Production Management

Module in **SAJAYA**® system works on planning and managing production phases through specifying the required standard formulas, raw materials, and human resources for production processes. It also estimates required cost and duration for the production processes. Then provides necessary information for comparing between estimated product quantities, costs, and durations with actual ones to ensure producing materials and final products within the requested quality and time.

▶ Advantages

• Organize production process, maintain tight control over all production phases, identify tracks, stages, required formulas, and consumed resources in each phase with clarifying the required production quantities accordingly.

• Increase enterprise readiness and capability of delivering products on due times through planning all production phases, identifying the needed requirements to provide them whenever they are needed.

• Save time and effort, reduce mistakes, and facilitate workflow through planning and applying production cycle, organizing privileges of issuing production requests, and approving orders\vouchers, with transferring each phase data to the next phase automatically.

• Increase production capacity and efficiency through organizing workflow, providing data instantly\ automatically for all enterprise epartments about the required raw materials for each phase to work on delivering the available, purchasing the unavailable materials, and receiving the resulted manufactured\semi-manufactured products from each phase.

• Increase competiveness through controlling the cost of the final product by organizing and following the consumption of raw and emi-manufactured materials in each production phase until reaching the product actual cost, and comparing it with adopted standard cost, studying deviation's causes and solutions to resolve them.

• Create reporting records that contain the resulted financial effects of production phases, register them in accounting records, identify those phase's costs, effects, and transactions, also identify depreciation value in inventory and warehouses taking into consideration raw materials and finished products quantities.

• Reduce the required effort for following up production process to ensure production quality, compare them with standards through linking the production process with quality control measurement.

▸ Features

• **Coding and Barcodes Polices:** Program allows creating several policies for generating codes and numbers of materials based on the product characteristics, categories, classes, and nature; also creating barcodes for the used packing methods in purchasing and selling.

• **Serial Numbers:** Serial numbers are created based on several policies linked to the material properties to enable user of following-up specific material after releasing it from the enterprise which facilitate after sales maintenance tracking.

• **Inventory Management:** Program manages resources planning to determine inventory maximum\minimum quantity, issue reports, generate alerts accordingly to enable user of controlling and ensuring production operations execution depending on inventory and final products quantities.

• **Purchases Orders:** Voucher type for issuing and registering external purchasing orders depending on inventory updates and production plans, providing the unavailable quantities\materials in the warehouses, also linking purchase orders of production plans together and allocating materials quantities upon orders receiving.

• **Voucher's Multi-Types and Numbering:** Ability of defining infinite voucher types to use them in transactions with independent numbering for each fiscal year to maintain the correct numerical sequence and connect these types with voucher's main categories as (production requests, production orders, input and output vouchers, quality inspection…etc.).

• **Template Vouchers:** Templates vouchers include default data/information which are used frequently in many transactions, where the default data/information are imported from standard vouchers/templates instead of re-entering all data again.

• **Recurrent Vouchers:** Vouchers for frequently repeated transactions. Those transactions have similar data with different financial effect's date,
therefore they are created once in the system with specifying their repeating frequency, so the system creates them automatically in their repeating date.

• **Copy Vouchers:** Tool enables users of copying voucher information and details to new one for information accuracy and rapid input through using the available programing tools in the system.

• **Additional Fields:** Ability of defining several addition fields for each product with specific properties (number, date, text…) which enable users to enter additional data and inquire about their transactions.

• **Printing Multi-Layouts:** Program allows users of creating vouchers of production, warehouses, examination certification, and analysis in several layouts by using the available main layouts in the system or by designing new layouts for each voucher for fulfilling enterprise special requirements and needs by using the available programming tools.

Production Planning

Program in **SAJAYA**® system specializes in managing all production issues, planning phases, and providing requirements to increase enterprise production capability, it also specifies the required resources according to the used formulas to compare them with the available resources and issues reports about all these processes statement.

▸ Main Functions

• Define all necessary production lines to reach for the final products, define all production resources data, identify cost calculation methods and the applied formulas in production phases.

• Plan production process, identify final quantities to be produced, clarify each phase available and required resources, specify shortages in the needed resources, and estimate product cost throughout all production phases (raw material, semi-manufactured, and final product).

• Register production tracks and phases of each product according to the planned execution sequence and the used operation centers, as well as identify each phase duration, resources, formulas, and results.

• Issue current, historical, and statistical reports, inquire about enterprise available resources readiness, minimum produced quantities, completed and cut-of phases throughout production process with all details.

▸ General Features

• **Product Multi-formulas:** Program allows modifying on production element with
possibility of saving the previous formula, and creating more than one formula for the same product, approving on some of them to be used and postponing others for certain period, or replacing old formula with new one in the product formulas tree.

• **Production Multi-tracks:** Program allows modifying on production track with ability of saving the previous one, and creating more than one track for the same product,
approving on some of them to be used and postponing others for certain period, or defining several production tracks for each processes.

• **Barcode and Coding Polices:** Program allows creating several policies for generating material codes and numbers automatically for creating their cards which depend on product characteristics, categories, classes, and nature, also creating barcodes for the used packing methods in purchasing and selling transactions.

▶ Main Functions

• Issue production requests for producing specific materials quantities, specify delivery due date, transfer those requests to production orders, and estimate those orders required duration and cost.

• Create production vouchers depending on the approved production order, specify the expected starting and ending dates, specify resources required quantities, define formulas, raw material and delivery place of each production phase, and transfer those data to the next phase automatically.

• Issue warehouse out-vouchers for raw materials, specify the consumed raw material quantities in each phase till reaching the final product.

• Issue reports and follow up inquires about enterprise production process, produced quantities and differences between the used raw material quantities and the produced items with all details.

▶ General Features

• **Internal Production Orders:** Vouchers for registering internal production orders based on the issued production requests from enterprise other departments to allocate available materials in warehouses and order the unavailable materials by issuing internal supply request for other departments, or by creating direct external purchase orders.

• **Internal Production Vouchers:** Vouchers for issuing and registering internal production vouchers depending on issued production orders from enterprise other departments, also specifying the required raw material quantities for each phase, creating the necessary transactions related to materials out bond and in bond.

• **Organizing Privileges:** Program works on organizing privileges such as approving, changing, modifying, transferring, deleting…etc., for each production voucher type which are controlled by the authorized users or by using passwords.

• **Production Control:** By linking productions voucher types with production lines and users where the transaction will be created only for the allowed voucher types and by authorized users which mean rejecting any transactions violate those conditions.

Production Processes

Program in **SAJAYA**® system provides tools for controlling the produced quantities and maintaining stock level according to the strategic inventory level that should be available and the completed sales that should be delivered through controlling the production process starting with material's production request till reaching the final product which include each phase inputs and outputs within the production line.

Production Costing

Program in **SAJAYA**® system provides accurate terms for planning products costing policies, and estimating production costs to enable enterprises of managing all production tasks\phases accurately and efficiently. It also provides precise mechanism for following up and calculating the actual costs of each phase, providing financial and administrative reports about the actual & estimated costs, and deviations during each process, therefor helping in making right decisions.

▸ Main Functions

• Calculate product standard cost according to the approved costing policies on the level of each production resource in each phase, identify costing calculation method whether on produced quantities or the required duration for production process.

• Calculate the actual cost of all production phases for each production order, specify the final product cost, compare the actual cost with order standard cost, study cost deviation, specify their causes and phases, and clarify whether those deviations effects will increase or decrease the cost.

• Issue reports and inquire about daily, current, historical, and periodical enterprise production's process, financial deviation, costs of raw materials and products throughout all production processes in the enterprise.

▸ General Features

• **Costing Policies:** Program provides multi- policies for costing materials based on several produced units, raw materials, working durations, and the used equipment on the level of the produced items or on the production phase according to the adopted enterprise policies for each product type.

• **Multi-Financial Integration Levels:** Program allows users of organizing the resulted financial vouchers from production transactions through providing several integration level to link transaction's financial effects and vouchers, then distribute them on GL accounts which include several levels i.e. material's level ,warehouse, used vouchers, client, company,…etc.

• **Automatic Vouchers:** Documenting the financial and the administrative effects for each phase in the production life cycle by issuing in bond- out bond automatically to register them in enterprise accounting records.

Main Functions

• Issue vouchers of quality inspection, link them with under-process production vouchers, identify inspection dates and phases through production process, and specify inspection responsible persons and standards that have to be checked.

• Issue the required quality reports for each production phase, transfer them to the next phase till reaching the final product; Reports are necessary to release products for marketing and selling purposes, as well as specify the rejected quantities, and reasons of rejection.

• Issue certificates of product's analysis and inspection for clients to show the inspection results, and clarify the checked standards for selling and exporting purposes, then link them with the production and quality control vouchers which are issued during production's phases.

General Features

• **Quality Policies:** Program allows users to create several policies for quality inspection; Each policy includes standards and criteria which are considered for product approval with ability of linking one product with multi-policies according to exporting and purchasing parties or linking one policy with several products.

• **Develop Customized Systems:** by adding new programs to serve specific quality control tasks in the enterprise, and provide the required integration with production module and other modules for fulfilling all production process general and special requirements.

• **Validity Periods:** Periods identify by quality control unit for the final products as results of studying the applied quality inspection and analysis on the product for each quantity within single production process.

Quality Control

Program in **SAJAYA**® system works on providing several procedures and policies to ensure quality of the final product, following up quality errors in early stages through organizing and managing quality inspection process for production's outputs from each phase within production track until reaching the final product.