# Q.Soft SCM.

Supply Chain Management Solution for Manufacturing.

Q. Soft SCM is software developed by a team with experience in analyzing and developing production management systems across various industries, combined with a team experienced in developing database applications (programs with large database storage systems). We are committed to providing solutions that help address production management issues for all types of industries. Therefore, we have selected specific features that are suitable for various types of businesses, so our customers receive solutions tailored to their company's specific operations.

Just in time Zero defect Zero Stock
ทันเวลา ไม่มีของเสีย ไม่มีสินค้าค้างสต๊อก

SUPPLY CHAIN MANAGEMENT

Supply Chain Strategy · Supply Chain Planning · Supply Chain Enterprise Application · Asset Management · Procurement · Product Lifecycle Management · Logistics

We adhere to the concept of "**Just in Time, Zero Defect, Zero Stock**" as the goal of this solution. It aims to streamline production across the entire value chain of our customers' businesses to achieve maximum efficiency and cost savings. This includes minimizing dead stock as close to zero as possible for finished goods, semi-finished goods, and raw materials, enabling flexible and timely adjustments to delivery plans in response to changes in customer orders, advance procurement planning, ordering raw materials with real-time visibility into goods in transit, tracking the status of outsourced goods, managing products for export, and even customizing solutions to integrate directly with hardware systems.

with the following main features:

Q. Soft SCM program and additional options consist of the following main features:

1. Advanced Planning & Scheduling System

is a simulate scenarios for advance production planning to manage production and delivery schedules on time, or to plan production in order to reduce inventory levels or lower production costs. The system supports made-to-order,

made-to-stock, and made-to-forecast production models, efficiently managing hot orders (allowing for urgent jobs to be inserted). It also helps with shop floor management and comes with a Gantt Chart that allows real-time adjustments directly on the chart, making it easy to update plans. The system also handles advance procurement planning by calculating the Purchasing Lead Time, as well as planning for outsourcing (OEM) by specifying the required delivery date to suppliers. Additionally, it calculates with precision up to 12 decimal places.

2. **Estimate Price and Quotation with Selectable Production Cost Formula.**

The program facilitates sales personnel by allowing them to select production formulas to view costs and add a markup, enabling them to generate sales quotations efficiently.

3. **Material Requirement Planning (MRP) System**

Supports inventory management, including raw material receipt, material preparation for production, raw material issuance for production, receiving finished goods from production, receiving defective items from production, stock transfers between warehouses, transfers to outsourcing (OEM), receiving goods from outsourced jobs, returning raw materials to suppliers, returning raw materials from production, and receiving returned products from customers. It provides backward traceability to track information retrospectively and forward traceability to track production and delivery information. The system includes Lot Control inventory management, allowing for control by Sub Lot or Serial No. It also allows for creating product Lots from customer Lots or generating internal Lot numbers.

4. **Shop Floor Control System**

Dashboard for monitoring and analyzing production status through real-time updates, including tracking the quantity of products manufactured using barcode or QR code scanning. This reduces errors from manual data entry and provides a fast,

convenient solution that is easy to implement in actual operations (Production Monitoring).

5. **Cost Accounting System**

Supports collecting and calculating production costs, including post-production cost allocation and costs for outsourced production, to determine the actual cost (Actual Cost). It calculates Direct Materials (DM), Direct Labor (DL), and Overhead (OH). For DM, the system can calculate using Moving Average, FIFO, or Lot Specific methods. For DL, it can calculate labor costs per minute or per piece. For OH, there is no limit to the number of categories that can be used for cost allocation.

6. **Warehouse Management System (Optional)**

Supports warehouse management at the location-shelf level, pallet management, and generating product tags using a Recycle Kanban system.

7. **Mobile Application for Inventory Control (Optional)**

For more convenient warehouse management, the mobile application allows inventory deduction and links work order data from the Q.Soft system for use on a mobile platform.

8. **Quality Control System (Optional)**

Records the results of testing raw materials and products from the stages of receiving raw materials, during production, and post-production, up to receiving returned products from customers. This process is recorded as a Non-Conformance Report (NCR) and used to generate a Certificate of Analysis (CoA) for products to be delivered to customers. It also calculates waste allowances to avoid impacting production formula calculations, and the test results are stored as data for each production Lot.
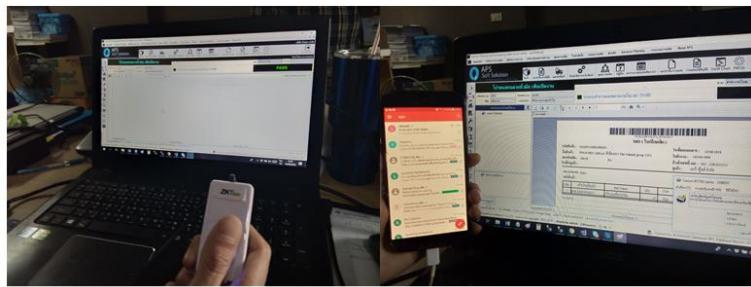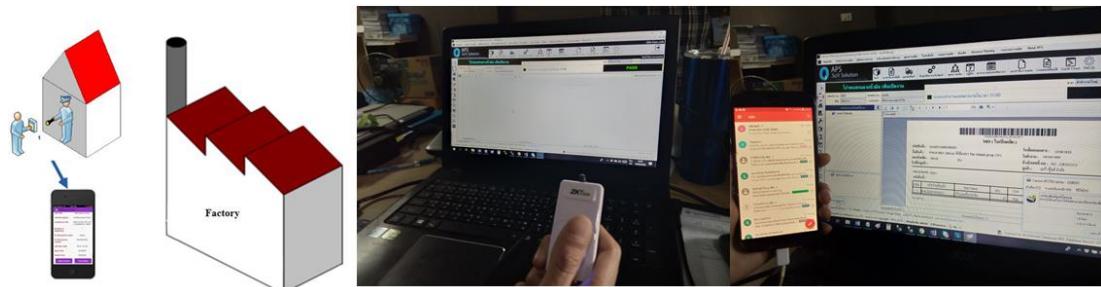
9. **Skill Matrix System (Optional)**

A system for planning work assignments for production line personnel based on their skill levels. When employees begin their shifts, the program assigns tasks to their mobile devices or prints work orders for the workers.

10. **Sales Application System (SO Web Application – Mobile Responsive) (Optional)**

Supports multiple levels of discounts, promotions, coupons, free gifts, and credit limit approvals or temporary credit limit increases via LINE Notification

11. **Plant Maintenance Module (Optional)**

Supports scheduling preventive maintenance, urgent repair requests, opening repair jobs, outsourcing repairs, managing spare parts and equipment inventory, tracking maintenance status, and calculating repair costs. The maintenance plans and failure notifications are integrated with the Advanced Planning & Scheduling (APS) system, allowing the production planning team to make timely adjustments.

12. **Security Authority System**

Allows for defining user access rights (add, edit, delete, view, print) for every menu, setting up separate document volumes, enabling the system to calculate material and raw material requirements, and segregating the requirements for different products into separate volumes. Also allows for setting visibility for every cost field.

13. **Interface System for Accounting-Finance Programs**

Includes menus for integrating with leading accounting software via API or Web Application, or through Share Tables, such as WINSpeed. It also offers data

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export-import menus compatible with various leading accounting software brands, such as Formula.

14. Business Intelligence System

After using Q.Soft SCM, which provides real-time data, customers can enhance their experience with a dashboard for viewing reports via mobile phones or tablets. The system allows users to drill down into the data and customize report formats as needed.

15. Import-Export System (Fast, Cost-Effective, Supports Customs Work)

Handles the import of data including Packing Lists, Bills of Lading, and Invoices for imported goods. Allows the import of data from Excel or XML for recording Import Declarations. Manages product packaging based on packaging types, defines packaging specifications, and sets up packaging formulas (what packaging can be used for specific products).Generates Packing List (Draft) and Custom Invoice (Draft) documents for shipping or direct submission to customs for export approval. Imports data from Excel or XML (NSW from Customs) to match the Import Declaration with the Custom Invoice for export.

16. Quality Assurance System (Optional)

Features include conducting contact reviews with suppliers regarding raw materials, alerting for confirmation of purchase accuracy, and checking and recording detailed test results for certification according to international product standards. Tests include Chemical Test, Mechanical Test, Impact Test, Hardness Test, Magnetic Test, Radio Graphic Test, Liquid Penetrant Test, Grain Size, Diameter, Microstructure Analysis, Intergranular Corrosion, Pitting Corrosion, Positive Material Identification, Ferrite, and Macrostructure, among others. Also supports selecting suppliers who can deliver raw materials that meet the product specifications and evaluating supplier quality based on raw material quality and punctuality.

17. **Robotic Process Automation (RPA) Process (Optional)**

Evaluates emails received from customers to reduce the steps of checking and sorting emails and attachments that are customer orders. It also notifies the relevant staff.

18. **Optical Character Recognition (OCR) (Optional)**

Evaluates customer order formats sent to reduce manual order entry steps by using artificial intelligence to extract text from customer orders and automatically create customer orders in the Q.Soft system.

19. **Machine Connectivity via PLC (Optional)**

Based on the type of machine controller, we can develop functionality to control machinery through the Q.Soft program by integrating with a PLC program specifically designed to operate machinery according to the specifications of that machine's controller.

Benefits of the Program (Q.Soft SCM and Options)

1. **Cost Estimation**: Allows for price estimation using cost prices.

2. **Quotation Creation**: Enables the creation of quotations by applying production formulas to calculate production costs and adding margins for sales pricing.

3. **Sales Forecast Entry**: Provides a menu for recording sales forecasts or importing them from *.xls files.

4. **Order Entry**: Offers a menu for recording orders, which can be referenced from quotations or imported from *.xls files.

5. **Automated Order Processing**: Filters emails to place orders into a designated folder and automatically converts them into order data in Q.Soft.

6. **Production Planning**: Includes a menu for recording production plans for stock (Common).

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7. **Advanced Scheduling**: Allows for advanced scheduling and production planning from both customer orders and stock plans. Supports step-by-step planning, production planning for the entire production line, or mixed methods. Capable of planning for assembly lines, continuous manufacturing, discrete manufacturing, and processes like sawing wood or animal carcass butchering.

8. **Urgent Job Insertion**: Facilitates the insertion of urgent jobs, changes to existing production plans, or even modifications to released production orders, with various options based on the user's access rights.

9. **Long-Term Procurement Planning**: Enables planning based on sales forecasts for long-term procurement and confirmation back to customers.

10. **Combined Production Planning**: Allows for planning based on multiple sales orders to combine production planning and confirmation back to customers.

11. **Combined Production Planning**: Allows for planning based on combined Sale Orders and stock plans from multiple documents, enabling integrated production planning.

12. **Editable Gantt Chart**: Includes a Gantt Chart that allows for direct editing of production plans, making it easy to view overall schedules and adjust plans conveniently.

13. **Cost Management**: Executives can access cost estimates before production (depending on user permissions) and actual costs after production. This facilitates decision-making, production management, and cost accounting.

14. **Specialized Production Planning**: Supports planning for re-processing, re-working, and re-packing, and accurately calculates costs for these specific cases.

15. **R&D Production Formulas**: Supports the use of test production formulas (R&D) separately to avoid impacting the actual production formulas.

16. **QC Process and Certification**: Supports Quality Control (QC) processes, including

Non-Conformance Reports (NCR) and issuing Certificates of Analysis (CoA).

17. **Work Center Production Planning**: Supports production planning at work centers, even when production depends on fluctuating manpower.

18. **Increased Efficiency**: Reduces redundancy and speeds up processes in purchasing, warehousing, production planning, and shipping, making it easier to search, track information, and process data further.

19. **Inventory Management**: Facilitates warehouse management to maintain appropriate stock levels, reduce storage costs, and track movements of raw materials, semi-finished goods, and finished products in the warehouse.

20. **Cost Verification**: Allows verification of product costs using FIFO, Average, and Lot Specific methods.

21. **Enhanced Data Accuracy**: Increases data accuracy and reduces errors by using barcode scanning for data entry, minimizing the need for keyboard input (depending on system design).

22. **Planning Support**: Provides tools to support production planning, purchasing, and warehousing units in meeting organizational policies.

23. **Flexible User Access Control**: Allows for independent configuration of user access rights for all menus.

24. **Customizable Forms**: Enables the creation of custom forms by using data from the system's structure immediately.

25. **Data Export**: Supports data export in various MS Office file formats (.doc, .docx, .xls, .xlsx, .vsd, .mpp, .mppx, .accdb, .rtf, .txt, .pdf, .xml), depending on the report or menu.

26. **User Activity Monitoring**: Allows monitoring of each user's activities, including what actions were taken, on which days, and at what times.

27. **Multi-Company, Multi-Branch, Multi-Factory Support**: Supports operations across

multiple companies, branches, and factories.

28. **Multi-Level BOM:** Allows the creation of multi-level Bills of Materials (BOM) with unlimited levels, supports simultaneous work on multiple formulas, processes up to 12 decimal places, and maintains BOM revision history.

29. **Resource Planning:** Provides various resource planning options to simulate the most appropriate production routes, such as meeting all orders on time or minimizing inventory levels while managing production costs.

30. **Language Support:** Available in both Thai and English.

31. **Multi-Currency Support:** Supports multiple currencies.

32. **Master Plan Scheduling Report:** Provides a summary report of the master plan scheduling.

33. **Master Productivity Report:** Offers a summary report of productivity.

34. **Machine Efficiency:** Measures the overall equipment effectiveness (OEE) of each machine and compares performance.

35. **Inventory Management System:** Manages inventory including receiving purchased goods, returning raw materials to suppliers, issuing raw materials for production, receiving finished goods, returning raw materials from production, transferring goods between warehouses, shipping to customers, returning goods from customers, and stock counting. Supports both barcode scanning and mobile phone usage (Option).

36. **Lot Traceability:** Provides both Backward Traceability and Forward Traceability.

37. **Sub Lot and Serial Number Management:** Supports management of products using Sub Lot and Serial Numbers.

38. **Pre-Production Cost Estimation:** Provides the ability to determine the cost of goods before production.

39. **Cost Allocation:** Allows for cost allocation to view the true cost of products.

40. **Waste and Defect Tracking**: Tracks and displays scrap, waste, and defects.

41. **QC Summary**: Provides a summary of quality control analysis results.

42. **Finished Goods Packaging**: Supports packaging of finished goods according to customer requirements or company standards.

43. **Packaging Formulation**: Defines packaging formulas (e.g., Boxes, Crates, Cases, Pallets) including weight limitations for each type of packaging.

44. **Production Status for Customer Spec Changes**: Displays production status for customers who frequently change product specifications, facilitating better understanding between manufacturer and customer.

45. **Gross Profit Analysis**: Provides gross profit information for each product sold.

46. **Product Reservation**: Allows reservation of products for sale and production, differentiating between On-hand Stock and Available Stock for each product.

47. **Consolidated Order Summary**: Summarizes orders of the same product across different customers.

48. **Forecast vs. Actual Sales Report**: Compares forecasted sales and actual sales for each customer, either by price or quantity.

49. **Reorder Point Alerts**: Alerts when stock levels reach Reorder Points and Safety Stock levels.

50. **Location and Shelf Management**: Supports management of storage locations and shelves.

51. **Pallet Management**: Manages pallets as company assets.

52. **Multi-Shift and OT Management**: Supports multi-shift operations and overtime to increase production capacity.

53. **Fixed Date Maintenance Scheduling**: Allows scheduling of maintenance tasks on fixed dates.

54. **Periodic Maintenance Scheduling**: Schedules maintenance based on a fixed

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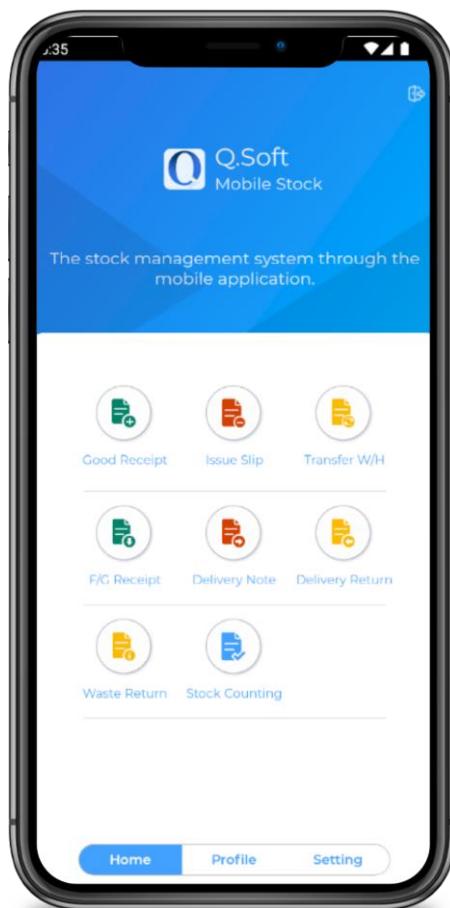
number of days.

55. **Resource Downtime Management**: Defines downtime for resources such as machinery, molds, and equipment, and integrates this with the production scheduling system.

56. **Work Order Management**: Allows creation, closing, and cancellation of work orders as appropriate.

57. **External Repair Services**: Supports hiring external services for repairs.

58. **Maintenance History**: Records the history of machine maintenance.

59. **Emergency Repair Notifications**: Supports emergency repair notifications.

60. **Detailed Performance Data**: Stores detailed performance data for future maintenance reference.

61. **Maintenance Cost Summary**: Summarizes repair costs by work order and allows for cost allocation.

62. **Dashboard Report (Power BI)**: Provides a Power BI Dashboard for efficient and quick data analysis.

63. **Import Documentation**: Manages import documentation, including Bill of Lading, Packing List, and Invoice.

64. **Export Documentation**: Manages export documentation, including Bill of Lading, Packing List, and Invoice.

65. **Customs Reports**: Includes customs reports such as import reports, export reports, loss reports, temporary export reports, inventory reports, and product movement reports.

66. **Standard Export Packaging Database**: Maintains a database of standard packaging requirements for export.

67. **Draft Export Packaging Documents**: Prepares draft documents for export packaging.

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68. **Export Packaging Orders:** Manages orders for packaging according to export standards.

69. **Shipping and Transport Booking:** Facilitates booking of ships and vehicles for export.

70. **Material Specification Matching:** Matches and verifies material specifications to meet customer requirements, including chemical composition, mechanical properties, impact tests (NDT-DT), hardness tests, magnetic properties, radiographic tests, liquid penetration tests, grain size, diameter, microstructure analysis, positive material identification, macro etching, ferrite (NDT-DT), and material inspection certificates.
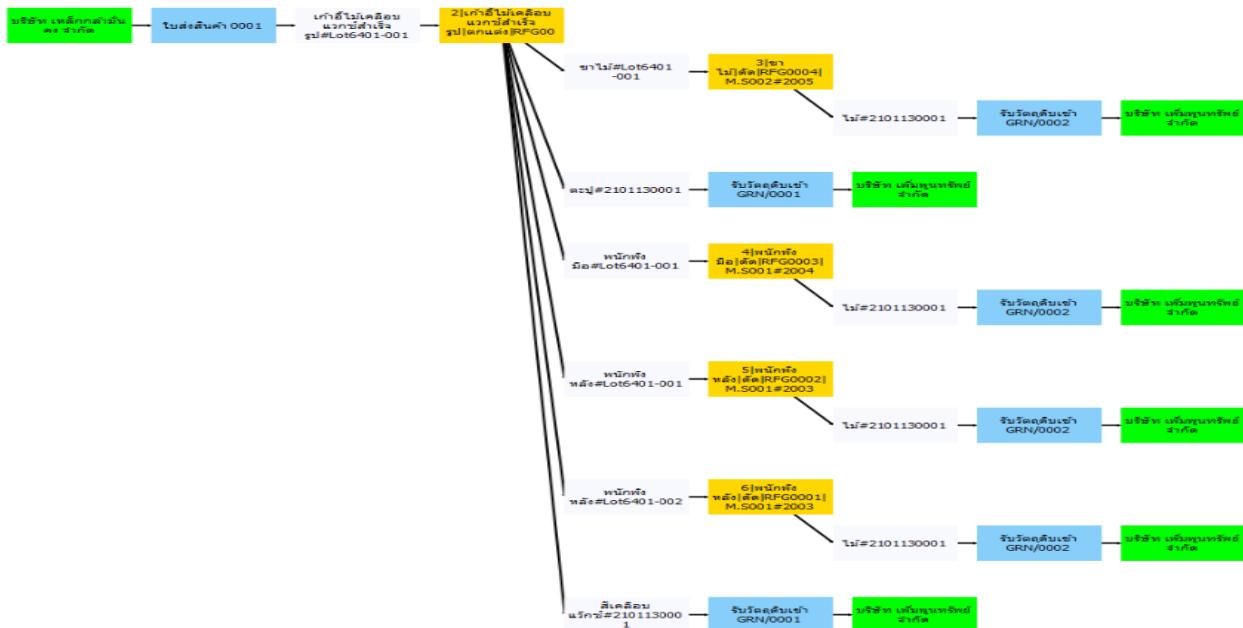
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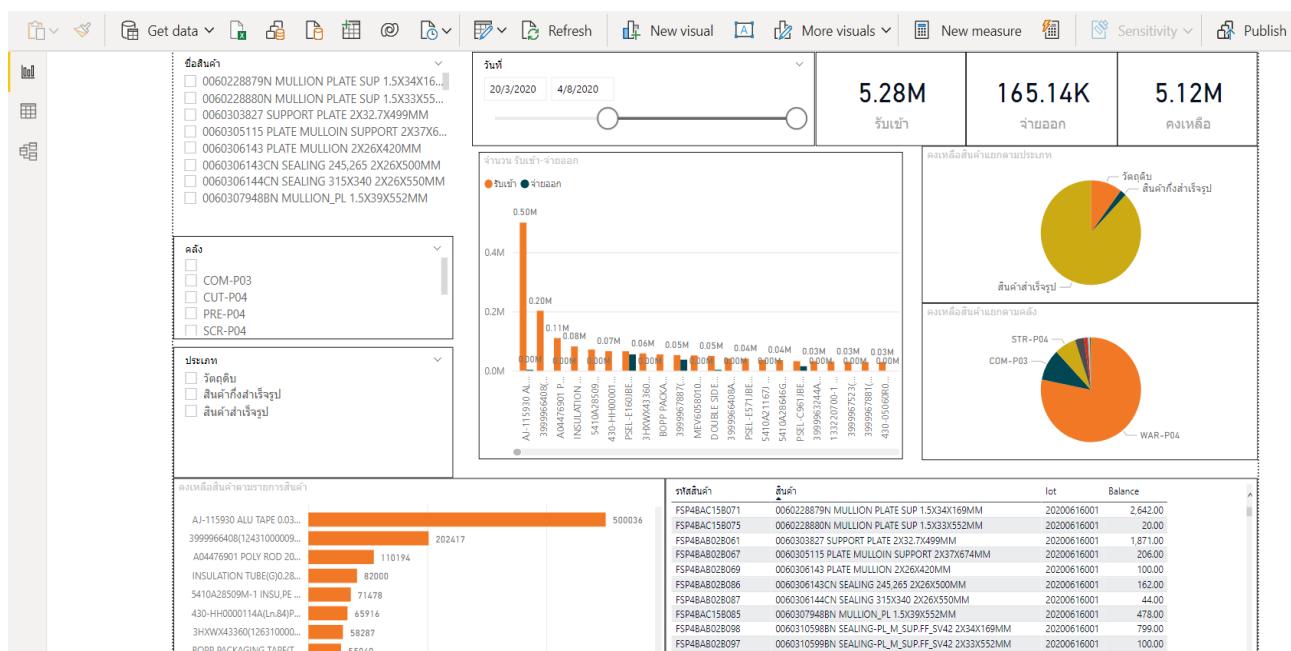
- Sample Report in the Program.

Lot Traceability Report.

Sample Dashboard Report.

Get data | Refresh | New visual | More visuals | New measure | Sensitivity | Publish

สาเหตุของเสีย	รายการสินค้า
All	All

รายการสินค้า

20/7/2020   4/8/2020

Defect (%)

ปั้มกระดาษแตก
ปั้มงานผิดแม่พิมพ์
ปั้มขึ้นงานฉีกขาด

18,500.0   99.97%   100%

15,000.0

55.2%

10.0

Defect Product

แผ่นกระดาษขนาด 91X166C...	16.0K
9816693 ADHESIVE FOAM...	15.0K
ALUMINIUM TAPE 35MI...	2.5K
AJ-115930 ALU TAPE 0.03...	0.0K

สาเหตุการเสีย	ชื่อสินค้า	จำนวนคุมสต็อก	ล็อต
ปั้มงานผิดแม่พิมพ์	9816693 ADHESIVE FOAM 5X30X75MM	15,000.00	1900121
ปั้มกระดาษแตก	AJ-115930 ALU TAPE 0.03X100MMX50M	10.00	154241
ปั้มขึ้นงานฉีกขาด	ALUMINIUM TAPE 35MICX50MMX50M	2,500.00	1900121
ปั้มขึ้นงานฉีกขาด	แผ่นกระดาษขนาด 91X166CM เกรด I125/M 5BC	16,000.00	1876001
Total		**33,510.00**	
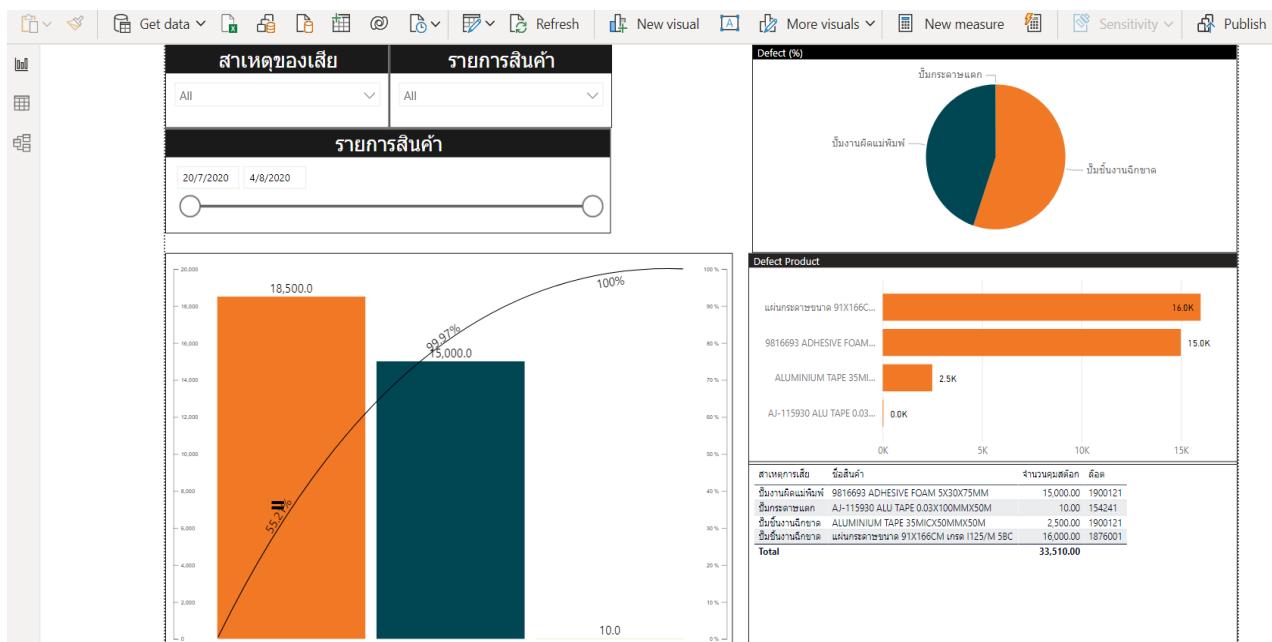
DAILY COMPLETE

Date	Time 4:45:00 PM	WC1 OFF	WC2 OFF	WC3 OFF	WC4 OFF	WC5 OFF	WC6 OFF	WC7 OFF	SHIFT	450
22-08-23	Takt Time	12	10	12	12	12	12	12		0

TARGET (EFF%)	SHOP	PLAN	PLAN (Real Time)	ACTUAL	DIFF	DELAY (min:sec)	PROD.(%)	EFF.(%)	Rework	Buffer Stock
97	W1	40	39	39	1	45:00	97.5	96.58	0	9/20
97	W2	50	50	50	0	0:00	100	100.00	0	11/20
97	W3	40	40	40	0	0:00	100	100.00	0	11/20
97	W4	40	40	40	0	0:00	100	100.00	0	11/20
97	W5	40	41	40	0	0:00	100	100.00	0	12/20
97	W6	40	41	40	0	0:00	100	100.00	0	12/20
97	W7	40	41	40	0	0:00	100	100.00	0	12/20

**** Get Customize Programs in both Input and Report sections

Q.Soft

BCI Interview by INET. (Q.Soft)

Q.Soft Manufacturing ERP

Q.Soft get APICTA 2019 merit reward

Q.Soft Experience in APICTA 2019 ceramony

Q.Soft upgrade your manufacturing to industry 4.0

Q.Soft ERP Industrial IoT

Tbelco Co., Ltd.

Interview with Siam Industrial Tape Co., Ltd.

Using Q.Soft

Power of Science for Thais

Episode: Solving Furniture Business Challenges

with Digital Technology