

SYSTEMATICALLY INTEGRATED MAINTENANCE SOFTWARE (SIMs) AND SMART MAINTENANCE

## SYSTEMATICALLY INTEGRATED MAINTENANCE SOFTWARE (SIMs)

# **KEY** BENEFITS



**Systematically Integrated Maintenance Software (SIMs) and Smart Maintenance** is the software for preventive maintenance process that has been continuously developed by the programming team specialized and experienced in utilizing previous maintenance programs since 1980. The ultimate purpose of SIMs is to enhance the overall capability of machines by systematic maintenance software. And the key benefits of using SIMs can be summarized as follows:

- Expense reduction from unplanned breakdowns
   Online monitoring to help early detecting failures
   Automatic report by using mobile applications
   Time reduction from manually generating reports
- Automatically maintain machine records and easy to access database
- Web-based system that makes SIMs easy to be installed and used
- Sync with existing Enterprise Resource Planning (ERP) system
- Designed to support Total Productive Maintenance (TPM) concept

# **KEY** FEATURES

## Equipment

- Master plant data
- Classification and specification
- Part & Bill of Materials (BOM)
- Stock requisition
- History logging
- Machine ranking
- Machine overview by Job Request, Fault Event, PM, Part, etc.

#### Plan Maintenance (PM)

- PM Master/ PM List/ Route List • Time Based/ Meter Based
- Assign FM/ WI/ Resource
- Automatically generate job request
- PM scheduled calendar
- Daily/ Weekly/ Monthly/ **Yearly report**
- Alarm report

Job Request (JR)

### • Job request work flow

- Job request tracking
- Job request form
- Barcode printing
- Job pending report
- Machine stop logging • Root cause analysis and CEI
  - •Automatically update machine running hour meter

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**Plant Performance (PP)** 

- Daily/ Monthly/ Yearly report
- KPI reports: RF, MAF, MTBF, **MTTB**
- Continuously run summary report
- CEI/ Chronic
- Link ISO Document

- Manage master plant data: Equipment, Inventory, Employee, Organization, User Group Permission, Contractor, etc.
- Assign equipment ranking
- Group equipment by Plant, Department, Sub Department and Machine Group
- Assign part and create BOM from inventory

**Module: Equipment** 

- Upload multiple documents, drawing, flow sheet and picture
- Equipment history logging
- Summary view of each equipment: Job Request, Fault Event, Plan Maintenance, Drawing and Parts

### Module: Plan Maintenance (PM)

- •New workload concept from 3 PM data types: PM Master, PM List and Route List
- Maintenance planning with Time Based/ Meter Based
- Assign work instruction, supervisor, lubricant and tools
- Create Master Calendar of PM & Overhaul Planning Data
- Create Current Week & Next Week PM Calendar
- Create next week workload check sheet for supervisor of each department
- Automatically generate Job Request for specific PM
- Impact/ Non-impact of postponed PM lists
- Automatically update machine meter from PP Module
- PM detail history logging and uploading multiple documents

![](_page_3_Figure_50.jpeg)

![](_page_3_Figure_51.jpeg)

![](_page_3_Figure_52.jpeg)

![](_page_3_Figure_53.jpeg)

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Workload Check Sheet

![](_page_3_Picture_56.jpeg)

![](_page_4_Picture_0.jpeg)

#### Module: Job Request (JR)

- Job request tracking with 6 status: WAPPR, APPR1, APPR2, FINISH, COMP, CAN work flow
- 2 sections job request form for delivery premise
- Upload multiple documents
- Contractor cost estimate and comparision
- Barcode Printing
- Job request searching
- Workload summary report
- Job pending report

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#### Job Request Tracking

![](_page_4_Figure_14.jpeg)

![](_page_4_Picture_15.jpeg)

#### Module: Plant Performance (PP)

- Fault event logging
- Analyze chronic problems by defining fault code and standard text
- Define On Peak and Off Peak Calendar (different electricity charges)
- to separate maintenance performance
- Upload multiple documents
- KPI reports: RF, MAF, MTBF, MTTR and Running hour
- Machine continuously runs timeline

![](_page_4_Figure_24.jpeg)

![](_page_4_Figure_25.jpeg)

![](_page_4_Figure_26.jpeg)

Machine Continuously Runs

## **MODULE:** SMART MAINTENANCE

**SMART MAINTENANCE MODULE** 

![](_page_5_Figure_2.jpeg)

![](_page_6_Picture_0.jpeg)

#### **Module : Real Time Machine Condition Monitoring**

Create Machine Condition Monitoring Dashboard for Online Monitoring and Detecting Early Failures

![](_page_6_Figure_3.jpeg)

![](_page_7_Picture_0.jpeg)

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![](_page_7_Picture_3.jpeg)

![](_page_7_Picture_4.jpeg)

![](_page_7_Picture_5.jpeg)

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![](_page_7_Picture_7.jpeg)

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