

Functionality Details of Customized ERP for Sponge / Steel – Manufacturing Sector

-Web based Multi User System

Designed & Developed by – TechnoCratz



1. Module – GATE

Daily Transaction Features:

- Raw Material Handling – Incoming Vehicles
- Items Handling – Incoming / Outgoing
- Empty Vehicle Handling for Finished Products & Others – Incoming / Outgoing
- Utility Machinery Handling – Incoming / Outgoing
- Incoming Materials Handling without Vehicle
- Outgoing Material Handling Without Vehicle
- Gate (2) – Waste Disposal Tracking
- Visitor Management – with Real Time Photo Shoot of Visitors
- Transporter Profile
- Vehicle Profile

Reports:

- Reports of Incoming Raw Material
- Reports of Incoming Item
- Reports of Incoming Empty Vehicle
- Reports of Outgoing Finish Product
- Reports of Outgoing Item
- Report of Incoming Items Without Vehicle
- Reports of Incoming / Outgoing Visitor
- Reports of Incoming / Outgoing Utility Vehicle
- Report of Transporter
- Report of Vehicle

2. Module – Weigh Bridge

Daily Transaction Features:

- Weighment – Incoming Vehicles
- Weighment – Outgoing Vehicles

Reports:

- Reports of Incoming Raw Material
- Report Of Materials Received (Daily / Monthly)
- Report of Time Spent by Vehicle

3. Module – Quality Control

Daily Transaction Features:

- QC of Incoming Raw materials
- Chemical & Physical Analysis of Raw Material (Coal & Ore)
- Screen Analysis of Raw Material & Finished Products
- Tracking Consumption of Raw Material
- Tracking Kiln Operation (Cooler Discharge)
- Tracking Kiln Operation (Product Hopper)
- Tracking Finish Product Loading Details
- Tracking Quality of Finish Product (After Loading)
- Managing B Grade Hour
- Tracking Stock & Despatch by QC Department (Manual Entry)
- Setting of Acceptability Range (Thresh hold values of QC parameters) for Raw Material
- Setting of Acceptability Range (Thresh hold values of QC parameters) for Finish Product

Reports:

- Report of QC For Incoming Material
- Report of Screen Analysis For Raw Materials
- Report of Screen Analysis For Finish Products
- Report of Chemical & Physical Analysis for Raw Material (Coal & Ore)
- Report of Consumption For Raw Materials
- Report of Kiln Operation (Cooler Discharge)
- Report of Kiln Operation (Product Hopper)
- Report of Quality For Finish Product (After Loading)
- Report of B Grade Hour
- Report of Stock & Despatch

4. Module – Marketing / Sales

Daily Transaction Features:

- Finished Product Sale --> Requisition Of Supply To Customer
- Finished Product Sale --> Daily Loading Details
- Finished Product Sale --> Tax Cum Excise Invoice
- Iron Ore Fines Sale --> Requisition Of Supply To Customer
- Iron Ore Fines Sale --> Daily Loading Details
- Iron Ore Fines Sale --> Tax Cum Excise Invoice
- Coal Fines Sale --> Requisition Of Supply To Customer

- Coal Fines Sale --> Daily Loading Details
- Coal Fines Sale --> Tax Cum Excise Invoice
- Customer Profile Management
- Customer Terms

Reports:

- Report of Finished Product Sale --> Report of Requisition Of Supply To Customer
- Report of Finished Product Sale --> Report of Daily Loading Details
- Report of Finished Product Sale --> Report of Pending Delivery
- Report of Iron Ore Fines Sale --> Report of Daily Loading Details
- Report of Iron Ore Fines Sale --> Report of Requisition Of Supply To Customer
- Report of Coal Fines Sale --> Report of Requisition Of Supply To Customer
- Report of Coal Fines Sale --> Report of Daily Loading Details
- Report of Customer Profile

5. Module – Production

Daily Transaction Features:

- Tracking of Raw Material Consumption
- Production Campaign Management
- Tracking of Finished Product (SI) Production
- Tracking & Analysis of QRT Results
- Tracking & Analysis of Shell Temperature
- Tracking & Analysis of ABC Temperature
- Operational Breakdown Handling Process

Reports:

- Reports of Raw Material Consumption
- Reports of SI Production
- Reports of QRT Analysis
- Reports of Shell Temperature Analysis
- Reports of ABC Temperature Analysis
- Reports of Campaign Details

6. Module – Electrical

Daily Transaction Features:

- Tracking of HT Power Consumption(MF-900)
- Tracking of LT Power Consumption (MF-240)
- Tracking of ESP Unit Consumption
- Tracking of DG Running Hours
- Tracking of Water Flow & Water Consumption (at different locations)
- Tracking of Load Data (Kiln Section)
- Tracking of Load Data (Other than Kiln)
- Preventive Maintenance Management --> Daily
- Preventive Maintenance Management --> Weekly
- Preventive Maintenance Management --> Monthly
- Preventive Maintenance Management --> Shutdown
- Screw Compressor Servicing & AMC Management
- DG Servicing & AMC Management
- Electrical Equipment Profile Management
- Work Log Management & Tracking
- Break Down Maintenance Management

Reports:

- Report of HT Power Consumption(MF-900) Report
- Report of LT Power Consumption(MF-240) Report
- ESP Unit Consumption Report
- DG Running Hours Report
- Water Flow/Consumption Report
- Load Data (Kiln Section) Report
- Load Data (Other Section) Report
- Report Of Preventive Maintenance --> Daily
- Report Of Preventive Maintenance --> Weekly
- Report Of Preventive Maintenance --> Monthly
- Report Of Preventive Maintenance --> Shutdown
- Work Log Report
- Electrical Breakdown Maintenance Report
- Screw Compressor Servicing Report
- Screw Compressor AMC Servicing Report
- DG Servicing Report
- DG AMC Servicing Report

7. Module – Mechanical

Daily Transaction Features:

- Tracking of Process Circuits (Kiln Circuit, Conveyor Circuit etc)
- Tracking of Stock Bin Bunkers – Raw Material & Sponge Iron
- Work Log Management
- Preventive Maintenance Management --> Daily
- Preventive Maintenance Management --> Weekly
- Preventive Maintenance Management --> Monthly
- Preventive Maintenance Management --> Shutdown
- Mechanical Break Down Maintenance Management

Reports:

- Report Of Preventive Maintenance --> Daily
- Report Of Preventive Maintenance --> Weekly
- Report Of Preventive Maintenance --> Monthly
- Report Of Preventive Maintenance --> Shutdown
- Report of Process Circuits Running
- Report of Bin Levels of Stock Bunkers
- Work Log Management Report
- Mechanical Breakdown Maintenance Report

8. Module – Store

Daily Transaction Features:

- Requisition to Admin for Procurement
- Vehicle Unloading on Purchase Received
- Inspection of Purchase Received
- Inventory Management
- Tracking of Outgoing Spare
- Item Issue Management
- ROL Management
- Item Details with Photo Uploading Option and Technical Spec Attachment Option
- Returned Items From Department
- Indent From Department
- ABC Analysis
- HML Analysis
- FSN Analysis

Reports:

- Report Of Incoming Store Item
- Report Of Outgoing Store Item
- Report Of Item Store Issued
- Report Of Requisition to Admin
- Report Of Item Details List
- Report Of Items Below ROL
- Report Of Item Stock Details
- Report Of Item Returned from Departments
- Report Of ABC Analysis
- Report Of FSN Analysis
- Report Of HML Analysis

9. Module – Project Management

Daily Transaction Features:

- Contractor Profile Management
- Vendor Profile Management
- Multiple Project Creation Master
- Project Team Creation and Management
- Multiple Job Assignment & Tracking
- Project Timeline Management & Tracking
- BOM & BOQ Management
- Project Material Purchase Management (separate from Main Store)
- Project Store Creation
- Tracking of Job Feedback(Member)
- Tracking of Job Feedback(Admin)
- Project Accounts Maintenance (including CST, VAT, Excise Summary)

Reports:

- Report of Project Store Creation (Item Received)
- Report of Project Store Creation (Un priced PO)
- Report of Job Assignment
- Many other Custom Reports

10. Module – Environment

Daily Transaction Features:

- Ambient Air Quality Monitoring
- Hazardous Wastes Monitoring
- Stack Monitoring
- Water/Effluent
- Noise Standards Monitoring
- Water Consumption Monitoring
- Legal / Statutory --> Form 4
- Legal / Statutory -->Format B
- Legal / Statutory --> Form 5
- Legal / Statutory --> Compliance
- Legal / Statutory --> Legal Authorization

Reports:

- Reports of Stack Monitoring
- All necessary Statutory Reports
- Reports of Air Quality

11. Module – Government

Daily Transaction Features:

- DG Taxes & Duty Return Forms
- Mining Report Forms
- All Environment Statutory Forms
- Fire and Safety Statutory Forms
- OHR Management for

Reports:

- All reports related to above

12. Module – PayRoll

Daily Transaction Features:

- Automated tracking of daily attendance by Biometric / Smart Cards
- Employee Profile Management
- Holiday Management
- Shift Management - Roaster
- Manage Salary/Wage
- Leave Application --> General Staff
- Leave Application --> Check Leave Application (HOD)
- Leave Application --> Check Leave Application (Admin)
- Advance to Staff
- Health Check up Form
- PF and P Tax
- Message To Departments

Reports:

- Total Monthly Attendance Report
- Shift Report
- Leave Report (Month wise)
- Salary Statement (Month-Wise)
- Tracking Employee Attendance
- Tracking Employee Late Attendance
- Tracking Employee Early Departure
- Tracking Absenteeism
- PF Contribution Report
- Summarized Advance Deduction Report
- Detail Advance Deduction Report
- Tracking Force Attendance
- Professional Tax Report

13. Module – Asset

Daily Transaction Features:

- Insurance --> Fire Policy
- Insurance --> Machinery Insurance
- Insurance --> Workman Compensation
- Manage Depreciation
- Manage AMC Module

14. Module – Admin

Daily Transaction Features:

- Raw Material / Finished Product Discrepancy Handling --> Outgoing
- Raw Material / Finished Product Discrepancy Handling --> Incoming
- Supplier Profile Management
- Contractor Profile Management
- Weight Consideration Authorization
- Store --> Requisition Received from Store
- Store --> Enquiry Sheet
- Store --> Quotation Entry
- Store --> Compare Quotes
- Store --> Purchase Order
- Store --> Returnable Items from Department to Store
- Store --> Indent Raised by Department
- PayRoll --> Wrong Shift
- PayRoll --> Late Employee List
- PayRoll --> Has Not Left
- PayRoll --> Absent Employee
- PayRoll --> Force Attendance
- Raw Material Stock Calculation
- Finished Product (SI) Stock Calculation

All Admin approval stages and authorizations for managing the different triggers are managed in this module.

Reports:

- Raw Material --> Raw Material Incoming Report
- Raw Material --> Incoming Iron-Ore Report
- Raw Material --> Incoming Coal Report
- Raw Material --> Incoming Dolomite Report
- Raw Material Stock --> Iron-Ore Report
- Raw Material Stock --> Coal Report
- Raw Material Stock --> Dolomite Report
- Finished Product Stock --> SI Report
- PayRoll --> Absent Employee Report
- PayRoll --> Daily Attendance Report
- PayRoll --> Force Attendance Report

Other than all the above Modules, the system has the following three Business Process linked with each and every department.

- (i) Fault Booking & Ticketing System
- (ii) Job Request and Management
- (iii) Mass Messaging System
- (iv) SMS / Email Alerts on Critical Instances (pre defined)