

# Production Efficiency Analysis

## Report Module Guide: Production Efficiency Analysis

### Module Location

Production > Reports > Production Efficiency Analysis

### Module Objective

The **Production Efficiency Analysis Report** module is used to generate an analytical report that measures the overall efficiency of the production process. This report calculates key metrics such as **Performance**, **Quality**, and **Overall Equipment Effectiveness (OEE)**, which are industry-standard indicators for evaluating how effectively manufacturing operations are running.

## 1. Report Parameters (Filter)

The main page of this module is a form containing various parameters to customize the report that will be generated.

Here is an explanation for each parameter:

- **Document Date:** Specify the production date range in the **From** and **To** fields for which you want to analyze efficiency.
- **Report Type:** Select **All** or **selected** to filter by a specific report type.

- **Item:** Select **All** or **selected** to focus on the production efficiency analysis of a specific item.

## 2. Steps to Generate the Report

### Step 1: Set Report Parameters

Define the **Date** range you wish to analyze.

### Step 2: Generate the Report

After all parameters are set, click one of the two buttons at the bottom:

- **[Display Report]:** To preview the efficiency analysis report directly on your screen.
- **[Export to MS Excel]:** To download the report data in an Excel file format.

## 3. Reading the Report (Report Content)

The generated report is a detailed efficiency analysis, grouped by date and product item.

### Key Column Explanation

- **Available:** The expected input quantity or standard (usually 100%).
- **Performance (%):** Measures the production speed compared to the standard or ideal speed. A number below 100% indicates production is running slower than it should.

- **Quality (%)**: Measures the ratio of good products produced compared to the total products produced. A number below 100% indicates the presence of defective products (rejects).
- **Overall Equipment Effectiveness (%)**: This is likely the OEE metric, which is calculated from the multiplication of **Availability**, **Performance**, and **Quality**. OEE is the primary indicator of overall manufacturing efficiency.

## Tips & Important Notes

- This report is an advanced performance analysis tool that is crucial for **Production Managers, Process Engineers, and the Continuous Improvement team**.
- Use this report to identify which area (**availability, performance, or quality**) is the main cause of inefficiency and needs improvement.
- The world-class OEE target is typically above 85%. Compare the results of this report with your company's target.

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