and 32V001 boot.

1/23/2024 12:53:21 PM

User: rchekka

0 Reply(s)

Standing Instructions-NHT CCR

Last Updated Time : 29-Mar-2023 00:00

Whenever 32P001 disch temp 32Ti005 high temp alarm comes, then a) Cross check with 32Ti001 (at sour naphtha inlet) and if that is also increasing then inform CDU/PIT to lower sour naphtha temp and b) check at our B/L for any abnormal lineups causing higher sour naphtha temp c) if 32Ti001 normal then check 32P001 discharge temperature with temp gun and if lower side then 32Ti005 by instt. If actually goes high then pump damage may occur. If not controllable then pump to be stopped and cooled

Whenever 32P001 disch temp 32TI005 high temp alarm comes, then a) Cross check with 32TI001 (at sour naphtha inlet) and if that is also increasing then inform CDU/PIT to lower sour naphth

Instructions Management

insis suite

Operations Logbook

Home

Settings

Help

Profile

Global Settings

Shifts

Export/Import

Tanks

Materials

Tank Transfers

Activity Type

Activity Category

Asset Security

Maintenance Logbook Settings

Instruction Group

Instructions Group Management

Instruction Group List

NHT CCR

CDU 1

ISOM

VGOMHC

DHDT

HMU-1

FCCU

CDU 2

HMU-2

Mini HMU

DHDS

Base SRU

DCU

Utility-2 Base

PIT

SRU-1

CPP

Utility-1 EXP

Utility-2 EXP

Name *

Title

Asset *

Instruction Type *

Document Number

Header

Footer

Daily Instructions

NHT/CCR AM Instructions

Reactor

Temporary

NAYA/NHTC/NHTC/R/033;2.0

AM Instructions

AM Footer

Save

Delete

AddChild

Share InstructionGroup :

Users

UserGroups

Roles

Process.Manager

Can Edit

Can EnterData

Share

Sharing Details

Resource Name	Type	Can Edit	Can EnterData	Remove
compny2	User	☐	☐	

Engineers can share instructions as per-asset basis and control edit access for both daily and standard instructions.

Engineer Summary View - Comments

All the Operator Comments Can be Consolidated in the Comments Section for the engineer. Every Comment Can be Categorized, Assigned to Others and Status Can be Tracked. Corresponding Users Can Also reply

The screenshot displays the InSis suite Operations LogBook interface. The top navigation bar includes tabs for Summary, Log Sheet, Notes, Instructions, and Shift Handover. The left sidebar shows an Asset Browser with a tree view of assets including CDU1, SRU, NHT, VGOHDT1, VGOHMC, DHDT, DHDS, DCU, HMU1, ISOM, FCCU, CDU2, HMU2, CCR, CPP, MINI HMU, UTILITY, ARU SWS, ARU SWS1, SRU1, Tanks, SRU2, My Asset, and Asset10. The main area shows the Comments Feed for PanelOfficerFinal, filtered by CurrentWeek. The feed lists comments with details such as the asset (ARU SWS1), date (21-Jan-2020 03:40 PM), category (Operation), and action (By:Production). A 'New Comment' dialog is open, showing fields for Category (Operation), Asset (ARU SWS1), Comment Time (1/22/2020 10:24 AM), and a text area for the comment. The dialog also includes a rich text editor with formatting options and an image upload section.

Comments can be searched based on “Content, Date, Status, Category, Asset, Usernames” using filter option from top menu bar. BY default, last3shifts of comments will display.

Action Summary for Maintenance Teams – Closing the loop of identified issues in field

All the actionable comments in the Logbook are separately listed and tracked by Maintenance teams for closing the loop of the abnormal situations for timely correction of the same

Operator Comments – In Logbooks

Default Notes



Maintenance

Operation

Pending

Action By:Production



Maintenance Work

Operation

None

Action By:Production

12-Oct-2023



Administrator

Action Summary – For Maintenance Teams

inSis suite

Maintenance Logbook

Summary

Check List

Asset Details

Asset Views

Action Summary

Action Summary

Select Asset

01-Nov-2023 00:00

03-Nov-2023 00:00

Go

Pump casing damage

02-Nov-2023 11:29

Administrator Jaajitech

Action Time :02-Nov-2023 00:00

Actionnee : Process Manager

Action target Date : 02-Nov-2023 00:00

Pump lubricant Levels low

11:26

Administrator Jaajitech

Action Time :

Date :

Pump Under Maintenance

11:25

Administrator Jaajitech

Action Time :

Date :

1 - 3 of 3 items

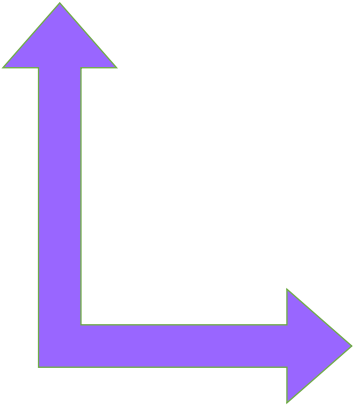
Action Summary Details

Action Target Time02-Nov-2023 00:00

ActionneeProcess Manager

Action Time02-Nov-2023 00:00

Save



Summary Report Day/Shift

The system will automatically generate reports, and operators can view historical data using various visualizations such as tables, line charts, histograms, and stability charts.

Summary

Logbook

Comments

Instructions

Shift Handover

Report

Report - HMU-2 PO Logbook

Infoviews

Start Time 25-Mar-24 06:00 AM

End Time 26-Mar-24 06:00 AM

Go

Refresh

Print

Export

Feed Section Area

Table

Trend

Histogram

Stability

Description	Tag Name	Units	Operating Range	07:00	11:00	15:00	19:00	23:00	03:00
LPG FEED (P-101A/B/S DISCH) PR	152PI0129	kg/cm2	0-105	16.14	17.18	18.14	16.95	16.25	16.07
NAP FEED (P-102A/B/S DISCH) PR	152PI0149	kg/cm2	0-105	9.05	10.45	11.28	9.29	8.11	7.83
NATURAL GAS FLOW FROM B/L	153FIC0100	kg/cm2	0-85500	29183.88	29792.83	29410.56	27497.94	26722.46	26127.00
LPG FEED FLOW(152 P-101)	153FIC0129	kg/cm2	0-35000	0.00	0.00	0.00	0.00	0.00	0.00
NAP FEED FLOW(P-102A/S DISCH)	153FIC0149	kg/cm2	0-35000	0.00	0.00	0.00	0.00	0.00	0.00
NATURAL GAS PR AT B/L	153PI0100	kg/cm2	0-75	35.77	35.52	35.59	35.70	35.79	35.79
NATURAL GAS TMP AT B/L	153TI0100	kg/cm2	0-150	49.17	54.82	57.38	52.98	50.99	50.67

IOCL, Orissa Paradip Refinery - ERU/EG units (Through Yokogawa)



CHALLENGES

Real-time monitoring & calibration of online analyzers, Data analytics, integrating both process and maintenance data seamlessly.

OFFERED SOLUTIONS

Analyser Management System (AMADAS) – Dashboards, PFD, KPI Management, Tasks, Reports & Historian

CONCLUSION

Comprehensive management of Analyzers and their Increase Availability & Reliability

inSis suite

Scope of Work

- Tags/Parameters – 5000
- Analyser Shelters – 6
- Analyzers – 33
 - Gas Chromatograph - 17
 - Field Analyzers – 7
 - Mass Spectrometer – 1
 - UV Analyzers – 3
 - Nox - 5
- Analyser Shelter Dashboards – 6
- Individual Analyser dashboards – 33 nos
- DCS Integration – Read & Write
- Validation & Calibration
- PLC Integration - 7

Benefits

- A record of calibration and maintenance activities performed on the analytical instruments
- Unlimited Data storage from DCS/GC/Analyzers/PLC's /Spectrometers and brings to central AMADAS LAN
- Anomaly detection & generates alerts when certain thresholds or conditions are met
- Provides a range of data analytics including customized reports, dashboards, and alerts

Departments & Locations

- Covered Departments: Performance Monitoring, Operations & Maintenance

Benefits

Availability of an Improved reliability analyzers & Improves Process control

Optimize Operational Performance, Improves Operational Safety

Typical ROI is less than 10 months & up to 80% savings in time

Improves asset life span & Faster time to Respond
100% Data Accuracy

Reduces manpower for maintenance in remote areas

CHALLENGES

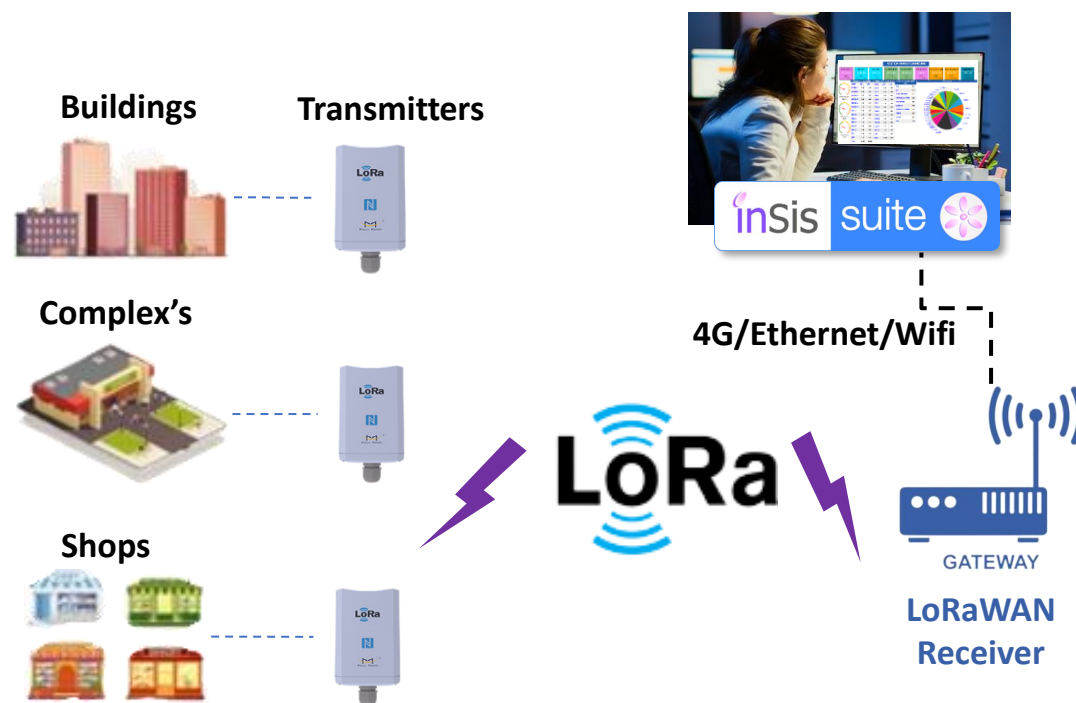
Lack of availability of real-time data for power consumption and monitoring

SOLUTION

- Energy Management Solution (EMS) through Lorawan Gateway

CONCLUSION

Monitor real-time data on mobile /web to make prompt decisions that leads to increase the incentives & profits



Benefits

Faster Deployment

Low Power Consumption

Longer Range

Simple Architecture

High Security

Scope of Work

- Associated in **2023**
- Successfully Implemented Smart Energy Monitoring System using LoRaWAN
- Tags – 300 tags
- Data Analytics - 200
- Dashbaords – 15 EMS
- Reports – 3
- Alerts & Notifications – 25
- Trends – 25
- PFD/SLD - 1
- Hardware Supply & Installation – Server, LoRa Wan, Cables like LAN, RS485, Racks, etc.,

Integrations

- Energy Meters – 30 Ems
- 5 clusters
- Make & Models of Ems Meters
 - AE-900
 - Neptune 200
- LoRa Wan Nodes - 11
 - F8L10T
- LoRaWan Gateway – 1
 - F8L10GW
- Meters Communicated via
 - Modbus RTU (RS485/RS232)

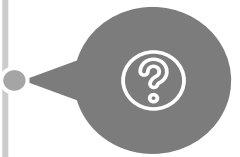
Case Studies

A Leading Refinery



OBJECTIVE

NexGen **Refinery** MIS Portal to drive Performance, Efficiency



OFFERED SOLUTIONS

Refinery Performance Monitoring System (RPMS), Real-time data integration, Inventory Dashboard, Energy KPIs, Blending Analytics & Automated reports and Dashboards for Senior management



CONCLUSION

Reliable and Accurate data consolidated from multiple data sources increased the operational efficiency & productivity



BENEFITS

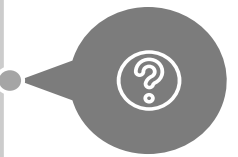
~ 5% impact on Hydrocarbon inventory, ~90% time saved in analytics
~50% time saved through collaboration

A Leading Chemicals Company



OBJECTIVE

Drive Digital transformation across multiple sites in the areas of Operations, Maintenance and Quality for a **Specialty Chemicals company**



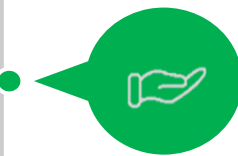
OFFERED SOLUTIONS

Centralized Historian, Digital Logbooks, Digital Checklists, Kaizen workflows, Automated Reports,



CONCLUSION

Improved visibility of data set the foundation for valuable analytics; this is expected to help the organization in their expansion plan



BENEFITS

~ Single system of record
~5 to 7% improvement in process yield
~30% time saved through collaboration

Thank You

Join hands to help industry get more
productive and profitable !

Houston Office

 Telephone

+1-281-889-4529

 Address

1226 Ryann Rose Creek Ln, Katy, TX 77494

 Website

www.jaajitech.com

Hyderabad Office

 Telephone

+91 99492 88834

 Address

Phase 7, KBHP, Hyderabad, Telangana, India 500072

Ongole Office

 Telephone

+91 8897698106

 Address

D. No: 37-76-37, Mangamuru Road, Ongole, AP, India 523002

