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INDUSTRY ERP

Aluminium Foil Sector ERP

Manufacturing ERP for foil rollers and converters — approval-gated buying, BOM-driven production, reversals that respect stock, and a full audit trail.

Built for aluminium foil rolling and converting, and for the process manufacturers around it — a plant where a jumbo roll becomes slit rolls, becomes a converted product, becomes a packed carton, and every one of those steps has to leave a number behind. Orders, buying, the floor, the godown, exports and the books, in one database.

In daily use at **Dugar Polymers Limited**, **Rossari Biotech Ltd — Foil Division** and **Rockdude Impex Pvt Ltd**, across EOU and non-EOU units with group-company reporting.

Nothing is bought without the approvals

The most-worked part of the system, and the reason a growing plant outgrows a simpler ERP.

- **Approval slabs by value** — up to a limit, one named approver; above it, another, and so on, each drawn from the user master
- The requisition **carries a rate, not just a quantity** — averaged from what that item has cost before, and typed in only where there is no history
- The value of the requisition decides **how many approvals it needs**, and they are taken in sequence: the lower slab clears it, then it opens for the next
- **Edit a requisition and its approvals are gone** — every one of them, so an approved document cannot be quietly changed after the fact
- A purchase order takes the same route, and reaches GRN only once it is fully approved
- Reports show **how many approvals, by whom, when, and how many are still pending**
- **Short close** on a purchase order, keeping the balance quantity against each item
- Rejection quantity captured at GRN, and a **PO that a GRN already references cannot be edited** — a balance beyond tolerance means a new PO

Production, driven by the bill of materials

- **BOM masters for finished goods and semi-finished goods, versioned** — production runs on the current version or on a named older one, deliberately chosen
- **Production order** against machine and operator, listing finished goods and quantities in boxes, with the BOM version captured into the order as it stood
- **Floor requisition raised against the production order** — raw and packing material arrive already selected at BOM quantity, and the machine with them; quantities stay editable

- Production and packing entries both work off the production order, taking the machine and the BOM version from it
- Once material has been issued against a floor requisition, **that requisition is frozen**
- Production order close and short close, with a pending-quantity status report
- **Bill of requirement** and production schedule — orders on hand against stock on hand
- Machine operator master; down time entered with reasons and analysed by reason and by machine
- BOM incomplete and BOM not found reports — the two things that quietly break a BOM-driven plant

Reversals that respect the stock

Cancelling a transaction in a manufacturing plant is not a delete. Each of these takes its own document number, values retrospectively, reverses only what is still in hand, and **will not let stock go negative**:

- **GRN reversal** — selected items only, taking raw and packing material back out
- **Production reversal** — semi-finished stock down, raw and packing material back onto the floor
- **Packing reversal** — finished goods down, semi-finished and packing material back
- **Sales cancel** — the whole invoice marked cancelled and excluded everywhere in the software, with the stock returning to godown at its own cost

The audit trail

- A **separate module for viewing the trail**, holding the changes made through the financial year
- Watched documents: customer and supplier masters, item master, purchase order, GRN, sales order and sales invoice
- Watched fields: payment terms, bank details, item code, group, unit and pieces per box — and on every document, **changes to line items, quantity, rate, date and entry number**
- The report shows the **value before the change**, who made it and when; a line item added or removed is recorded with its code, quantity and rate
- Whole-entry deletions carry who deleted them and when
- Item names cannot be changed on edit at all; a master changes report covers the rest

Inventory, godown and floor

- Sub-godown, main godown and floor-wise stock for raw material, packing material, semi-finished and finished goods
- **Roll and batch-wise movement**, slitting, repairs both at godown and on the floor, stock JV between internal departments, and transfer to the dispatch godown
- Registers throughout — inward, requisition, issue to floor and its acknowledgement, back to godown, repairs, material used, slitting, production, store receipt
- Finished goods position: store receipt register, stock JV register, transfer-to-dispatch register, stock statement and stock register

- **Bar code stickers**, a difference register for standard against actual production, and slow and fast moving analysis
- **GRN profitability** — what a particular receipt actually earned

Selling, exporting and GST

- Pre-sales in its own right: sales inquiry, export inquiry, **costing**, offer and sample invoice
- Sales orders local and export, order merge, square-off and close
- Invoicing under current GST, customer and item-wise pricing fed in bulk from Excel, state-wise sales rate import, delivery challan, landing PI and commercial invoice
- **Deemed export, merchant trade export and third-country merchant trade** as document types of their own, not as adjustments to a local invoice
- Export documentation: performa invoice, custom invoice, packing list, custom certificate, covering letter and **container-wise breakup**, multi-currency throughout
- **E-way bill** generation for the portal, e-way bill number import, and e-invoice number import matched back to the invoices they belong to
- GSTR-1 Excel generation, and GST registers for sales, purchase, debit and credit notes
- Amazon sales invoices imported from their own file
- Ledgers and outstanding for foreign customers **in their own currency**, with shipping expense booked against the export or import invoice it belongs to

Buying and job work

- Purchase requisition for raw material, packing material and **semi-finished goods**
- Purchase inquiry, with **inquiry mails going out to vendors** from inside the software
- Purchase order, GRN with rejection quantity, purchase return and debit note
- Job work as a full sub-ledger: opening stock, challan entry, dispatch and transfer, with its own statement and reports

The books and the questions

- Full accounting — bank, cash and petty cash, expenses, journal, debit and credit notes, sales and purchase returns, bank reconciliation, TDS and TCS
- Trial balance with interactive edit, transfer JV, cash flow, fund flow, final accounts in T format
- Outstanding with aging analysis, adjustment and **reminder SMS**
- **Dynamic sales analysis and dynamic inventory analysis** — pick your own rows and columns rather than asking for a new report to be written
- Sales, purchase, payment and receipt analysis in rupees and in foreign currency; expense and balance analysis; monthly income and expense; over and below listings
- A **report generator** for what is left, and an **Excel-for-Tally** export where the accounts have to land in Tally anyway

- Tally import for accounts, opening balances and the daybook, when moving on to this from Tally

Everyday things

- **Rights per user on every menu**, several screens open at once, every report to Excel or PDF
- Reminders per user; e-mail and SMS from inside the software, including party-wise outstanding mail
- Data export and import between installations, daybook export, database and data-only backup
- Opening entries for accounts, stock, GRN, bank reconciliation and outstanding breakup, so the first year starts complete

Technical details

- Front end: Microsoft .NET (VB.NET) on Windows
- Back end: Microsoft SQL Server
- Output: native Excel and PDF, e-way bill and GSTR-1 files, SMTP mail, SMS