QUOTATIONS FOR CONDUCTING ENERGY AUDIT AT MPEDA HEAD OFFICE.

The Marine Products Export Development Authority (MPEDA) invites quotations for CONDUCTING ENERGY AUDIT AT MPEDA HEAD OFFICE. The interested parties may respond on or before 5.00 pm on 22.06.2020. The details are posted in MPEDA website (www.mpeda.gov.in) under the head Notifications - Tenders.
NOTICE

INVITING QUOTATION FOR CONDUCTING ENERGY AUDIT AT MPEDA HEAD OFFICE, KOCHI.

The Marine Products Export Development Authority (MPEDA), Ministry of Commerce and Industry, Govt. of India invites quotations for CONDUCTING ENERGY AUDIT AT MPEDA HEAD OFFICE. The sealed quotations along with an Earnest Money Deposit of ₹ 5,000/- in the form of Demand Draft in favour of Secretary, MPEDA, Kochi, shall reach the following address not later than 5 PM on JUNE 22, 2020.

Secretary
The Marine Products Export Development Authority
MPEDA House, Panampilly Avenue,
Kochi — 682 036, Kerala

Scope of Work
Subject to overall supervision and control by MPEDA, the contractor shall provide the scope of work mentioned in Annexure B.

Timeline of the project
The timeline is of utmost importance. The work needs to be completed within 14 days from the receipt of work order.

Payment Terms
Upon Satisfactory completion of energy audit and submission detailed Project report along with Invoice, 100% payment will be made after verification by the MPEDA.

Selection of Contractor:

The quotations received by MPEDA will be opened at 10.00 AM on June 22, 2020 and assessed by a Department committee. The work will be awarded to the contractors who submit the lowest quote.

- The contractor/Firm should have valued accreditation certificate issued from Bureau of Energy Efficiency, Ministry of Power Government of India.
- The contractor/Firm should have successfully completed three similar works in Govt. Organizations or Private enterprises or Autonomous Bodies of repute in the last three years. Testimonials should be submitted as proof.
General Instructions

The contractor shall submit the sealed Quotation in envelope superscribing “Quotations FOR CONDUCTING ENERGY AUDIT AT MPEDA HEAD OFFICE”.

The envelope should contain;

Covering Letter in the Format prescribed in Annexure A
Earnest Money Deposit (EMD) of ₹ 5,000/-
Scope of work - Annexure B
Quotation for the Bill of Quantities (BOQ) listed in Annexure C

Signed Copy of this Quotation Notice

Quotations without complete documents as prescribed shall be summarily rejected.
Quotations should be addressed to The Secretary, The Marine Products Export Development Authority, MPEDA House, Panampilly Avenue, Kochi — 682 036, Kerala, so as to reach not later than 5.00 PM on 21/06/2020.
No quotation will be entertained after 5.00 PM on 21/06/2020 under any circumstances, whatsoever.
MPEDA reserves the right to reject any or all applications without assigning any reasons thereof. Mere submission of an application to MPEDA does not entitle an applicant to any benefits / rights / preference. Canvassing in any form is prohibited and will lead to disqualification.
MPEDA reserves the right to omit any of the items mentioned in the BOQ without assigning any reasons thereof while awarding the work. The applicant shall keep all the information relating to the work or any other aspect of MPEDA’s business that comes into his possession as a result of or in connection with this work as confidential.

The contractor shall indemnify MPEDA against any loss/claim that may occur to MPEDA, or against MPEDA whatsoever in respect of the workers employed by the contractor for energy audit.

The applicant or the authorized signatory shall sign all the pages of the Quotation notice and the supporting documents as acceptance to have read and understood the EOI.
The applicant may also visit the site at MPEDA Head Office to know about the requirements in person on any working day during office hours.

In case of any clarification, you may please contact the following officials on any working day during office hours (Monday – Friday from 9.00 Am to 5.30 Pm):- Mr. Ivin Alex (9847260487)
Annexure A
COVERING LETTER

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Name of the bidder</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Address — Office (With Name of the contact</td>
<td></td>
</tr>
<tr>
<td></td>
<td>person and telephone &amp; fax numbers and email</td>
<td></td>
</tr>
<tr>
<td></td>
<td>address)</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Local sales tax Registration No., PAN, TAN,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and VAT No. or GST no. (As applicable)</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>EMD details (Bank Guarantee/DD/Multiplicity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>cheque No., Bank’s branch etc)</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Banker and their address, A/c No. with RTGS/</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NEFT details.</td>
<td></td>
</tr>
</tbody>
</table>

I/We hereby declare that I/We have read and understood the above notice for Quotation invited by MPEDA for conducting energy audit at MPEDA HO, Kochi. I/We are competent to undertake the works to the complete satisfaction of the MPEDA and I/We have the enough experience and resources to complete the work within the prescribed timelines as per the expected quality. The information provided in the Annexure A attached with this quotation is true to the best of my/our knowledge.

Signature of the Applicant/Authorized Signatory

Name:

Date:

Place:

Seal:
Annexure - B

Scope of Work

The audit scope will include:

- Study of historical energy consumption and utilization to develop suitable energy saving configurations.
- Study of present energy consumption based on the utilization.
- Study and assessment of Present Electricity distribution system and back up facility.
- Power quality and harmonic study in existing system with respect to the Fault level.
- Development of energy performance indices to provide handy control and monitoring to management at various levels.
- Assessment and rationalization of water and its pumping system.
- Recommendations on energy saving opportunities with cost benefit analysis.
- Recommendations for possible renewable energy integration.

ENERGY CONSUMPTION & BILLING

Summarization analysis for the past 3 year's monthly energy consumption (electricity and diesel), Calculation of specific energy (Energy Performance Index) and observations, recommendations on the same.

ELECTRICAL DISTRIBUTION NETWORKS:

Performance evaluation through simultaneous measurements of major electrical parameters (V, I, KW, PF etc) at various points viz., PCC, MCC, load centers, Motors, Water bump etc., and analysis of the same. Measurements & analysis of electricity consumption by various sections, panels & equipment including Diesel Generator 250 Kva and 30 Kva.
Power Quality

Measurement & analysis of power quality (Harmonics, Unbalance, Crest factor, Voltage, phase & neutral current, Short term flickers etc) at various distribution points and main load centers. Compare and analysis of the causes of PQ issues for addressing and gave suggestions for mitigating the same. Comparison with standards (IEEE 519-2014)

Power Factor:

Performance analysis of installed Capacitors and APFC panel. Measurements of power factor at various points viz., PCC, MCC, load centers etc., and analysis of the same for optimizing the network losses.

UTILITY ANALYSIS

Motors: The study would cover (motors 3.7 Kw and above) loading conditions, loading analysis, drive matching for the motors, whichever in operation can be done by using power analyzer. Operating parameters such as kW, kVA, pf, Voltage, Current and Frequency will be measured. Based on the above analysis the following practically implementable energy conservation recommendations will be made.

- Proper sizing of motor
- Application of Energy Efficient Motors
- Energy-efficient transmission
- Reactive power compensation for motors operating at low PF
- Air compressor
- Performance evaluation of air compressor by analyzing the FAD, pressure requirement at various areas and pipe lines. Optimization of usage and recommendations.
- Pumping system
- Performance evaluation of pumping system and energy saving option

Lighting:

- Study and validation of illumination levels at various areas as per NBC -2015 & BEE standards.
Performance evaluation of air conditioners.

Comfort study such measurement of relative humidity, CO2, Dry bulb temperature of each room
Energy saving opportunities in air conditioning system.

SUBMISSION OF DPR WHICH INCLUDES

- Methodology adopted for the study.
- Present energy scenario of the industry and buildings.
- Detail analysis of the data obtained through field visits, measurements by portable gadgets, discussion with concerned personnel etc.
- Recommendations for energy saving options in all possible areas with cost-benefit analysis.
- Technical and economic viability of energy saving proposals.
- Hard copy (02 nos) and soft copy in PDF format of the final report will submit to firm along with the executive summary, detailed report annexure, appendices.

THE MPEDA SHALL PROVIDE

- A work schedule after discussing with concerned persons.
- Two persons whom can coordinate with the energy audit, during the duration of the assignment, which will help you by introducing the buildings/operating areas. He/she shall also help the audit team in familiarizing with the buildings, layouts.
- The MPEDA shall provide to the audit team with necessary information about the equipment's, Catalogues, Drawings, lay outs, bills, etc. and any such documents that is relevant to energy audit.
# BOQ FOR ENERGY AUDIT

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Description</th>
<th>Rate</th>
<th>Amount (including GST)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Conducting Energy Audit at MPEDA HO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• KSEB incomer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 250 kva DG incomer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 30 kva DG incomer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• SMDB</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• G+5 all DB</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Capacitor Panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• AMF panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• And as detailed in the scope of the work (Annexure - B)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Date: 
Place: 
Name & Address of the contractor/Firm: 
Seal: