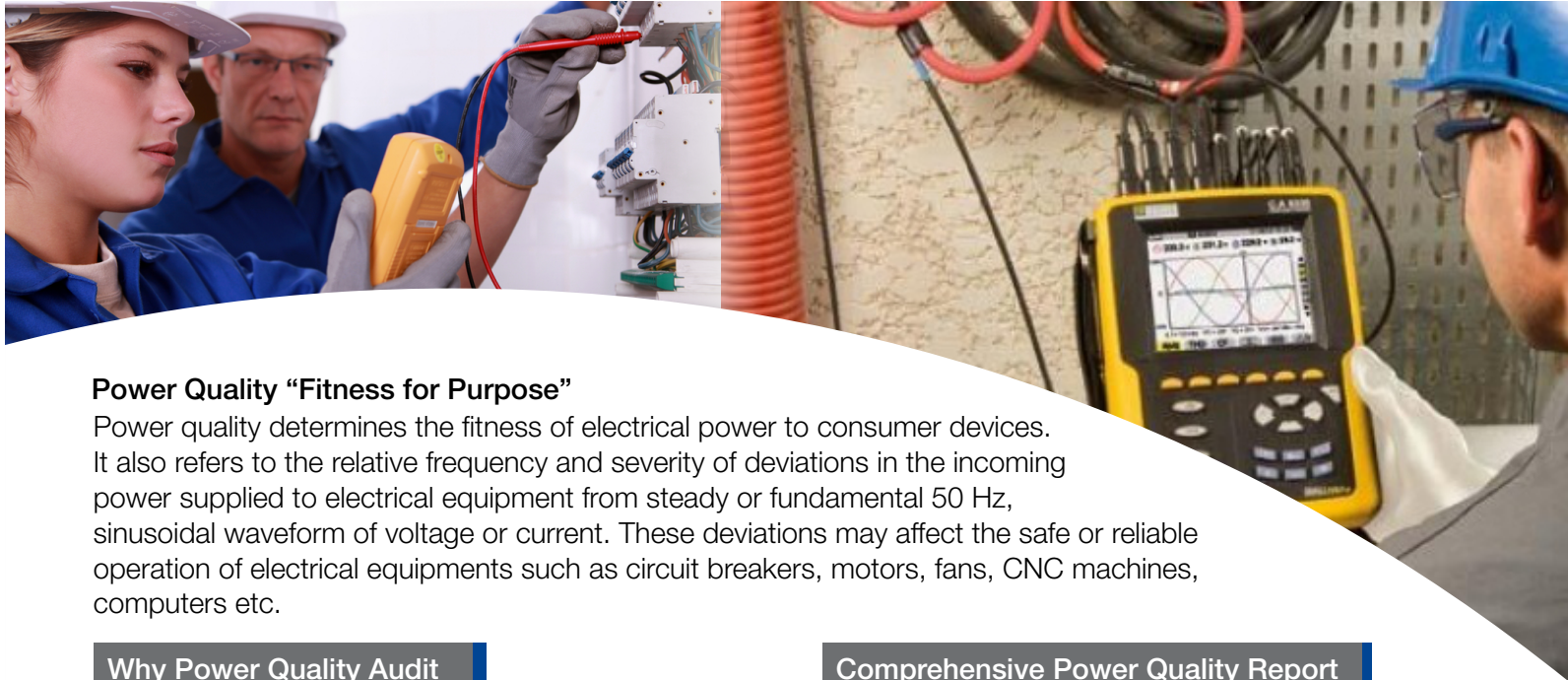


POWER QUALITY AUDIT

as quality brings efficiency and life



Power Quality “Fitness for Purpose”

Power quality determines the fitness of electrical power to consumer devices. It also refers to the relative frequency and severity of deviations in the incoming power supplied to electrical equipment from steady or fundamental 50 Hz, sinusoidal waveform of voltage or current. These deviations may affect the safe or reliable operation of electrical equipments such as circuit breakers, motors, fans, CNC machines, computers etc.

Why Power Quality Audit

- Improves the power quality and brings in efficiency
- Helps to identify and eradicate Harmonics which minimises line losses and minimise reduction in the equipment lifetime due to harmonics.
- Helps to identify and eradicate transients to avoid short-duration change in voltage
- Helps to identify and eradicate hours-long voltage sags caused by system overload
- Improve and maintain continuous supply of quality electricity supply

Our Approach for Power Quality

Pre-Audit and Data Verification:

- Pre-audit information based on walkthrough of facility and discussion with plant personnel
- Study of past trend and direct site readings is also undertaken

Comprehensive Power Quality Report

- Includes site visit, data collection and analysis followed by recommendations
- Comprehensive audit report will contain the information of source of power quality problems and appropriate solution to the same
- Identification of vendors and corresponding quotations is also provided to the client

Process Flow

Offer from TUV India based on the information provided



Pre-Audit and Data Verification



Site visit interviews
Data verifications
Data processing
Determination of source of power quality problems
Solutions on achieving power quality
Quotations from vendors on prescribed solutions



Discussion on results/ Scope of improvement/
Recommendations and conclusion in form of
Comprehensive power quality report



Our Expertise

- TUV India has been closely associated with several energy efficiency improvement projects
- Pool of experienced Power Quality Experts to conduct detailed Power Quality Audit in all types of industries e.g. Chemical & Petrochemical, Cement, Power, Tyres, Paper, Automobile, Textile and Textile Processing, Paints, Pesticides, Fertilizer, Steel, Engineering, Ceramic, Synthetic Fibers, Hotels and Commercial Buildings etc.
- Registered with **BEE** (Bureau of Energy Efficiency), **MEDA** (Maharashtra Energy Development Agency), **GEDA** (Gujarat Energy Development Agency), **PCRA** (Petroleum Conservation Research Association), **KEMA** (Energy Management Centre - Kerala), **NREDCAP** for undertaking Energy Audits

Our Slogan

Making our world safer

Scope

The following components will be included in the Electrical Harmonic Analysis and Survey

- System voltage RMS
- System current RMS
- Active and reactive power
- Power factor (Instantaneous)
- Data collection from site
- Voltage improvement & stability study
- Harmonic measurements along with specific harmonic filtering at normal operating conditions
- Three phase balancing study
- Surge & transient protection, study
- KVA capacity release
- Harmonic analysis
- Surges and transient analysis
- Voltage dips swells analysis
- Reactive power analysis
- Captive power analysis
- Load flow analysis

POWER QUALITY AUDIT TUV INDIA PVT. LTD.

Contact Us

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