

## Avon ERP for Chemical Process Industry

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### Enterprise Resource Planning (ERP) designed for Chemical Process Industry

#### Company Overview:

Chemical Industry in general is Process Oriented and requires well-tailored application software to monitor different processes that would facilitate top as well as middle management to browse through various reports as per their requirements with just a click of a button. This further makes data readily available across various levels of management without breaching the desired security aspects and provides required inputs to check and control different activities and ensure better productivity and efficiency.

#### AVON ERP – CHEMICAL An Overview:

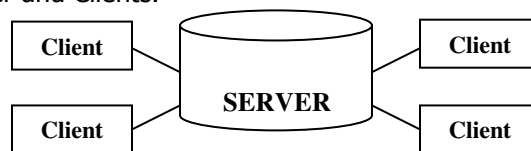
Keeping a view on Chemical industry's growing requirements and need of an automated process for its various business, production and human resource related activities a suitable ERP solution was designed and tailored to meet the specific requirements of a chemical process industry with the following modules in place

- **Finance**
- **Sales**
- **Inventory**
- **Purchase**
- **Production**
- **Plant Maintenance**
- **HRMS**

System/Administration module being another controlling module has all the capacity to control users, menu structure, accessibility and privileges.

#### Technical Architecture:

The application currently uses Client-Server architecture to interact between the Centralized Database Server and Clients.



#### Server Software Requirements:

Windows NT OS or above, Oracle 8i Database

#### Client Software Requirements:

Windows 98 OS or above, Oracle Forms 6i (Run Time), Oracle Reports 6i (Run Time)

#### Salient Features:

GUI (Graphical User Interface) Features:

- User Defined Menu Structure
- Easy to Understand Captions and Inbuilt Oracle based Tool Bars

#### Functional Features:

- Blanket/Standard Sales Orders and Staggered Delivery Schedule
- Multi-Level of Tax Handling
- Multi-Currency, Multi-Unit of Measure and Multi-Location support
- Bill of Materials and Material Requirement Planning

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- Indent based Purchase Order
- Inventory Management through Batch/Lot and Serial Control
- Multi-Stores for Raw Material, Engineering Materials, Maintenance etc.
- Quality Control and Inspection
- Batch Processing and Re-processing
- Production Control
- Trace backing from Finished Product to Raw Material usage and Supplier Details
- Attendance Monitoring from Smart Card Reader
- Financial Analysis Report based on Dimension/Segment
- Statutory Reports related to Tax, Finance and Pay Roll

### A Case Study: Avon Organics Limited

Avon Organics Limited is primarily involved in Production of fine chemicals, especially Diketene which is the basic unit for hundred of derivatives in pesticides, chemicals, pharmaceuticals and dyestuffs. A highly classified technology, it has been sourced from Shanghai Peng Pu Chemical Works, China, and Xytel Technology Partnership, USA, and now rests in the hands of a few chosen manufacturers across the globe. The Head Office is located in Hyderabad, India where as the Plant is located at 60 kms from the City.

Avon ERP is implemented to integrate both Factory and Head Office with a centrally located Server at Head Office. Sales, Purchase, Inventory, Production, Plant Maintenance, Finance and HRMS modules have been incorporated to ensure an efficient and controlled flow of Data. ERP production module controls production of Arylides, which are based on Diketene condensation with complicated aromatic amine derivatives to ensures that necessary parameters are captured to trace back from end to beginning.

Since Purchase, Finance and Sales & Marketing is basically handled in Head Office where as Stores, Production, Plant Maintenance is controlled at Factory level, Integration of Factory and Head Office through ERP drastically reduced the complexity in controlling Purchase Orders, Material Receipt and Inspection Notes against Purchase Orders. Here is a compiled list of few Reports, which helped Top as well as Middle Management of Avon Organics in keeping abreast with the Process and flow of material as well as money across the Organization & beyond.

- Inventory Reports such as MRIR (Material Receipt cum Inspection Report for Raw Material, Engineering Goods and Finished Products)
- Supplier Analysis Reports
- Material Usage and Movement Reports
- Statutory Reports related to Taxation
- Salary and Wages Reports
- Production and Raw Material usage Reports
- Ageing Analysis Reports
- Financial Reports etc

### IT Infrastructure of Avon:

**Server Software:** Windows2000 with Oracle 8i Database

**Client Software:** Windows 98, Oracle Forms 6i (Run Time), Oracle Reports 6i (Run Time)

### Conclusion:

The ERP solution in its present status can be customized and implemented for similar industries with little or no effort to ensure that it matches with all other requirements that the industry is looking out for.

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