



EPPS SMART ERP for Pharmaceutical Industry

The Indian pharma industry supplies over half of the global demand for vaccines, one third of the demand for generics in the US and one-fourth percent of all medicines in the UK. India enjoys an important position in the global pharma sector. Therefore, the future of Indian pharma industry is quite bright.

Market Trends of the Indian Pharmaceutical Industry



India is the largest provider of generic drugs globally with the Indian generics accounting for 20% of global exports in terms of volume



Government of India's 'Pharma Vision 2020' aims to make India a global leader in end-to-end drug manufacturing



Indian pharma industry likely to grow by 11% to \$41.9 bn in FY20



Indian pharma exports to touch \$22 billion in 2019-2020, Q1 exports stand at \$5 billion

Source: IBEF, ET & Business Standard

While there is a significant growth potential for the pharma industry in India it is also grappling with a few major challenges.

Major Challenges

The industry faces quite a few roadblocks, which needs urgent attention. The nature and diversity of the Indian pharmaceutical market, healthcare objectives and legal system pose unique challenges for the pharmaceuticals sector in India.

- Expiry losses and lawsuits filed due to expired products are a big threat to the profits of Indian pharma sector. This is one area where the industry is struggling. There has to be a stringent mechanism to keep a track on expiration date.
- Inventory is a huge cost factor for most pharma companies. A critical medicine being out of stock can be life threatening. At the same time excess inventory can lead to expiration losses.
- Process efficiency and quality is another area where the industry is struggling. Real time monitoring of process output and stringent quality parameters are mandatory for being compliant as well as competitive.

A good Enterprise Resource Planning (ERP) System can help to address many of these challenges. EPPS Smart ERP is one such system.

Key Features and Business Benefits of EPPS SMART ERP

? **Production Characterization and Product Specs Definition**

Item classification based on grouping, record product specifications and upload product images for quick identification.

? **Batch Tracking and Control**

Real-time batch monitoring to monitor the process from the Material Issue stage to In-Progress Quality Check (IPQC) stage. Reserve and De-reserve batches as per order urgency.

? **Shelf Life and Expiry Control**

Define date of manufacturing and expiry based on the shelf life of a product. Ensure first expire first out by issuing the short expiry dated batches first which will result in less wastage and fewer recalls.

? **Bi-Directional Batch Traceability**

End-to-end bi-directional traceability from the raw material, operation wise WIP tracking to the finished product level and vice versa, and from finished products to raw materials for quick root cause analysis & recalls in case of any problem.

? **Label Printing**

QR/Bar codes to help keep a track of products, quantity, and shelf life with ease in manufactured product reporting and goods inward.

? **Inventory Management**

ABC classification, storage location management and physical stock taking features to track inventory accurately.

? **Inventory Optimization**

Manage the inventory effectively based on Min-Max level, EOQ and Reorder Level, Auto Indents are triggered based on the quantities defined for replenishment of Inventory. As an alternative powerful forecast based Material Requirement Planning can be used to manage the inventory of ingredients.

? **Parameter Testing and Reporting on Ingredients**

Define limits for parameter testing and record actual parameters to control quality of the output items.

? **Inspection and Quality Control**

Material Inward Inspection, In Process Quality Check Definition as well as Finished Goods Quality Inspection will ensure delivery of quality products.

? **Formulation Management**

Define formulations of a product by recording Input, Output, By-Products, Co Products and Intermediates. It will help introduce new products to market faster and cheaper.

? **Management of Multi-Level Formulations**

Define complex formulations in a hierarchal format and manage multi levels with ease in a tree structure. Improve visibility of parent and child levels.

? **Management of Formulation Versions**

Maintain multiple formulas for a product with the ability to rollback to previous formulation effortlessly.

? **Production Process Definition**

Define production processes in a sequential manner with a list of in-house and outsourced processes, input materials, quantities of each, and the output items at each process stage. Manage work centers, manpower, provide production instructions, maintain quality parameters, and define activities under a process to capture all production details.

? **Formulation Costing**

Obtain formula costing as defined, analyze and control costs using alternate products, reduced wastage and optimum material utilization.

? **Master Production Scheduling (MPS) and Material Requirement Planning (MRP)**

MPS/MRP controls the status and use of raw materials and packaging, reducing inventory holding costs without the risk of shortages. Improve visibility to match supply with demand, with robust MRP and planning tools.

? **Stage Wise Quality Control**

Enhance the quality, consistency, and speed to deliver products to market by inspecting the output after each operation.

? **Auto Triggered Emails**

Experience instant alerts on transaction completion for quick reporting and further processing.

? **Audit Trails**

Know who worked on what, when, with complete audit-trail reporting.

EPPS SMART ERP has helped companies in the Indian pharma sector to improve process efficiency, reduce expiration loss and manage inventory better. Our smart solutions and features sit perfectly to match the unique needs of the Indian pharma industry.

In addition, below are some of the highlights of EPPS SMART ERP that empower businesses across verticals and make businesses more efficient.

THE EPPS SMART EDGE



SMART TCO

- ✓ No third-party licensing
- ✓ Concurrent user policy
- ✓ One year free support, after Go-Live
- ✓ Minimum cloud hosting charges
- ✓ Available On-Cloud/ SAAS/On-Premise



SMART Experience

- ✓ Intuitive user experience
- ✓ Configurable
- ✓ Scalable
- ✓ Seamless Mobility
- ✓ Prompt regional support
- ✓ Minimal training time



SMART Technology

- ✓ Futuristic Open Source (JAVA and PostgreSQL)
- ✓ API Framework (Connected Ecosystems)
- ✓ Scalable Technology
- ✓ Manage high volumes of data
- ✓ Platform Agnostic browser based
- ✓ Yearly 3 product releases with major enhancements

"EPPS SMART ERP helped us gain real time insights into our manufacturing operations and inter-company transactions. We were able to identify, define and track batch numbers of the finished goods right at the start of the production cycle. Because of the implementation of EPPS SMART ERP across all of our four business units, our team was able to issue, track and receive the material without additional data capturing or administrative activities. As all the four business units were on a common platform, we were able to get better insights, minimizing information dependency, and eliminating repetitive activities of data consolidation and reconciliation. "

- Surya Life Sciences Ltd.