ALL KINDS OF TRANSMISSION LINE STRINGING TOOLS & EQUIPMENT
ALL KINDS OF STEEL WIRE ROPES & SLINGS MANUFACTURED BY

OMEGGA POWER INDUSTRY PRIVATE LIMITED

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The Indian Power sector scenario remains gloomy, surrounded by the dark clouds. Although some Power reforms started about a decade back, the achievements are only dismal. Financial health of most of the State Electricity Boards (SEBs) remains critical, mainly due to the uncontrolled use of low efficiency. Power wastage, Equipment and Appliances, back breaking heavy subsidies for agricultural and some other sectors, and huge power thefts and pilferage resulting in heavy loss of revenue for the State Electricity Boards (SEBs) and other Utilities. The major problems faced by the Power sector are due to increasing gap in the Demand and Supply of Power, High Transmission and Distribution (T&D) losses as well as Power theft/Pilferage and wastage of expensive and limited Energy due to the use of Low Efficiency Equipment in various sectors. The prescription and implementation of Energy Conservation building codes has to be done in consultation and cooperation by Central & State Governments which will have the major powers.

Energy Conservation:
The Energy Conservation Bill-2001 was passed by the Parliament in August-2001 and was expected to clear the way for to check Wastage Energy. This Bill was supposed to control huge wastage of Power. The Energy Conservation Bill 2001 prepared by group of expert committees discussed and debated at various forums, was passed by the Indian Parliament in August-2001. This a Bureau called the Bureau of Energy Efficiency (BEE) was established and managed through Governing council. However the implementation of Energy Conservation Bill-2001 has to be done through well qualified and experienced Energy Managers with the designated consumers and the Energy Auditors to check & certify that every such consumer complies with the provisions of this bill, thereby conserving the Energy, which of course will benefit the consumers themselves reducing their own Energy Bills and such savings increasing their profitability. Bureau of Energy Efficiency (BEE) also play key role in creation of professionally qualified energy managers and auditors with expertise in energy management, project management, financing and implementation of energy efficiency projects as well as policy analysis. It is a Law to force firms to make more profit and not an Act to control and monitor Energy Consumption of Industry.

Under the BEE’s PAT Scheme (Perform, Achieves & Trade) for Eight following Industrial Sectors, it is mandated to compulsorily improve their Energy Efficiency by adopting all the available measures including replacement of their old Equipments with New and Energy Efficient Equipments:-

- Aluminum
- Cement
- Chlor
- Alkali
- Fertilizers
- Iron & Steel
- Pulp & Paper
- Textile and Thermal Power Plants

All the Assets, Liabilities and Employees of the existing Energy management center was suppose to be transferred to this bureau. The central government through its Ministry of Power, the Bureau of Energy Efficiency & the State Governments will have a major role to achieve the desired objectives. Bureau of Energy Efficiency (BEE) has estimated a potential of more then 25% savings through energy conservation. With the move towards deregulation within the Power utility industry, customers are demanding superior Power quality and reliability of Supply. Many utilities have responded to the needs of their customers by establishing Power Quality Divisions within their marketing departments.

Some of the main Objective of Energy management programmers are as follows.

- Cultivating good communications on Energy matters.
- Improving energy efficiency and
reducing energy use and to reducing cost from the same.
» Developing and maintaining effec-
tive monitoring, preparing reports and implementing steps for wise energy usage from the reports after analyzing.
» Developing interest in and dedication to energy management programme from all employees
» Reducing the impact of curtailments brownouts or any interruption in energy supplies.

Energy Audit & Accounting
The Energy accounting gives the overall picture of Energy availability & its use. The Energy Audit enables analyzing the data in meaningful manner to evolve measure to introduce checks & balances in the system to reduce leakages and losses and also to improve technical performances. Energy Audit is carried out with the following objectives.
» Review of technical efficiency of system elements in T&D System.
» Review of performance of Equipment, Meters, Control Panels, and distribution Transformers, etc.
» Analysis of the techniques for measuring energy received, energy billed and revenue collection.
» Review and upgradation of procedure for checking at Industrial and Consumers end.

The measurements can be done with
donnecting the Live loads. It is able to do almost all the Analysis for 1 / 3 Phase Power System and capable of analyzing IT standy by Power consumption to the Maximum Demand of Factory. LCD Display with Backlight of 35 Parameters in One Screen to monitor Active, Apparent & Reactive Power, Power Factor, Energy, TRU RMS Value, AC Current, and Average Demand & Maximum Demand with Programmable Time Interval, CT & PT Ratios.

It displays Harmonics up to the 99th Order & T.H.D. with Waveform, PHA580 Display Power Parameters and Harmonics with waveform. Analyzer having features like Real time Graphic Phasor Diagram & Capture 28Transients Events with Programmable Threshold (%). MECO PHA - 5850 has inbuilt memory of 512K for 17000 records and Optical Isolated RS-232 - USB Interface with users friendly Software for easy downloading of recorded data is the key features. Anal-
lyser has facility to retrieve Power Data & Harmonics on Meter Screen.

Analyzer available with Clamp on CTs having Multiple Range of 1/10/100A or 10/100/1000A or 300/3000A (Flexible CTs) as per application.

The objectives of this Energy Conservation are very good but the road ahead is very long, rough and tardi but with the cooperation and strong will, nothing is impossible.

MECO "POWER & HARMONICS ANALYZER - Model 5850"
Analyzer which is a state of art versatile instrument using micro controller technology and having various functions that would be ideal for any Energy Auditor, Engineer, Inspector for carrying out Energy Audit, Surveys, Periodic Audit with visit

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