

TIMS

Textile Integrated Management System

TIMS Overview

Specialized Software for the Textile Industry

The textile sector is an industry with unique requirements. Textile companies have various levels of vertical integration with a range of manufacturing processes and management requirements.

Aditya Infotech has been designing, developing and implementing solutions exclusively.

Dedication is the key to the Aditya Infotech development strategy.

Specialization is the foundation of service to its customers.

Aditya Infotech's technological know-how and application skills have resulted in the success of its solutions.

- ERP (Enterprise Resource Planning)
- SMS(School Management System)
- Inventory and Account
- Website Development

The **Aditya Infotech** structure has been designed to cater to:

- The customer's **needs**
- The customer's **practices and produces**
- The customer's **competences**

Aditya Infotech:

- Has the expertise required presenting a detailed and realistic offering to the **any kind of industries**.
- Has product and skill to implement the required functions of our solutions while **respecting the cost and time budgets** ("On time and within Budget").
- **Guarantees** its customers that **TIMS** will be supported for years to come.

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Textile Integrated Management System

Beyond Technology

Run TIMS to Win

The Benefits of TIMS

All Costing Information with unique database

Business process streamlining

Optimal use of manufacturing resources

Monitoring of profit margins

Quick response

Improved customer service

Higher quality, less waste

Reduction of work in process (WIP) and inventory

On-time delivery

Industry **decision** makers naturally have rapid access to information, but the most pressing need is **to have answer** to critical **questions** such as "What happens if ...?", "How can we...". Using **TIMS**, textile industry managers at last have an approach, and not simply a technology, for obtaining tactical and strategic responses to decision-making questions.

TIMS becomes a repository for the whole organization's business expertise, organizational and manufacturing skills, integrating them in real time with know-how and professional experience of its staff. This makes **TIMS** a powerful business intelligence tool and service of any Industry.

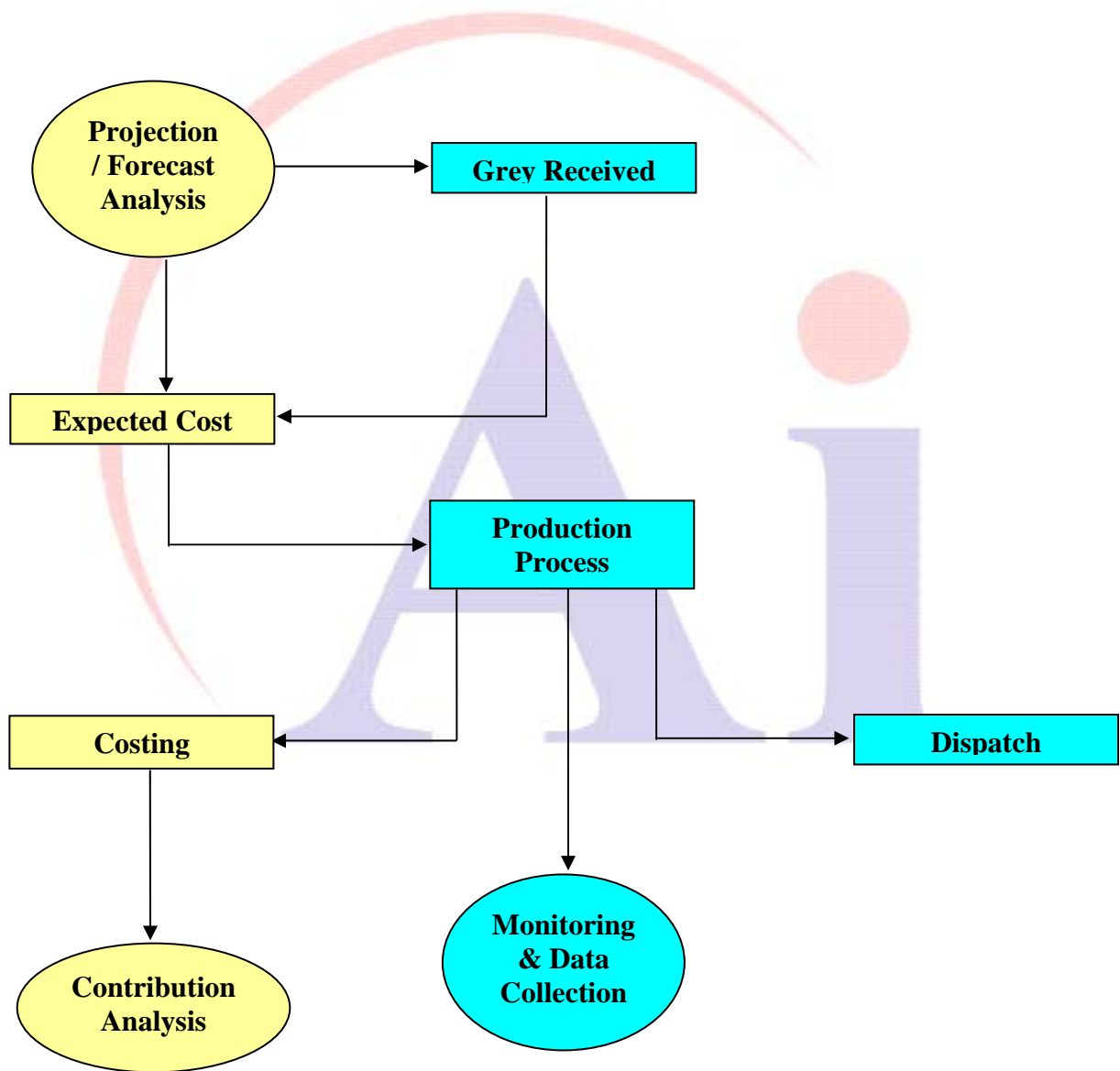
One TIMS, many functions

Modular in structure, **TIMS** not only provides a user friendly environment that can be tailored to the **need of the company** both large and small. Further, it can also be progressively expanded both in the "horizontal" sense, to embrace additional organization functions, as well as "vertically", to integrate other stages of the production process.

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Highlights of TIMS Structure and Functions



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Application Area: Dyeing, Printing and Finishing

The ability to calculate correct variances and post them Accurately is critical to the wellbeing of all textile industries

All production activities, including dyeing, printing and finishing, are planned, launched, and monitored with TIMS. When processing dye or print batches, TIMS handles the entire production process, from recipe calculation to the reservation of raw materials required from the warehouse. Further, it is possible to group more than one production order into a single dye lot, or to divide a large dye order into multiple batches.

TIMS Solution Highlights:

- Launch **Dyeing, Printing and Finishing** operations on line.
- Calculate Process Lot **Formulas**.
- Calculate Process Lot Material **requirements** according to the quantities, **needed to begin the job** or the quantity to be produced, making considerations for **elongation/shrinkage** and **waste** factors.
- Calculate **amount of material** required to carry out a printing job by design per colour variant.
- Apply user defined technical data to processing steps.
- **Trace Production** by batch, piece, or location, etc.
- Interface with dyeing and printing **monitoring systems**.
- Correct and thorough **control of each production process** to maximize volume and profits for each individual department, and of the entire company.
- Be able to track production to find and prevent **defective lots**.
- **Reduce waste** by properly defining the production standards and monitoring production process.
- Perfect **communication** between Sales and Production so problems can be identified before printing and dyeing.

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TIMS Commission/Converter Processing/External Operations

*The tracking of the inventory
The tracking of the processing
Design/Shade wise costing
Lot wise costing*

Application Area: Costing

Cost control has always been a major problem for manufacturing companies. In order to maintain stable budgets, costs are being singled out and examined directly, carefully, and systematically. Companies have begun calculating standard production costs with the help of tools that, while ignoring the production process, are still an improvement over former costing done on the basis of past experience. Increasing market competitiveness continually forces companies to make greater efforts to vary products, adopt new technologies, and reorganize.

Consequentially...

- They must deal with ever-changing costs.*
- Standard costs alone are not enough; actual costing and variance analysis are a must.*
- Calculation of costs is increasingly more complex since raw materials prices may vary throughout the year.*
- It is impossible to maintain an accurate cost system that does not take into consideration production plans and product mix.*
- A company must determine the profit margin for each product manufactured without ignoring the possibility of cost variations, a change in the production plan, or how it is actually manufactured.*

Highlights of TIMS Solution

- Calculates standard costs** for all items and processes.
- Calculates profit contribution margins**
- Indicates the production mix** required to maximize **profitability**.
- Calculates actual production costs** and indicates **variances** from standard costs.

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Standard Costs

The information Stored with the **Bill of Material** and the operations' technical data (work centers, **recipes**, routing flows, and print designs, etc.) helps to define and **manage standard cost** on the basis of:

- Raw material requirements
- **Labor and Overhead** consumptions
- Production capacity needs

TIMS supports both full burden and absorption costing (direct and indirect costs) along with profit contribution margin costing and **Activity Based Costing (ABC)**. It provides finely **detailed costing** roll-ups that can be used as a basis for quoting, and can be used as the core of a **standard costing system**. It allows for the critical analysis necessary to operate in a global market.

TIMS Standard Cost Details

- Cost elements are **user defined** through tables based on parameter settings. They can be set for cost or consumption (for example labor).
- Cost elements can be applied to **various levels**, such as Process flow steps.
- Cost elements can be dynamically divided as **direct or indirect costs** without a rigid distinction and grouped by type.
- Standard cost can be calculated by **product and process**.
- Calculate the **profit contribution margin** by a machine-hour product or by a process flow.
- Calculate product costs using the **complete or partial** items.
- Explode cost calculation to **lower levels** of the Bill of Material.
- Query cost by **cost center**, work center and cost element type.
- Query cost of materials, internal production, external production, interest and below standard quality.
- Make **production plans** for a period to determine profit contribution margins.

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Actual Costs

TIMS enables the use of standard costing and the gathering of manufacturing **variances** at all levels. Each product is linked to one or more routing that contains all the information necessary to both roll up a standard cost and **freeze a product cost**, as the user requires.

- Standard budget cost (**at the beginning** of the period).
- Current standard cost (**actual cost** reference).
- **Planned cost**, based on planned flows (flow indicated on manufacturing order).
- **Actual cost** of production orders (from data collection).

TIMS Actual Costs Additional Details

- Show the differences between standard cost and actual costs.
- Evaluate entry movements coming from internal operations.
- The ability to have flows, that archive product's standard cost, current flow for recent methods.
- The ability to close orders and rationalize earning base on goods actually produced from a production order.

TIMS is developed by **Aditya Infotech**.

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