

SERVICE

CONDUCT STUDY



LOCATE SYSTEM



MONITOR PERFORMANCE

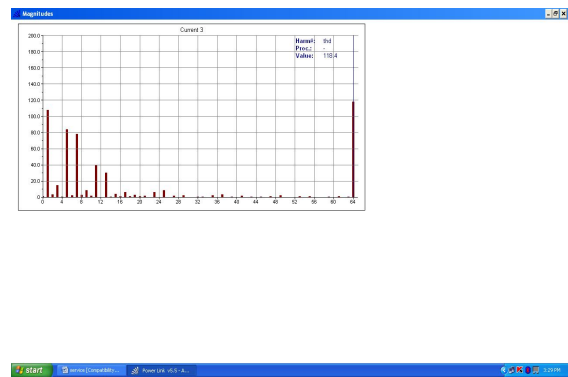
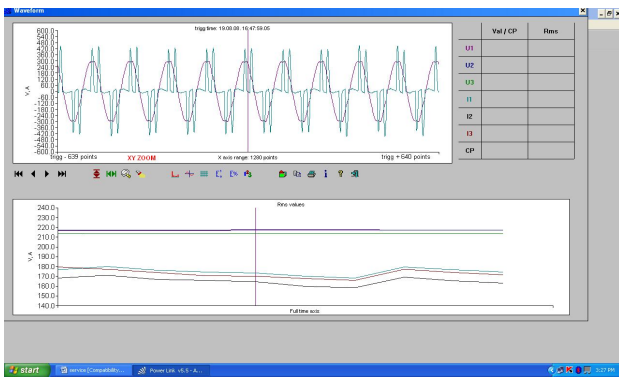
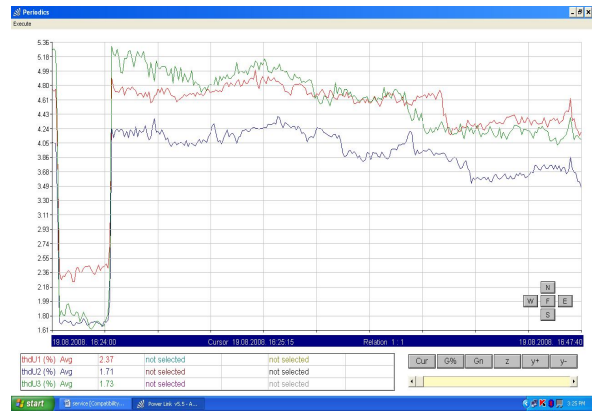
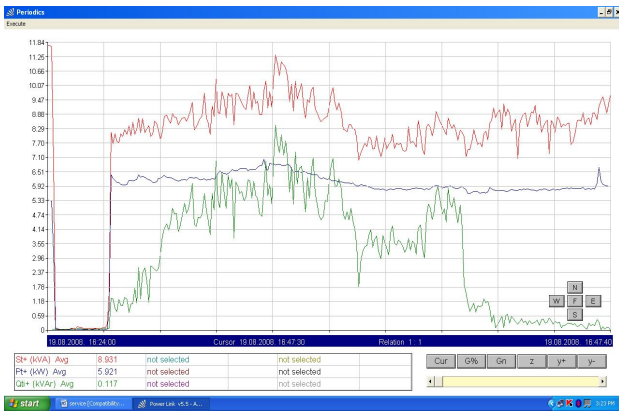


In today's scenario, increased cost of Energy makes many industries to focus on effective usage of the available energy & facility resources.

Power quality is an issue that is becoming increasingly important to industries to reduce Energy Cost. The present industrial facilities have been equipped with many electrical and electronic devices for ever increasing demand of industry and commerce for stability, adjustability and accuracy of control to increase productivity; better quality of products; decrease the cost to customers etc. However, these power electronic equipments raise the likelihood of potential interaction with distribution systems leading to power quality issues. As a result of this increase in equipment vulnerability, the owners of industrial processes have experienced unexplained process interruptions and unplanned equipment shutdowns.

The great importance of Power Quality studies is in planning the future expansion of power systems as well as in determining the best operation of existing systems.

With a view to identify the Quality of Power in an Industry, we conduct an exhaustive study over a reasonable period of time under differing load conditions to measure & quantify : Consumption Pattern of Load; Electrical Parameter Variation, Current & Voltage Distortion etc



Power Factor Study

A Power Factor Study is conducted to assess the requirement of the Capacitors and also to determine the location & sizing of the system, method of operation, its implication on the distribution network.

This study is useful in the existing power system, particularly those experiencing : High Electricity Tariffs, Penalty for Power Factor & Non availing Power Factor Incentives.

In some cases, it may be necessary to install a harmonic reactor(s) to avoid excessive amplification of harmonics.

Harmonic Study

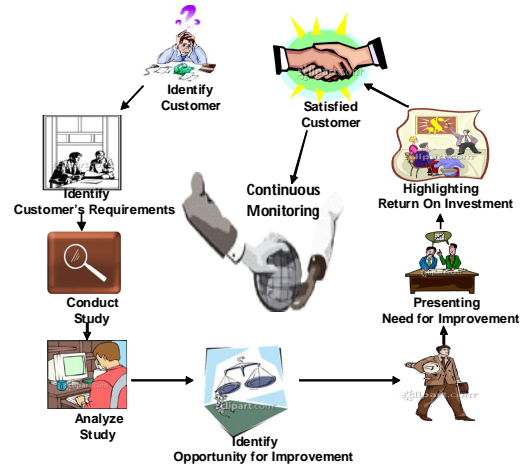
A harmonic study is conducted to assess the level of harmonic voltages and currents and determine whether they are within the acceptable Specified Limits for Harmonics.

This study helps to determine the System required viz., Passive / Active, Location of the system, Sizing of the System, Tuning Frequency of the System, its implication on the distribution network etc.

This study is useful in the existing power system, particularly those experiencing : High Electricity Tariffs, Penalty for Power Factor, Non availing Power Factor Incentives, Malfunctioning of the sensitive electronic devices, Higher mechanical & electrical stress leading to premature failure of the connected equipment etc.

SASHTHA's APPROACH :

- Obtainment of information about the problems being faced.
- Obtainment of Single Line Diagram of the Plant / Relevant Details.
- Identification of the nodes for carrying the Study.
- Carrying out Study in relevance to the site condition.
- Analyzing the Study using Special Software.
- Submit Proposal highlighting Type & Location of System, Rating of the System and Projected Improvement.
- Cost Saving.
- Pay Back Period.
- Continuous Monitoring of the System Performance.
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BENEFITS OF STUDY :

- Provide cost effective way to effectively and efficiently use the existing resources / plan for the required resources for a new plant.
- Locate and avoid potential deficiencies in the power system.
- Analyze the effects of changes or additions to the system.

PERFORMANCE MONITORING

A Tool to reduce Energy Consumption and Peak Demand by having consolidated Energy information.

The performance of the system can be monitored by collection of power parameters at Centralized location using communication links without human intervention to manage & optimize the Energy Usage and to reduce Overall Maintenance Cost.

On Line network of meters connected to a flexible, user friendly, configurable software enables preparation of concise & meaningful reports, which helps to analyze energy consumption records to determine where, how and how much energy is being used in the plant to identify any obvious areas of wastage together with the most promising areas for potential savings

