



Power Quality Assessment

With the advent of Power Electronic devices in domestic, industrial and commercial applications, Quality of power supply has become a burning issue. Voltage dips, Voltage swells, unbalance in Voltage & Current, harmonics in the system etc has a significant impact on the performance of equipment and the electrical system.

The first step in improving the performance of equipment is to measure the power quality. Lord Kelvin's famous quote says- "If you cannot measure it, you cannot improve it".

Once parameters related to Power Quality are accurately measured, efficiency of equipment, compliance/non- compliance with relevant standards and regulations can be established.

In this endeavour, Power linkers offers this service for the past two decades for the complete requirement of Power Quality assesment

Power linkers carries out measurements with the state of art "Fluke 435 – II" Three phase power quality analyzer and its software "Fluke Power Log".

POWER LINKERS

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Major features for assessment offered are :

SR. NO	FEATURE	APPLICATION
1.0	Harmonic Measurement	<ul style="list-style-type: none"> • Overheating / Failure of power equipments, Electronic circuits etc. • Poor Power Quality.
2.0	Power and Energy Parameters	<ul style="list-style-type: none"> • Measurement of power and energy parameters in system, • Calculation of Energy losses in system and • Verification of MFM meter's for its electrical parameters being measured.
3.0	Voltage Sags / Dips	<ul style="list-style-type: none"> • Motor stalling condition, • Tripping of contactors, • Dimming of lights and • Tripping of VFD's.
4.0	Voltage swells	<ul style="list-style-type: none"> • Failure of Power equipments due to overvoltage's.
5.0	Transient waveform capture	<ul style="list-style-type: none"> • Finding the root cause of failure of power equipments due to fast transients.
6.0	Unbalance Voltage and / or Current	<ul style="list-style-type: none"> • To avoid over loading of any one phase and assisting in load re-distribution. • To avoid failure of induction motor due to unbalance.
7.0	Inrush Currents	<ul style="list-style-type: none"> • To measure, <ol style="list-style-type: none"> a. Transformer charging current. b. Second harmonic inrush current in transformer. c. Motor starting current and starting time.
8.0	Flicker	<ul style="list-style-type: none"> • To identify rapid variation in voltage causing the lights to dim / flicker.
9.0	Transients	<ul style="list-style-type: none"> • To record high value of voltage and current transients with time duration of 15 ns to 50 ms.
10.0	Class-A Compliant	<ul style="list-style-type: none"> • Verification and calibration of tariff and energy meters
11.0	Event Capture and logger	<ul style="list-style-type: none"> • Record various parameters in plant for long duration.
12.0	Reporting according to IEEE 519 and EN50160	<ul style="list-style-type: none"> • Comply the guidelines of state electricity regulation for Power Quality Measurement.
13.0	Internal data storage	<ul style="list-style-type: none"> • This meter with its internal storage capacity continuously records the parameters for 21 days.

We offer comprehensive measurement and analysis services for "Power Quality Assessment" with qualified and experienced man power.

In case, if you are looking for any of the above services you may forward your enquiry/ requirement.