

7.1.3 Energy audit

Sr.No.	Content	Hiperlink
1	Energy audit	Energy audit

Energy Audit Report

 PP Associates Electrical Consultant & Engineers					
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IEC NO: AAPPT364L	BEE ASSOCIATED FIRM				
GSTIN: 27AAPPT364L1ZU					
QUOTATION No: PPA/2023-2024/76					
Date: 23.06.2023					
Name & Address: ACPCE, Plot No. 17, Sect-4 Kharghar, Navi Mumbai-410210					
Contact Person: V.N. Pawar Sir					
Sub: Detail Energy Audit					
Sr. No.	Description of Goods	MSX Code	Qty	Rate	Amount
1	Electrical Energy Audit as per scope of work provided - a) Detailed power quality monitoring at LT incoming to measure and analyse following power quality parameters: 1) RMS voltage Profile, Voltage sag, voltage swell, Under and over voltage. 2) Active reactive and Apparent Power variation. 3) Voltage and current unbalance factor 4) Crest factor variation 5) Impulsive and oscillatory transients b) % Total current and Voltage harmonic distortion as per IEEE 519-2014 standard 7) % Individual voltage and current harmonic distortion from 2nd order to 50th Order as per IEEE 519-2014 standard b) Study of harmonic resonance c) Study of adequacy of reactive power compensation, assessment of APFC panel d) Harmonic compliance as per IEEE 519-2014 standard e) Sizing of A/HF and designed RTPFC for adequacy reactive power compensation and harmonic control Monitoring Power: a) Main LT incoming : 24 Hours	0147	1	45000	45000
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	b) UPS outgoing Feeders 24 Hours THERMOGRAPHY Audit: Carry out thermography audit of following Electrical installation / Equipments - 1) LT panels 2) Transformers 3) DBs 4) FDBs 5) Cables 6) UPS 7) Batteries 8) Other Equipments Submission of detailed report with Recommendations.				
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TERMS AND CONDITIONS

- GST@18%
- 75% Advance with work order 25% after Submission of Report.
- Lodging & Boarding in Customer Scope.
- Delivery time As per Required.
- PRICE VALIDITY: 30 DAYS

For PP Associates



Proprietor

LETTER OF INTRODUCTION

Dear Sir,

We are pleased to introduce ourselves as a devoted Electrical consultant and integrator. "PP ASSOCIATES" Company associated with reputed manufacturer & Services Providers engaged in number of various activities in all facets of Utility. We are flexible, efficient, responsive and good in execution.

We have elite vertical in energy quality & Energy saving segment. Authorized channel Partner to ENN POWER leading manufacturer of various Energy Saving systems with innovative technologies to save 8-35% Electricity. After thousands of successful installations company come up with innovative concept with more range of products like Energy Audit, Harmonics Audit, Standard APFC panels, Detuned APFC Panels, Online GPRS based Remote Data monitoring system, GPRS based Centralized Street Light LED Dimming and Remote monitoring system, Passive & Hybrid Harmonics Filters. We ensure % current (I) THD below 5% as per IEEE-519-2014 Std.

It is our proud privilege that our Associated Partner is now recognized as an ESCO (Energy Service Company) empanelled with BEE (Bureau of Energy

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efficiency) Ministry of Power, Government of India. Hence our Services, Solar systems, Energy Audits and Energy Saving Equipment's, APFC Panels, Harmonics Filters are authenticated.

We hereby submit our offer for Power Audit, Pre & Post work with 24 Hrs Data logging with Audit report. Audit conducted by our Team of experts to Reduce electricity Bill remarkably so that, Power Factor incentive reflected in Electricity Bill.

Our USP: Consultancy, Designing, Manufacturing & responsible for end result with savings reflection in electricity Bills.

ABSTRACT

Energy consumption is one of the highest expenses in Manufacturing & R&D Center. The electricity demand increasing day by day. Electrical safety-Energy-Power Audit with protection & benchmarking procedures are required for the evaluation of the energy performance.

Carrying out of Audit, where the overall and disaggregated energy consumption were predicted by the energy model and compared to the energy bill with a proper design and a careful management model, there is a possibility to achieve significant savings. As energy costs continue to rise, knowledge of energy-efficient technologies and best practices is becoming more valuable.

Successful energy Audit shall reflect 5% of Electricity bill reduction without introduction of new technologies, but in the form of Losses & wastage of Electricity. New Technologies introduction required necessary recommendations & investment. Assessment required as per BEE guidelines from valid BEE empaneled Energy Service Company.



SCOPE OF WORK OF DETAIL ENERGY AUDIT

The scope of the Energy Saving & Harmonics Audit work

- Study of Electrical Distribution System, i.e. Single Line Diagram (SLD), transformer loading for Utilities, Reactive Power Management (APFC), Harmonics etc. with a view to improve and optimize system for reliability and energy conservation.
- Thermal imaging of electrical panels to identify hot-spots and recommend corrective action.
- Analysis of electricity bills and exploring opportunities for tariff and demand management.
- Measurement of power consumption trend in various equipment and systems in 'Utilities' and Lighting.
- Measurement of Harmonics at various Locations.
- Measurement of Harmonics amplification by APFC panel.
- Critical study of operation/measurement of the following equipment.
 - Electric Motors
 - Pumps, Blowers & Fans
 - Air Compressors
 - Refrigeration & central A.C. Plants
 - Chilling Plants /Cooling Towers- Efficiency and air flow estimation
 - Electrical Power System
 - Transformer
 - Lighting
 - UPS
 - DG Set
 - APFC panel
 - Lits etc.
 - Lux level

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- Free DD Answer is 10%**

Proprietor

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