Material Estimation & Tracking System

...extending control and monitoring

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Quote

• "I do not believe you can do today's job with yesterday's methods and be in business tomorrow."

By Nelson Jackson

- When companies experience fast growth, it's easy to forget to strengthen the digital infrastructure that facilitates communication. A key part of the solution is to make sure that all hires are plugged into the networked dashboard so that no one is left out from the information loop.
- IT is critical not only for growth of the Organization, but to retain flexibility, improve customer service, interaction with suppliers and partners, operational management, product and service innovation—all in the effort to enhance scalability and maintain some of the attributes that have served them so well.

Growth can be very challenging.

Common performance challenges may include:

- Lack of proper planning
- Unclear objectives and priorities leading to "Management by fire fighting"
- Ad-hoc policies and processes
- Cash Flow Management constraints
- Lack of clear insight into business performance and profitability
- Inadequate systems and controls

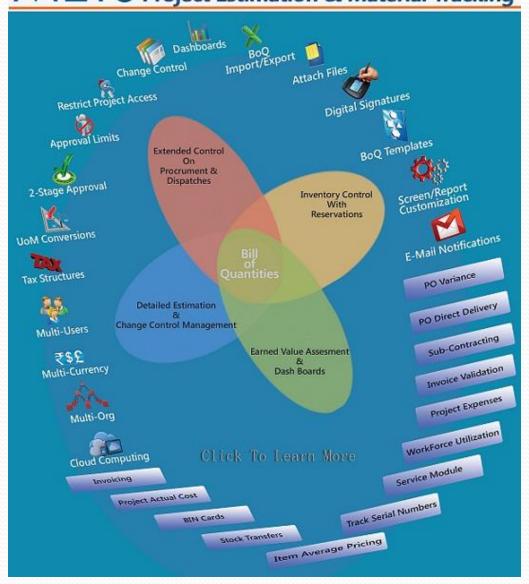
Challenges

- Detailed Estimation Cost Vs Price.
- Sub-Contracts.
- Change Controls.
- Preserving Documents.
- Spontaneous Decision Reliable Data.
- Earned Value Statement.
- Control on procurement, Dispatches, Inventory.
- Monitor overall progress.
- Post analysis Actual Costing, Deviations.

What is Needed?

- Software Application
 - Multi –User
 - Authorizations
 - Change Controls
 - Tool to perform real-time analysis
 - Accessible from any where
 - Low Cost of Maintenance
 - Low Initial Cost

METS An Application for Project Estimation & Material Tracking



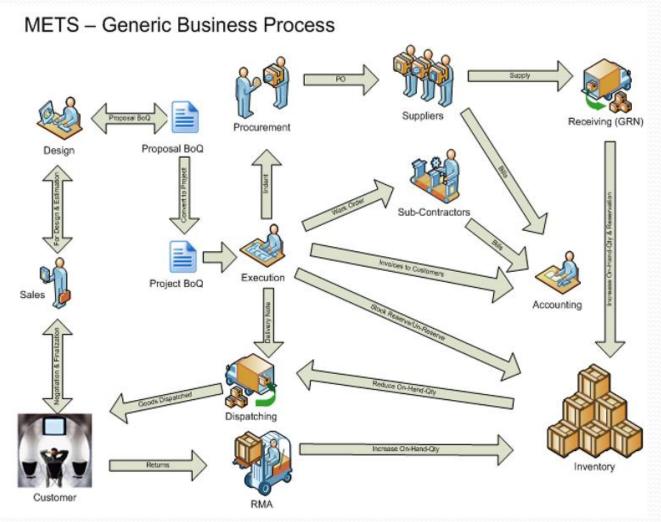
METS — Material Estimation & Tracking System

- Multi-User
- Multi-Org
- Multi-Currency
- Web-Based Application
- Low Cost
- Minimal change in infrastructure

METS

- Inventory
- Proposals
- Projects
- Work-Orders
- Dispatches
- Procurement
- Trade Orders
- After Sales Services

Business Process



Inventory

- Bin Card
- Stock on hand
- Stock Valuation
- Inter Org Stock Transfer
- Stock transfer to sub contractor
- Inventory Reconciliation
- Material Transaction Details

Proposals

- Import/Export BoQ from/to excel.
- Group BoQ items by task and subtask.
- Copy BoQ items from templates, proposals & projects.
- Supports multiple tax structures.
- Segregate cost and price to material and work (labor), freight, packing & forwarding charges, miscellaneous charges and taxes.
- Associate Client Item code/task and description and also specify additional item description.
- Multi-step approval process. Iterations of Submit for approval and reviews and finally approve.
- Amend Proposal during Technical/Design/Financial bidding and track changes.
- Data Grids can be customized as per user preferences.
- Information confidentiality from sales and procurement.
- Reports to view changes by item details/tasks.

Projects

- Along with features of proposal, projects also offer the following:-
- Items can be reserved for a project.
- Associate dispatched Non-BoQ Item to project BoQ item on amendments.
- Displays summary of item dispatches, returns, reserved, Indented and local purchases.
- Change controls track all item changes right from project inception till its completion.
- On demand cumulative quantity/price variance of material.
- Allows material charges to be excluded.
- Process flow to track approval sequences.
- Record on site expenses incurred and work force engaged for executing a task.
- Easy to track total billable work completed as of now.
- Process to document collections including TDS certificates.

Work Order

- Sub-Contract parts of project and track changes and Invoices.
- Issue Work Orders with or without material.
- If without material, Option to transfer stock from Organization to contractor lot and vice versa.
- Multiple WO's can be issued to multiple Contractors.
- Track stock at contractor's lot including wastage.
- Supports multiple Units Of Measurements.
- Supports multi-currency and tax structures.
- Allows users to freeze visible columns.

Procurement

- Purchase Orders may be related to a project or it may also be an inhouse purchase.
- Compare Purchase Price with Item Average Price and Project BoQ's own material cost and view variances.
- Purchase unit of measure need not be same as BoQ UOM.
- Validations against serial numbers for Inventory items.
- Process flow to track approval & authorization sequences.
- Define approval limits based on PO Total and Non-BoQ items.
- Mark entire Goods Receipt Note for Direct Delivery.
- Options to save user screen preferences.
- Amend PO after placing it and track changes.
- Validate price and quantity of Vendor invoices against PO and GRN
- Track vendor quotations.

Dispatches

- Dispatch BoQ or Non-BoQ items considering wastage quantity distinctly.
- Customer Returns can be BoQ items or Non-BoQ items.
 Allows direct delivery to customer.
- Customer Returns are validated against BoQ.
- Association of Non BoQ to a BoQ item.
- Track dispatched serial numbers.
- Define approval limits to prevent exceeding dispatches over certain percent of Estimated BoQ quantity.
- Review Deviations from Project BoQ and obtain Amendments from customer if required.

Invoicing

- Gives a complete picture of BoQ/Non-BoQ items that were dispatched, returned, locally purchased, previously invoiced, invoiced but awaiting client approval. Quantities and Amounts are segregated by material and work.
- Generate customer invoices along with annexure.
- Allows generating credit notes as part of adjustment to previous invoices.
- Records details related to receivables from customers including tax certificates.
- Validate vendor invoice quantity and price against PO and GRN and cross validate against previous invoices to avoid duplicate invoicing.
- Validates quantity and price against the Work Order issued and previously submitted invoices.

User Preferences

- Freeze and unfreeze columns.
- View/Hide columns and Save the settings for future use.
- Export data to excel.
- View data in a report format.
- View authorization sequence.
- Use Shift+Tab to switch between screens.
- No of open screens within a user session is configurable.
- Save reports in multiple formats.
- Customize reports and register them.
- Item changes displays every change done as per change control.
- View revision history displays all changes done since its inception.
- View project and Item Variance.

- Project Monitoring :-
 - Project variance
 - Cumulative variance.
 - Costing.
 - Earned Value Assessment.
- Documenting Changes :-
 - Amendments to Projects.
 - Amendments to Purchase Orders.
 - Amendments to Work Orders.
 - Approval cycles to Amendments.
 - View Changes

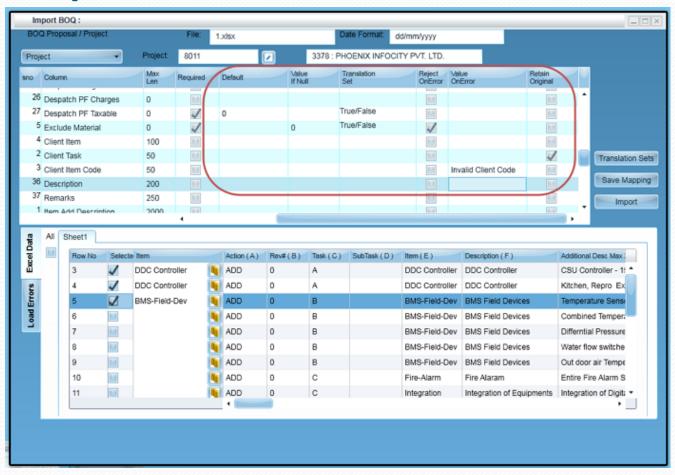
- Maintain Efficiency :-
 - Import/Export BoQ from Excel.
 - Generate BoQ by copying from previous proposal/projects/templates.
 - Verification of customer/vendor/work order invoices.
 - Generate invoices.
 - Transaction Summaries.
 - Inventory Summaries.
 - Inventory Reservations.

- Procurement :-
 - Validates against BoQ quantity.
 - Verify prices against BoQ and Item average prices.
 - Displays BoQ variance.
 - User approval limits.
- Dispatches :-
 - PO with direct delivery to customer.
 - Validates against BoQ quantities.
 - Track wastage quantity.
 - User approval limits.

- Obtain reliable information on time for prompt decision making :-
 - Price comparisons during procurement.
 - View changes to BoQ.
 - View BoQ information by Task, sub-task or both.
 - Segregation of material and work costing/pricing.
 - Earned value vs Invoiced value.
 - Work force utilization.

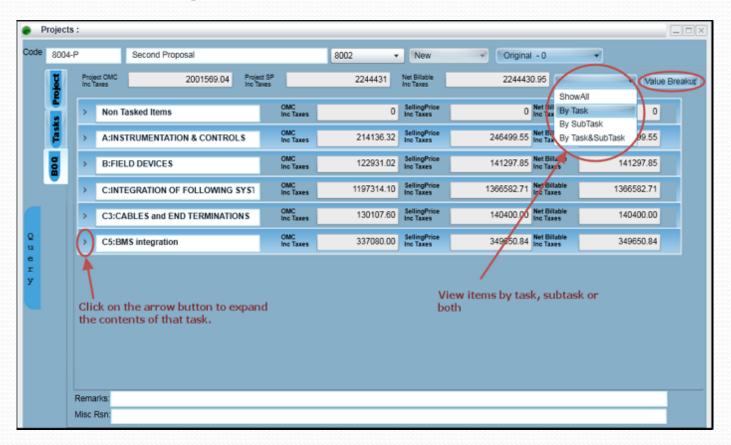
- Post Analysis :-
 - Estimated vs Actual quantities.
 - Estimated vs Actual cost of material.
 - Estimated vs Actual cost of works.
 - Estimated vs Actual overall cost of the project.
 - Actual margins of the project.

Import BoQ screen shot



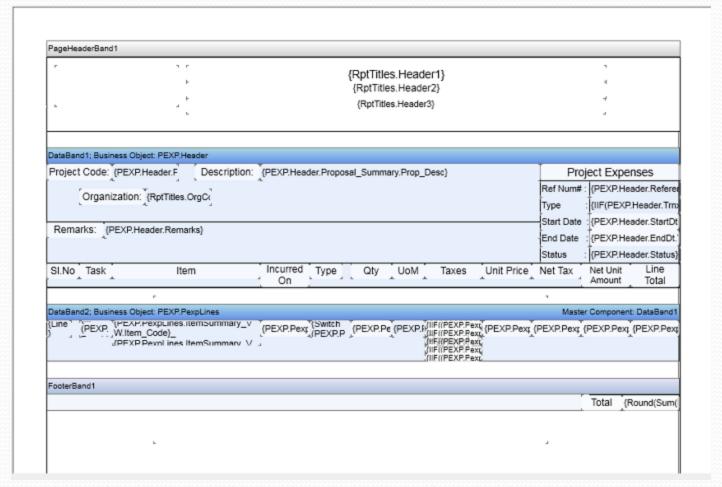
Drag and drop the customer BOQ which is in excel format into Excel data tab. Map items you want to import to the BoQ items and select import.

View by Task screen shot



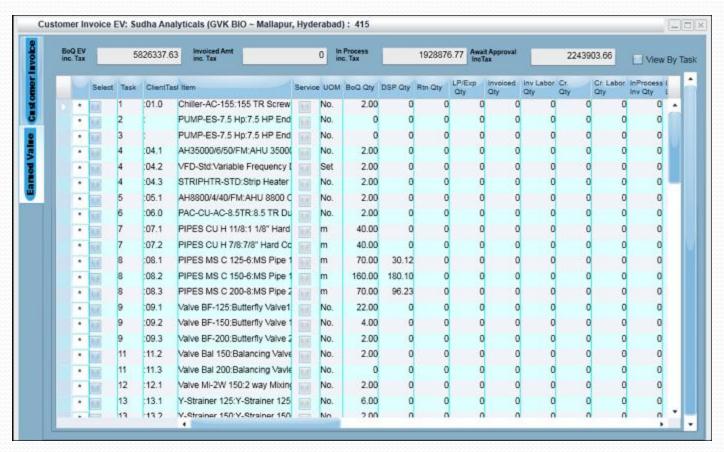
BoQ items can be viewed by Task, Subtask or both.

Report Customization screen shot



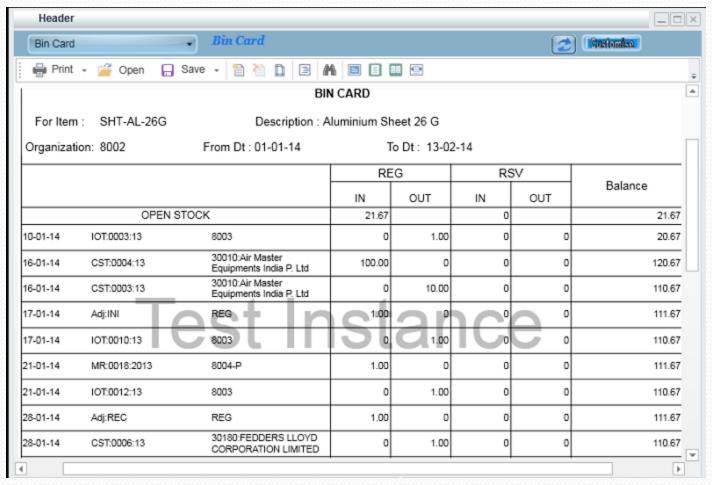
When the viewer selects the customize button he will given an opportunity to design the report screen accordingly.

Earned Value Screen Shot



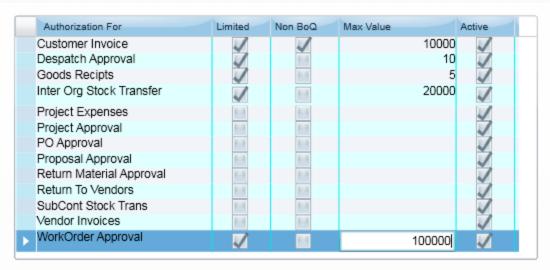
In the Earned Value tab, users can clearly see the Earned value, Invoiced amount/labor value, credited material/labor value, In process material/labor value and Amount to Invoice value etc.

Bin Card Screen Shot



Bin Card displays item history along with current stock on hand

User authorization screen shot



^{*} In Case Of Limited Authorization Max Value for DN indicates %of Qty user may exceed beyond BoQ Estimated Qty

^{*} Non BoQ is applicable only for users with limited authorization of PO Approval

Contacts

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