**Abstract**

Pareto Analysis is a statistical technique in decision-making used for the selection of a limited number of tasks that produce significant overall effect. It uses the Pareto Principle (also known as the 80/20 rule) the idea that by doing 20% of the work you can generate 80% of the benefit of doing the entire job. In the late 1940s Romanian-born American engineer and management consultant, Joseph M. Juran suggested the principle and named it after Italian economist Vilfredo Pareto, who observed that 80% of income in Italy went to 20% of the population.

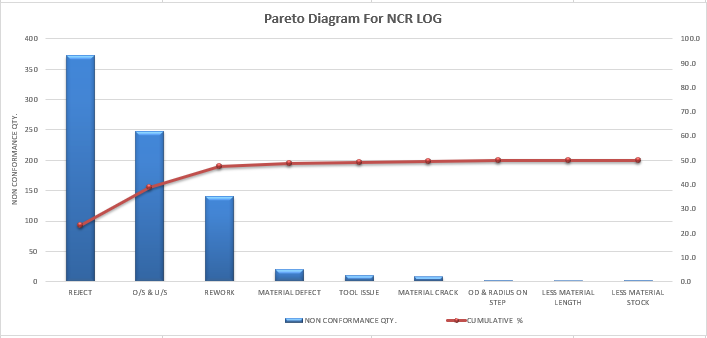
We can apply the 80/20 rule to almost anything:

* 80% of customer complaints arise from 20% of your products and services.
* 80% of delays in the schedule result from 20% of the possible causes of the delays.
* 20% of your products and services account for 80% of your profit.
* 20% of your sales force produces 80% of your company revenues.
* 20% of a systems defects cause 80% of its problems.

The Pareto Principle has many applications in quality control. It is the basis for the Pareto diagram, one of the key tools used in total quality control and Six Sigma. Main objective of this project was to analyse and work on the most common errors for the rise in non-conformances.

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**Problem Defination and Scope of Work**

There were so many Non-conformances increasing daily due to common errors. The scope of work was to analyse the recorded data to get brief idea about the non conformance rise.

**Working**

Main work done for this was record the non conformance log fom hard copy to soft copy however the no. of errors were categorised to specific elements shown in chart shown above , by formulating the chart calculation was done and graph was plotted. Over the common errors the solution were prescribed.

**Advantages**

1. Helped to acknowledge critical issues in simplified manner.
2. Helped in focusing on the other work as the format is prepared.
3. Formulating the sheet helped calculation easy and quick.

**Disadvantages**

1. Staff may feel they have more work to do.
2. Difficulty in collecting accurate, relevant defect information.

**Future Scopes**

This analysis will help in prioritizing the efforts focused on the most impacting issues and handle the workload accordingly.

**Result & Discussion**

Most of the time analysing the non-conformances time was wasted before as for the analysis purpose only which has been recovered by use of this sheet.

**Conclusion**

Working on this project helped the industry as well as myself personally to gain knowledge as well as the helped in optimizing the idle time for the effective and efficient use.

**Stamp :**

Seal of Company

Seal of College