

# Gilard Application Programmers



**Present**

**G.A.P-OSM™**

**O**perating **S**ystem for **M**anufacturing

The Big Brother of ERP

# Gilard Application Programmers

Gilard Electronics Pvt.Ltd. is a 57 year old Manufacturing Company catering to the best in class customers like Toyota, Maruti, Ford, Bosch, Denso etc and has been using its in-built software solution since the past 31 years.

The same software, in its new avatar that is Browser based, cloud based and accessible from anywhere in the world is now available for implementation for other Industries through Gilard Application Programmers LLP, a group Company of Gilard.

The Solution is much more than an ERP and has been named by us as OSM (Operating System for Manufacturing).



Operating system for Manufacturing is specially developed for the Manufacturing Industries using the Domain expertise of Manufacturing, Good Systems for Quality and best Business Practices gathered by our team over the span of 50 years.

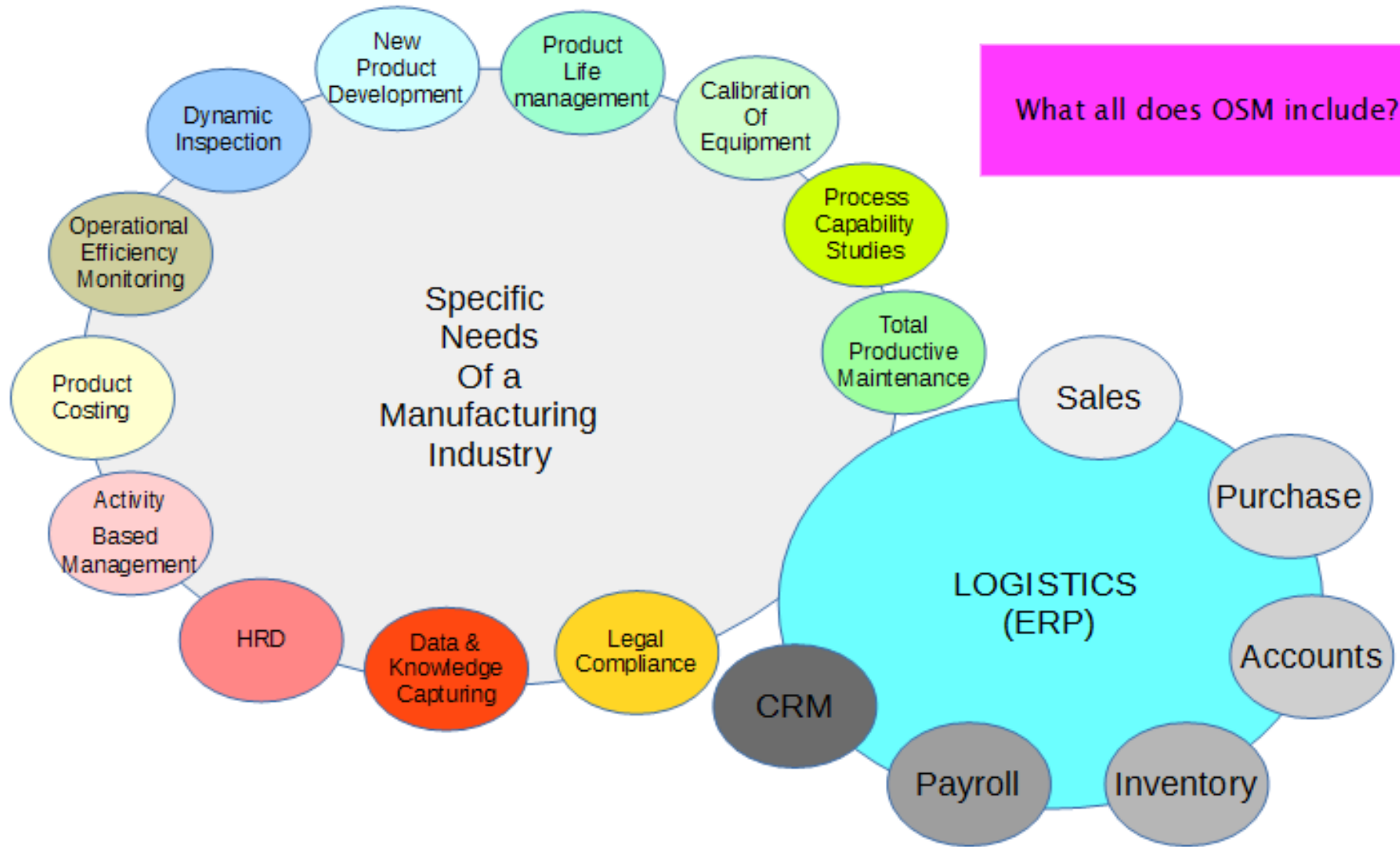
### **G.A.P OSM :**

- 1) Is Validated thru successful implementation.
- 2) Covers all the Primary, Secondary and Tertiary Processes of Manufacturing Industry.
- 3) Can be applied to different industries and can also be customized according to customer needs.

# Modules of G.A.P OSM

Sales Management	Purchase Management	Inventory Management	Finance & Accounts
New Business Development	New Product Development	Product Life Management	Manufacturing Controls Management
Human Resource Development	Payroll & Legal Compliance	Dashboard	Knowledge Capturing
Quality Assurance	Incoming Quality	Pre-Despatch Inspection	Calibration and MSA studies
Total Productive Maintenance	Document Control	Asset management	Production Monitoring and Review

What all does OSM include?



# Sales Management

- Pricing Management (includes Product Costing and PQA)
- Integration with Other Modules
- Real-Time Inventory Visibility at different levels and locations
- Controls the credit limit of Customers
- Sales and other business teams can communicate
- Document Management (Sales Orders, Contract Documents, Invoices etc.)



# Finance Module

- Financial Dashboards, Reporting and Analytic
- Complete Order-to-Cash and Procure-to-Pay Work flow
- General Ledger (Accounts Payable, Fixed Asset Management)
- GST Reports
- Sales Invoice and Vouchers
- P& L Accounts
- Tour and Travel Bills



# New Product Development

- ➔ From Preparing of Part List/BOM to decision on Make or buy. Full system based on APQP.
- ➔ Function Study based on Specifications, DVP, Regulatory and Safety – followed by QFD and DFMEA.
- ➔ Control of Drawings and Inspection Sheets
- ➔ Developing and controlling the Manufacturing Process, including PFC and skill Matrix
- ➔ Auto Preparation of the PPAP documentation
- ➔ Sequence the define, design, develop and deploy process along with digitization





# Inventory Management

- Helps to create the master of every item: including Source , Cost and batch traceability.
- Real time status of every item with quantity in-hand: in Stores ,Under Inspection, in Transit and in WIP.
- Monitor and improve the ITR (Inventory Turn Ratio)
- Reports and analysis which help to maintain the optimum stock level. Dynamic system to update Re-order Levels based on consumption patterns.
- Can Connect to stores and warehouses of the company at different locations.



# Dashboard Module

This Module is just like a mirror of an organization and

1) here you can get information of all modules and related department.

2) For detailed information you just need to click on particular module and will help you to grab deep information.

3) Important thing is that this module updates on real time basis.



# Purchase Management

- Helps to procure the raw material and stocks by running a MRP for the month based on Orders in Hand and forecasting based on trends.
- Proper communication with vendors and suppliers thru auto generated e-mails.
- Helps to create purchase inquiry, purchase quotation and Purchase orders
- Ensures that the procured material and stocks are of acceptable quality and quantity.
- Helps to procure the stocks at best price and on time.
- Controls the Quality status of Suppliers viz their Quality Approvals and periodic Audits.



# Product Life management

- This module is closely related to manufacturing and production module
- This module has all data relevant to machine and production
- Ensures the full control on production as designed on the floor



# Payroll Management

- ➔ From Bio-Metric punch to calculation of wages payable and printing of monthly payroll and payslips
- ➔ It includes calculation of Weekly Offs, Casual Leaves, Earned Leaves etc and also the Overtime or Compensatory Off to be given.
- ➔ It calculates ESI,PF, Advances deduction if any.
- ➔ Enabled to transfer the entire Company payroll payments to individual Employees by uploading an auto-created .csv file to the bank thru their e-payments mode.
- ➔ Annual computing for Earned Leaves to be credited and Bonus to be given



# HRD Management

- From creation of Functional Chart and Job Descriptions to generating Organization Chart
- Interview and Selection of Candidates
- Recruitment, Probation and Confirmation of Employees
- Training, Skill Development, Activity List and monitoring .
- PMS with KRA / KPI monitoring and scoring
- Grievance Handling and Suggestion Scheme monitoring
- Conducting Employee Satisfaction Studies and Behavioral Competency studies



# TPM

- ➔ Master List for Machines, with their basic Information and Historical data of Maintenance / Breakdown
- ➔ Module for Preventive Maintenance ensures the proper running condition of all machines
- ➔ and consumption of electricity along with other necessities
- ➔ System for communicating, thru auto-SMS, breakdown and immediate response along with monitoring of MTTR, MTBF.
- ➔ Reducing TTR by ensuring availability of spare parts and defining the authority and responsibility of the Service personnel



# LAB – Control of Test & Measuring Equipment

- Master List for each and every Inspection, Measurement and Test Equipment ( Instruments and Gauges ) with their basic Information and Historical data of Calibration and MSA
- Timely reminders thru SMS and e-mails to ensure Calibration status of Instruments





# Quality Assurance

- Tools for conducting Process Capability Studies (cp/cpk)
- Online Inspection, Recording and Reporting for Incoming material or Pre Dispatch Inspection for Out Going Goods.
- Online recording of Inprocess Inspection (Using Electronic Patrol Cards for Product Parameters)
- Online recording of Parameters (Using Electronic LPA for Process Parameters)



# Manufacturing module

- This module take care of all manufacturing activities with issue of raw materials based on BOM data
- Provides the Data and Trained manpower for the process
- Ensures Identification and Traceability of material
- From Receiving the raw material from stores and handing over the Finished Goods to Despatch Stores
- Also perform the Quality function wherever needed



# Asset management

**Asset Management** is designed to maintain control over all of the organization's assets, even if at different locations..

- ➔ This Module is closely related to all departments of the organization.
- ➔ Here we can store all information of every asset with in organization. It also calculates the Gross Block, Net Block and the Annual and the Cumulative Depreciation of each asset
- ➔ Reduces duplication of effort in entry and maintaining asset data
- ➔ Control the cost of spare parts and consumable



# E-Capa- Knowledge Capturing

- This module help the organization to capture ,store and retain all the records,information of all the complaints, improvements, Corrective actions taken in the organization.
- Primarily this module is used for analyzing complaints and deciding Corrective and Preventive Actions.
- Subsequently this is provides a history of all kinds of failures and helps in resolving similar issues in future.
- With this module in place, the knowledge stays with the Company forever and is easily retrievable even long after the employee who had worked on it has left the organization.



# There is more

We also have :

- Employee Portal
- Supplier Portal and
- Customer Portal

to bring our other stake holders on board to share the same database.

## DIGITIZATION AND IOTs for Smart Factory 4.0

- Consultation on IT solutions
- Hardware and Software for the Smart Factory ( using IOTs)
- To learn more, view our presentation on G.A.P-POMS





***Thank you***



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