Production Deviation

Report Module Guide: Production Deviation Report

Module Location

Production > Reports > Production Deviation

Module Objective

The **Production Deviation Report** module is used to generate an analytical report that highlights deviations or variances in the production process. This report compares actual data with standards or targets for key metrics such as **material usage** and **machine duration**, in order to identify inefficiencies.

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:

- **Section**: Select **All** or **Selected** to focus on a specific production section.
- **Work Order Date**: Specify the date range in the **From** and **To** fields for the Work Orders to be analyzed.
- **To Compare**: Check the metrics you want to compare:

- **Material**: To analyze material usage variance (actual vs. standard BOM).
- **Machine Duration**: To analyze machine usage duration variance (actual vs. standard cycle time).

2. Steps to Generate the Report

Step 1: Set Report Parameters

Define the date range and the metrics (**To Compare**) that 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 deviation 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 comparative analysis between standard and actual for the metrics you have selected.

Key Column Explanation (if Material is selected)

- **Material**: This section will detail every raw material used.

- **Qty vs. Unit vs. Actual**: These columns will compare the standard quantity (from the BOM) with the actual quantity consumed. The difference shows the material usage variance.

Key Column Explanation (if Machine Duration is selected)

- **Machine Duration**: This column (if selected) will display a comparison between the standard machine time and the actual machine usage time. The difference shows the machine time efficiency.

Tips & Important Notes

- This report is a very important analysis tool for **Production Managers** and the **Continuous Improvement** team.
- Use this report to identify the main causes of inefficiency on the production floor, whether it is **material waste** or **suboptimal machine time**.
- This report's data is pulled from a comparison between **standard data (BOM, standard cycle time)** and **actual data** recorded in the **Work Order Transaction** module.

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