


HLL LIFECARE LIMITED
(A Government of India Enterprise)
AKKULAM PLANT, SREEKARIYAM P.O,
THIRUVANANTHAPURAM-695017
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INVESTMENT GRADE ENERGY AUDIT


AT

AKKULAM FACTORY

 HLL Lifecare Limited	HLL LIFECARE LIMITED (A Government of India Enterprise) AKKULAM PLANT, SREEKARIYAM P.O, THIRUVANANTHAPURAM-695017	HLL/AFT/PUR/ENGG/EN ERGY AUDIT/2022-2023
	INVESTMENT GRADE ENERGY AUDIT	20-10-2022

TENDER INFORMATION

IFB NO	IFB No. HLL/AFT/PUR/ENGG/ENERGY AUDIT/2022-23 Dated. 20-10-2022
DATE OF COMMENCEMENT OF SALE OF BIDDING DOCUMENT	20-10-2022
LAST DATE FOR SALE OF BIDDING DOCUMENT	09-11-2022, 11.00 Hrs
LAST DATE AND TIME FOR RECEIPT OF BIDS	10-11-2022, 14.00 Hrs
TIME AND DATE OF OPENING OF BIDS	10-11-2022, 15.30 Hrs
PLACE OF OPENING OF BIDS	HLL LIFECARE LIMITED AKKULAM FACTORY, SREEKARIYAM P.O. THIRUVANANTHAPURAM – 17
ADDRESS FOR COMMUNICATION	JOINT GENERAL MANAGER (MATERIALS) HLL LIFECARE LIMITED AKKULAM FACTORY, SREEKARIYAM P.O. THIRUVANANTHAPURAM – 17

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TENDER NOTICE

SUB: INVESTMENT GRADE ENERGY AUDIT

1. Tenders are invited in two part system (Part A –Technical Bid, Part B-Price Bid) from competent Energy Audit Firms in prescribed format for "performing energy audit in HLL Life care Limited, Akkulam" as per the scope of work and terms and conditions mentioned in the tender.


2. A complete set of bid documents can be had from the office of the Joint General Manager (Materials), HLL Lifecare Limitedd, Engineering Division, Akkulam, Thiruvananthapuram – 695 017, Kerala, India during office hours on any working day on submission of written application.

The bid documents will be available up to 15.00 Hrs. on the previous day of the Opening of the bids.

- a) Date of issue of bid document: **20-10-2022**,
- b) Last date and time for receipt of bids: **10-11-2022, 14.00 Hrs**
- c) Date and time of opening of bids: **10-11-2022, 15.30 Hrs**

Address for communication, receipt and Place of opening of bids:

Joint General Manager (Materials),
HLL LIFECARE LTD,
(A Government of India undertaking)
AKKULAM, SREEKARIYAM.P.O THIRUVANANTHAPURAM – 695 017
KERALA, INDIA Ph. 2445930, Fax: (0471) 2445935

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3. The completed bid documents and all schedules should be submitted to Joint General Manager (Materials) in the above address along with sealed bids and the EMD. Bids received after due date and time will be rejected. Any bid not accompanied by EMD will be rejected.
4. Bids will be opened in the presence of Bidders representative(s) who wishes to attend on the specified date and time, at the office of HLL at the address given in Clause '2' above.
5. In the event of the date specified for bid receipt and opening being declared as a closed holiday for HLL's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
6. The HLL may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents or any other reasons, in which case all rights and obligations of the HLL and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended. HLL will not be held responsible for the postal delay, if any, in the delivery of the bidding document or the non-receipt of the same. Bids sent by Telex/Fax/Telegraph will not be accepted. The company reserves the right to club or split the items of works, change the qualifying criteria at their discretion and to reject / cancel the tender without assigning any reason thereof.
7. Unit Chief, HLL Lifecare Limited, Akkulam Factory reserves right to cancel this tender at any point of time without assigning any reason.
8. Unit Chief, HLL Lifecare Limited, Akkulam Factory reserves right to reject any or all the bids received against this tender at any point of time without assigning any reason.
9. Any changes regarding extension of tender time etc. shall be communicated through our website

Joint General Manager (Materials)



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SCHEDULE- A

INSTRUCTIONS TO BIDDERS

1. This tender is invited in two bid system comprising of:

- a. Technical Bid
- b. Price Bid

Bidders are required to submit offers in two covers, namely "Technical Bid" & "Price Bid".

Cover 1 (Technical - Part A)

Bidders are requested to forward the copies of the following details in a cover and write "Technical Bid Part A" for Energy Audit"


- a. Details / Proof as per Prequalification of Tender
- b. Annexure - 2 filled, signed and authenticated.
- c. Techno commercial offer.

Cover - II (Financial - Part B)

Bidders are requested to quote rates in the Proforma attached along with this tender document. Please insert the offer in a cover and write 'Price Bid Part B'.

Part A and Part B are to be signed and enclosed in separate covers and these covers are to be enclosed in a single cover

1. A complete set of bid documents can be had from the office of the JOINT GENERAL MANAGER (MATERIALS), HLL LIFECARE LTD, AKKULAM, THIRUVANANTHAPURAM-695 017 KERALA STATE, INDIA during office hours on any working day on submission written application and remitting a non-refundable **Tender fee of Rs. 520/-** (including taxes) and **Earnest Money Deposit (EMD) amount of Rs.25,000/-** can be remitted by Demand Draft drawn in favour of the HLL LIFECARE LIMITED, obtained from any scheduled bank and payable at Thiruvananthapuram /RTGS/NEFT. The Demand Draft/RTGS/NEFT Statement towards

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Tender fee & EMD should be attached along with the tender. Tenders without proper Tender fee & EMD will be rejected outright.

HLL A/c details:

Name of Bank : State Bank of India
A/c number : 30307559515
IFSC Code : SBIN0004350
Branch name : Commercial Branch, Thycaud, Thiruvananthapuram

2. The Tender Documents can also be downloaded from our Website www.lifecarehll.com and cost of the Tender Documents as mentioned above should be furnished along with Technical Bid.
3. The technical bid should accompany an EMD the details are shown in clause 1 of Schedule A.
4. Both the Bids shall be submitted in sealed covers separately. Tender Nos. of the Technical Bid and Price Bids shall be super scribed on the respective covers in order to clearly identify between these two Bids. The two separately marked Bids enclosed in a single sealed cover with the respective Tender No. mentioned thereon, complete in all respect, addressed to the **Joint General Manager (Materials), HLL Lifecare Limited, Akkulam Factory, Thiruvananthapuram – 695017, Kerala, India** should reach us on or before the due date and time mentioned in the Tender Notification. HLL shall not be responsible for any delay. Tender brought to the office after prescribed time will not be accepted. HLL will not be responsible for any delay in transit of tenders sent by post.
5. Tenders should be submitted in sealed cover properly sealed on sealing wax/packing PVC tape. Covers, which are closed by gum or staples only, will not be considered.
6. The bid documents will be available up to 11.00 Hrs. on the previous day of the Opening of the bids.
 - a) Date of issue of bid document: 20-10-2022
 - b) Last date and time for receipt of bids: 10-11-2022, 14.00 Hrs
 - c) Date and time of opening of bids: 10-11-2022, 15.30 Hrs




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7. In the event of the date mentioned above being declared subsequently as holiday for the purchaser's office, the due date for submission and opening of bids will be the next working day at the same venue and time.
8. The Purchaser may, at its discretion, extend the date & time for the submission of bids by amending the bid documents in which case, all rights & obligations of the Purchaser & bidders shall be subject to the extended date & time.
9. Bids received after the deadline for submission shall not be considered.
10. The Bidder is expected to examine all specifications, Instructions, Forms, terms and conditions given in the Bidding documents. Failure to furnish all information required in the Bidding documents or submission of a Bid not substantially responsive to the bidding documents in every respect will be at the Bidders risk and may result in rejection of the Bid. Any clarification required will have to be obtained within 5 days prior to the Date of opening of the Technical Bid.
11. A Declaration as given in **Schedule J** stating that **ALL TERMS AND CONDITIONS** of this Tender is acceptable should accompany the tender failing which the tender is likely to be summarily rejected.
12. The Price Bid of those Tenderers who qualify in the Technical Bid only will be opened.
13. Those bidders who download the tender documents from our website should furnish the Name and address of the vendor, name of contact person, telephone & Fax numbers and Email details immediately by fax/Email.
14. Any changes pertains to this tender shall be communicated only through our website **www.lifecarehll.com**
15. Unit Chief, HLL Lifecare Limited, Akkulam Factory reserves the right to accept or reject any bid, and the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected tenderer or tenderers.

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SCHEDULE-B

GENERAL CONDITIONS

- 1) The tender should be completed in all respects; incomplete tenders are liable to be rejected.
- 2) Unsealed tenders received are liable to be rejected and this will be at the sole risk of the tenderers.
2. **Earnest Money**
 - 2.1 Each bid must be accompanied by E.M.D.
 - 2.2 The EMD shall be in the form of Demand Draft from a nationalized/scheduled bank drawn in favour of HLL Lifecare Limited, Thiruvananthapuram payable at Thiruvananthapuram /RTGS/NEFT.
 - 2.3 EMD of the unsuccessful tenderers will be released within 30 days from the date of opening the price bid.
 - 2.4 In the case of successful tenderer, the Earnest Money will be returned after accepting the Purchase Order and submission of Demand Draft towards Security Deposit, which they will have to offer for the faithful execution of the contract.
 - 2.5 The EMD may be forfeited;
 - 2.5.1 if a tenderer withdraws its bid during the period of tender validity specified by the tender on the Bid Document; or
 - 2.5.2 in case of the successful tenderer, if the tenderer fails:
 - i. to accept the Purchase Order by signing and return the copy.
 - ii. to furnish Security Deposit.
 - iii. does not accept the correction of his bid price pointed out by HLL
 - 2.6 The EMD should be enclosed in a separate envelope and super scribed as “EMD” and to be attached in the main cover.
3. SSI/MSME units interested in availing exemption from payment of Tender Fee and EMD should submit a valid copy of their registration certificate issued by the concerned DIC or NSIC/Udyog Aadhaar and shall submit duly filled Bid Security Form attached as

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Schedule K. If the bidder is a MSME, it shall declare in the bid document the Udyog Aadhar Memorandum Number issued to it under the MSME Act, 2006. If a MSME bidder do not furnish the UAM Number along with bid documents, such MSME unit will not be eligible for the benefits available under Public Procurement Policy for MSEs Order 2012. But the Party has to provide Performance Security/Security Deposit if Tender is awarded to them.


Startup units interested in availing exemption from payment of Tender fee & EMD shall submit a valid copy of Registration Certificate from Department of Industrial Policy & Promotion as per NIT. But the party has to provide security deposit if Tender is awarded to them.

4) PERIOD OF VALIDITY OF TENDER:

The tender will remain open for acceptance for 90 days from the date of opening of the tender and the rate quoted shall be firm and valid for a period of one year from the date of opening of the price bid.

5) TERMINATION OF CONTRACTS:

- i. In case, after issuing a firm order, the successful tenderer fails to audit the firm as per the schedule and fails to commence the audit within the extended period if any given in writing by HLL Lifecare Limited, Akkulam Factory, Thiruvananthapuram, will be within HLL's full rights to terminate the contract by giving a notice of 21 days in writing sent by Registered courier to the address given in the tender submitted or to any other address which may be recorded in the office at the request of the of tenderer. The period of 21 days will be counted from the date of issue of the notice
- ii. HLL Lifecare Limited, Akkulam Factory reserves the right to terminate the contract without assigning any reason by giving a notice of 21 days to the successful tenderer by Regd Post to the address given in the tender submitted, or to any other address which may be recorded in the office at the request of the tenderer. The period of 21 days will be counted from the date of dispatch of the notice. In such cases, the

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Security Deposit of the successful tenderer will be refunded soon on getting demand from the tenderer. The HLL Lifecare Limited, will not be liable for payment of any compensation for any loss that the contractor may be put to or alleged to have been put to on account of such termination.


- iii. In case of notice sent by registered post/ courier to the address recorded in the office as per clause 5 (i) & (ii) is returned undelivered with the remark addressee not found or addressee refused to accept, the notice shall be deemed to have been served and the termination will automatically take effect from the 22nd day of dispatch of the notice.
- iv. Unit Chief, HLL Lifecare Limited, Akkulam Factory will have the full right to reject any or all the tenders without assigning any reason whatsoever.

6) PRICE

- a) The tenderer has to quote the rate as per the tender Price Bid Format. Statutory levies if any such as service tax etc. should be shown separately. Statutory deductions such as PF, ESI, TDS, etc. will be made as per prevailing rules.
- b) Rate quoted shall be firm and valid for a period of one year from the date of opening of the tender. The benefit of reduction of statutory levies should be passed on to the purchaser.

7) BID OPENING

- a) The tender shall be opened on date and time as specified, in the presence of such tenderer(s) or their representatives who may be present. The tendere(s) or the authorized representative(s) who are present shall sign an attendance register. The authorized representative(s) of the bidder(s) shall submit letter(s) of authority before they are allowed to sign the attendance register and participate in the bid opening.

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b) The Technical Bid will be opened on the prescribed tender opening date and time. The price bid will be opened on a later date, which will be made known to all eligible tenderers, after technical evaluation has been completed.

c) The tenders, which are found as substantially responsive in the technical evaluation and comply with the entire requirement, shall only be considered for Price bid opening. The Price bid (price schedule) submitted by such tenderers whose technical bid have been considered as technically unacceptable on the basis of evaluation, will not be opened.


8) **TECHNICAL EVALUATION OF TECHNICAL BIDS**

The purchaser will carry out a detailed evaluation of the bids in order to determine whether the technical aspects are substantially responsive to the requirement set forth in the bidding documents. In order to reach such a determination, the bidder will examine the information supplied by the bidders and other requirements in the bidding documents, taking into account the following factors.

- a. Overall completeness and compliance with the qualification criteria and tender conditions.
- b. Compliance with the time schedule called for
- c. Any other relevant technical factors that the bidder deems necessary or product to take into considerate.
- d. Any deviation to the commercial and contractual provisions stipulated in the bidding documents.

9) **OPENING AND EVALUATE OF PRICE BIDS**

- a. Price bids will be opened, only those who are found to be responsive in the Technical Bid evaluation. The venue, date and time of opening of price bids will be intimated to the techno-commercially responsive tenderers.
- b. Unopened Price Bids will be returned back to the tenderer.

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10) RELEASE OF SERVICE ORDER

Order will be issued to the technically, commercially and financially successful tenderer by HLL Lifecare Ltd, Akkulam Factory.

11) ACCEPTANCE OF PURCHASE ORDER

The successful tenderer has to sign the duplicate copy of the Letter of Intent (LOI) / Service Order and return back within 15 days of receipt of LOI / PO, which will be considered as the confirmation of acceptance of LOI / Order.

12) SECURITY DEPOSIT

Successful tenderer shall submit Security Deposit in Demand Draft for an amount of 3% of Order value within 15 days of acceptance of order. The Security Deposit shall be payable to the Purchaser as compensation for failure to complete its obligations under the contract. Security Deposit will be discharged within 30 days from the date of successful commissioning of the entire system.

13) PAYMENT TERMS


100% against the submission of Final Audit Report and certification of HLL Lifecare Ltd, Akkulam Factory officials.

(Payment shall be done within 30 days from the date of submission of submission of the bill)

Normally the bidder will not entertain any advance payment. However the bidder can indicate advance payment in the payment terms, if required. Moreover such advance payment will be released against submission of a Bank guarantee, on a specific format, from a nationalized/ scheduled bank for an amount maximum up to 40% of the basic order value

14) PENALTY

If the contractor fails to complete and submitting the audit in all respect and submit the audit report within the specified period, the penalty shall be charged at 0.5% of the contract amount for every week that the whole or the part of the work remains incomplete, subject to a maximum of 7.5% of the contract value.

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15) COMPLETION PERIOD

The tenderer shall complete the audit in all respect and submit the Final Audit Report within 45 days from the date of issue of LOI/Service Order

16) The audit firm shall bring their own men, tools, tackles and measuring instruments for carrying out the work as.

17) RESOLUTION OF DISPUTES


The jurisdiction of any disputed, suits and proceedings arising out of this Tender shall be only in the court of Thiruvananthapuram.

Joint General Manager (Materials)

Ph No: +91 471 2445930

Fax No: +91 471 2445935

Email: materialsft@lifecarehll.com/epurchaseaft@gmail.com

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SCHEDULE- C

ENERGY AUDIT – TECHNICAL DETAILS


A. OBJECTIVE OF THE AUDIT

The broad objective of this investment grade Energy Audit is to review/develop the energy accounting system with respect to product, process system and sub systems including utilities such as Power, Furnace Oil, Compressed Air, Chilled Water/AHU(HVAC), in order to monitor and analyze the consumption of energy in all forms, to record and attribute energy consumption and cost, provide a basis for prioritizing energy conservation capital investment projects and to evolve an incentive/rewarding scheme for energy management/conservation initiatives. The investment grade energy audit shall ultimately assist HLL Lifecare Ltd, Akkulam Factory in effectively identifying, developing and implementing specific projects for efficient use of resources and best energy management practices in order to reduce overall energy cost of various process systems/sub systems. The audit shall also objectively look into financing options for the implementation of energy efficiency proposals identified through the audit.


B. SCOPE OF WORK

This request for proposal to select a competent firm who will carry out the audit in order to;

1. Meet the guidelines stipulated by Govt. of Kerala on conducting Mandatory Energy Audit for HT, EHT, High Rise Buildings and Apartments in Kerala State. G.O.(Rt) No.2/2011/P.D. dated 1.1.2011 and any other guidelines prescribed by Energy Management Centre, Kerala.
2. In addition to the thermal area, exploring the possibility of savings in Thermal, Furnace Oil, Diesel & Electrical as per the guidelines issued by the Government of Kerala may be followed for electrical part. Wherever deviations are made from these guidelines the same may be justified properly explaining the circumstance.

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3. Conduct an investment grade energy audit that describes the energy use patterns with respect to products, process systems, utility subsystem as well as equipment wise energy consumption in all forms of energy. List of equipments are attached as ANNEXURE-A.
4. Bench marking/base lining of the specific energy use with respect to products, process systems, utility subsystem as well as major equipments and its comparison of specific energy use index with the national and international standards applicable for the industry sector in which HLL AFT is operating.
5. Analyze the existing energy accounting system in HLL AFT and to develop energy accounting including the reporting, monitoring and targeting system indexed to production as well as process subsystems and utilities appropriate for the industry
6. Review existing Energy Reporting System and propose revised Energy Reporting System for effective monitoring and targeting, if required.
7. Develop a strategic plan for short, medium and long term energy saving projects.
8. Assess the pitfalls existing energy accounting monitoring and targeting system and suggest any improvement/ modification.
9. Review the housekeeping practices with respect to spills, leakages, handling and storage of materials and wastes etc., and to suggest effective managerial and operational actions for better housekeeping.
10. Review present process control measures and propose addition/modification to process control system, operational procedures, equipment work instructions and process record keeping in order running the processes more efficiently with lower energy consumption, waste and emission generation rates and associated costs.
11. Review and propose modification/replacement of the existing production equipment and utilities in order run the processes at higher efficiency and lower waste generation and emission.
12. Assess the performance of existing energy accounting monitoring and targeting of AHU systems and suggest any improvement/ modification.

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13. Review and propose modification/replacement of the existing AHU's/ HVAC equipments and also monitor the Air flow Test & ACPH Calculations, Recovery Test, Air Flow Pattern Test (Using Water Fogger), Air Pressure Balancing etc.
14. Review & propose the modifications in renewable energy applications such as biomass, biogas, solar PV, solar thermal or any other applications.
15. Explore various options such as low cost capital and financial incentives available in the country, for implementing various cleaner production and energy saving schemes.

C. AUDIT SCHEDULE

The audit firm shall submit a bar chart schedule along with their technical proposal to suite the general requirement as per the Scope of Work

D. AUDIT COMMENCEMENT

Prior to the start of the Audit, the firm shall conduct a pre-audit meeting with the members of the HLL AFT to discuss the objective of the scope of work, the schedule, and the procedures/tools that will be used by the audit for the Energy Audit.

E. AUDIT COMPLEITON

The tenderer shall complete the audit in all respect and submit the Final Audit Report within 45 days from the date of issue of LOI/Service Order.

F. AUDIT REPORT


Based on the results of the Energy Audit findings, the firm shall prepare Audit Report as per the following content plan.

Content Plan of Energy Audit Reports


1. Covering Sheet
2. Acknowledgements
3. Content Sheet
4. Executive Summary
 - 4.1 Summary information on key audit findings (annual consumption/energy budget, key energy/ waste performance indicators, etc.)
 - 4.2 Recommended energy-efficiency/cleaner production measures

(with a brief explanation of each) Implementation costs, savings and economic indicators (e.g. IRR, NPV, SPP) for the recommended measures

- 4.3 Any other useful information related to the implementation of energy-efficiency measures
5. Audit objectives, scope and methodology
6. Plant Overview
 - 6.1 General plant details and description
 - 6.2 Component of production cost (raw materials, energy, chemicals, Manpower, overhead, others)
 - 6.3 Major energy use and the users
7. Production Process Description
 - 7.1 Brief description of manufacturing process
 - 7.2 Process flow diagram
 - 7.3 Major raw material inputs, quantities, and costs
8. Energy and Utility System Description
 - 8.1 List of utilities
 - 8.2 Brief description of each utility
 - 8.2.1 Electricity
 - 8.2.2 Steam
 - 8.2.3 Process Water
 - 8.2.4 Compressed air
 - 8.2.5 Cooling water
 - 8.2.6 Process heating/Cooling/Heat recovery
 - 8.2.7 HVAC
9. Detailed Process Flow Diagram and Energy & Material Balance of major consuming system
 - 9.1 Water balance for major units in the facility
 - 9.2 Performance of HVAC system (Chilled water/ AHU)
 - 9.3 Energy Use Analysis in Utility and Process Systems
 - 9.4 Boiler efficiency and Steam system performance assessment
 - 9.5 Cooling water system performance assessment
 - 9.6 Compressed air system performance
 - 9.7 Load measurement and analysis of all electrical
 - 9.8 Power distribution system and transformers etc.
10. Energy Use and Energy Cost Analysis in the Plant
 - 10.1 Summary of energy bills analysis results

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- 10.2 Summary of the results from the analyzing the energy use and production patterns
- 10.3 Bench marking/base lining of the specific energy use with respect to products, process systems, utility subsystem as well as major equipments and its comparison of specific energy use index with the national and international standards applicable for the industry sector in which HLL AFT is operating, if available.
- 10.4 Analysis of existing energy accounting system in HLL AFT and proposal for energy accounting including the reporting, monitoring and targeting system indexed to production as well as process subsystems and utilities appropriate for HLL AFT
- 10.5 Summary of the results from the benchmarking analysis
- 10.6 Summary of assumptions and samples for all important calculations
11. Energy-Efficiency Options and Recommendations
- 11.1 List of energy-efficiency options classified in terms of no cost/low cost.. Medium cost, and high investment cost along with their annual energy and Cost savings.
- 11.2 Summary of the cost-benefit analysis of energy-efficiency measures
12. Description of each energy efficiency measures shall also include the following information, preferably as annexure;
1. One or two page description of each measure and supporting calculations.
 2. Narrative explanation of the measure, including diagrammatic sketches if required to explain the measure.
 3. Material and energy balance pertaining to each measure wherever needed
 4. No-cost measures such as adjusting equipment, control systems, or schedules shall be addressed first.
 5. Energy use and other cost savings calculations and economic analysis

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considering 10years cash flow.

6. Assumptions that were made.
7. Estimated installation cost, including cost of all equipment and materials, and source of cost estimate, based on budgetary offer for major items from vendors.
8. Estimated energy and other resource savings.
9. Estimated annual cost savings based on current historical costs of the facility.
10. Estimate of any rebates/financial incentives available for implementing the project
11. Estimated annual operating cost savings, including reductions in maintenance, Expense, others.
12. Estimated lifecycle cost savings.
13. Simple payback, NPV and ROI.
14. Probable crosses media effect and its implication after implementing the proposed measure.
15. Financing options for the implementation of Energy efficiency proposals.
16. Conclusion and a brief action plan for the implementation of energy-efficiency/management initiatives
12. Based on the data analysis and audit reports energy conservation measures shall be prepared. The following procedure may be adopted.
 1. Calculate energy saving for each equipment per feeder.
 2. Calculate total cost of energy conservation measure and annual savings.
 3. Evaluate payback period, return on investment etc.
 4. Assign priorities based on (3) above.
 5. Select measures for implementation.

14. Renewable Energy Application Measures:

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Recommend any modification of viable renewable technologies such as biomass, solar power systems, etc. available in HLL AFT should be cost effective to HLL AFT.

G. DATA COLLECTION


Utmost care should be taken to collect data accurately. The relevant data to be collected are

1. MD and KWH consumption for the last 5 years.
2. Production figures for the last 5 years.
3. Information regarding existing energy recording systems.
4. Functioning of controls.
5. Review of maintenance and records.
6. Instrumentation of equipments installed.
7. Capacities and efficiencies of all equipments.
8. Prescribed operating parameters of equipments.
9. Present operating parameters.
10. Steps involved in the production process.
11. Overloading details.

H. DATA ANALYSIS

Energy wastage that can be prevented by maintenance or operational actions against:

1. Equipment running when not needed.
2. Equipment rated much higher than what is needed.
3. Overloading.
4. Substandard switchgears and wiring.
5. Mechanical defects in the driven equipments.
6. Possibility of waste heat recovery to generate steam.
7. Possibility of eliminating or modifying production process to reduce energy usage.

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8. Justification for replacing equipment with energy saving equipments.

I. AUDIT REPORT COPIES

Provide 5 copies of the Audit Report to the concerns of HLL AFT

Audit firm has to submit the followings also.

- a. Energy audit Worksheets
- b. List of vendors for energy-efficient technologies, equipment upgrades/retrofits along with details

J. MEETINGS & PRESENTATIONS

1. Meetings:

The Audit firm shall describe the philosophy and process used in the development of the Audit. Selected studies, sketches, cost estimates, schedules, and other relevant information shall be presented to support the recommendations proposed.

It shall also be the responsibility of the audit firm to bring Sub-Consultants if any to be in attendance in such meetings, if required.

2. Presentations:


Final Energy Audit Phase(100% Completion): One power point presentation at the completion of energy audit after completing the audit all respect.

K. SECRECY CLAUSE

The audit firm is to keep all data and information provided by HLL AFT strictly confidential. You shall not divulge any of the data and information given to you for the purpose of audit to anyone without prior permission. You have to return all the documents, drawings and details after the completion of the assignment.

L. DETAILS OF ENERGY SYSTEMS in HLL AFT

1. 2 nos of 630 KVA Transformers
2. 3nos(500 KVA- 2nos & 1010KVA-1 no) Diesel Generators

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3. 2 no of Fire Tube boiler of capacity 2 Tons /Hour at the maximum steam pressure of 10.5 KG/ Sq.cm
4. 2 nos of Chiller Unit with capacity 145 TR each.
5. 1 no of 576 CFM Air compressors (110 KW) and 2 nos of 320 CFM Air Compressors (45 KW each)
6. 20 nos of Air Handling Units.
7. Three Plants with process machines for the production of Blood Bag, Surgical Suture and Cu-T.
8. Lighting (Fluorescent Tubes, Sodium Vapour Lamps, GLS, CFL lamps & LEDs).
9. Air conditioners. (Window / split type).

ANNEXURE-A

LIST OF MAJOR EQUIPMENTS

SI No	Equipment	Rating
1	Transformer No-1	630 KVA
2	Transformer No-2	630 KVA
3	Diesel Generator No-1	500 KVA
4	Diesel Generator No-2	500 KVA
5	Diesel Generator No-3	1010KVA
6	UPS NO-1	80 KVA
7	UPS NO-2	100 KVA
8	UPS NO-3	150 KVA
9	Compressor No-1	320 CFM
10	Compressor No-2	320 CFM
11	Compressor No-3	576CFM
12	Chiller No-1	145 TR
13	Chiller No-2	145 TR
14	Boiler No-1	2 TPH
15	Boiler No-2	2 TPH
16	Solar Plant	25 KWp

ELECTRICAL LOAD IN BLOOD BAG

SL. No	Equipment Name	Capacity (KW)
1.	Tube Extruder	17
2.	Ultrasonic Cleaner	15
3.	Sheet Extruder	50
4.	Dying chamber	30
5.	Auto Clave	8



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6.	HF Welding (New)	55
7.	HF Welding (4 UP)	125
8.	HF Welding PEARL	110
9.	TITAN	17
10.	Boiler 1	7
11.	Filling And Labelling	3
12.	Manual Needle Assembly	8.5
13.	CPD Filling	3
14.	Cooling Water Pump 1	7.5
15.	Cooling Water Pump 2	7.5
16.	Cooling Water Pump 3	7.5
17.	Cooling Water Pump 4	7.5
18.	Cooling Water Pump 5	2.2
19.	Cooling Water Pump 6	2.2
20.	Distillation Unit	3.5
21.	DM Water plant 1	2.2
22.	DM Water plant 2	2.2
23.	Distillation Unit	1.5
24.	Washing Machine	32
25.	Drying Chamber	40
26.	Hot Air Blower	90

ELECTRICAL LOAD IN Cu-T PRODUCTION

SL. No	Equipment Name	Capacity (KW)
1.	Tumbler	7
2.	TEE Inj. Moulding M/c	15
3.	Plunger Forming M/c	50
4.	Flange Forming M/c	15
5.	Granulators	8.5

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SL. No	Equipment Name	Capacity (KW)
6.	2 T Chillers	1.5
	3 T Chillers	5
7.	Air Compressor	3.5
8.	Cu Wire swabbling Cleaning m/c	0.025
9.	Wire Applicator (Cu-T Winding m/c) 1 CR-3	0.025
	Wire Applicator (Cu-T Winding m/c) 2 CR-2	0.025
	Wire Applicator (Cu-T Winding m/c) 3 CR-4	0.025
	Wire Applicator (Cu-T Winding m/c) 4 CR-5	0.025
	Wire Applicator (Cu-T Winding m/c) 5 CR-6	0.025
	Wire Applicator (Cu-T Winding m/c) 6 CR-7	0.025
	Wire Applicator (Cu-T Winding m/c) 7 CR-8	0.025
	Wire Applicator (Cu-T Winding m/c) 8 CR-10	0.025
	Wire Applicator (Cu-T Winding m/c) 9 CR-9	0.025
	Wire Applicator (Cu-T Winding m/c) 10 CR-11	0.025
	Wire Applicator (Cu-T Winding m/c) 11 CR-13	0.025
	Wire Applicator (Cu-T Winding m/c) 12 CR-12	0.025
10.	Cu Coller swaging m/c	10
11.	ARO Tester	0.040
12.	Suture Tensile tester	1.75
13.	Crane Motor1	3.5
	Crane Motor2	2.5
	Crane Motor3	0.75
14.	AHU Motor 1(Clean Room)	22
	AHU Motor 2(Moulding)	6.5
	AHU Motor 3(Final Packing)	5.5
	AHU Motor 4(Component Store)	2.5



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ELECTRICAL LOAD IN HERNIA MESH

SL. No	Equipment Name	Capacity (KW)
1	Washing Machine	1.5
2	Packing Machine	0.025

ELECTRICAL LOAD IN TUBAL RING

SL. No	Equipment Name	Capacity (KW)
1	Cutting Machine	1.5
2	Packing Machine	0.025

ELECTRICAL LOAD IN SUTURE

SL. No	Equipment Name	Capacity (KW)
1	ETO Sterilizer (New)	30
2	ETO Sterilizer (Old)	28
3	Collimatic 3 Side Sealing M/c	15
4	LAF	0.5
5	Rack Winding Machine	0.76

ELECTRICAL LOAD IN CHILLER

SL. No	Equipment Name	Capacity (KW)
1.	Chiller 1 (145 TR)	106.2
2.	Condenser water Pump-2	22.0
3.	Chilled Water Pump-1	18.5
4.	Condenser water Pump-2	22.0
5.	Chilled Water Pump-1	18.5
6.	Chiller 2 (145TR)	106.2
7.	Condenser Water Pump-2	15
8.	Chilled Water Pump-2	11
9.	Condenser Water Pump-1	15
10.	Chilled Water Pump -1	11



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ELECTRICAL LOAD BOILER

SI. No	Equipment Name	Capacity (KW)
1	Boiler Feed water Pump	2.2
2	Blower	4.2
3	Furnace Oil Pump	1.5

ELECTRICAL LOAD IN COMPRESSOR

SI. No	Equipment Name	Capacity (KW)
1.	Compressor Motor 1	45
2.	Compressor Motor 2	45
3.	Compressor Motor 3	110
4.	Cooling Tower Motor1	3.75
5.	Cooling Tower Motor2	3.75
6.	Cooling Tower Motor3	3.75
7.	Cooling Tower Motor4	3.75
8.	Cooling Tower Fan Motor1	2.2
9.	Cooling Tower Fan Motor2	2.2

ELECTRICAL LOAD IN AHU, DM WATER PLANT, ETP AND COOLING TOWER

SI. No	Equipment Name		Capacity (KW)
1.	AHU-6	Needle Assembly section	15
2.	AHU-7	Final Visual	15
3.	AHU-8	Coiling	15
4.	AHU-9	Labelling Area	7.5
5.		Booster Pump	7.5
6.	AHU-10	Visual inspection area	7.5
7.	AHU-5	Packing Area/Fresh air	11
8.	AHU-3	Mixing Area	15
9.	AHU-4	Cu T Area	7.5

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Sl. No	Equipment Name		Capacity (KW)
10.		Cu T Assembly	7.5
11.		Cu T Components	2.2
12.		Cu T Moulding	3.7
13.		Shunt	15
14.	AHU-1	B-Packing	15
15.	AHU-2	Filling Area	7.5
16.		RH Room	7.5
17.		Sheet Extruder & Tube Extruder	15
18.	DM Water	Pure Feed water Pump-1	1.1
19.		Pure Feed water Pump-2	0.35
20.		Distilled water collection Pump	5.5
21.		DM Water Pump-1	2.2
22.		Soft Water Pump-2	1.79
23.		Hot Water Pump-1	2.2
24.	ETP	Sewage Pump	3.7
25.		Blower-2	2.2
26.		Transfer Pump-2	0.5
27.		Transfer Pump-3	0.5
28.		Sludge Pump	3.7
29.	Cooling	Cooling Tower Fan -1	2.2
30.	Tower	Cooling Tower pump-5	3.7
31.		Cooling Tower Fan-5	0.75
32.		Cooling Tower Fan -3	7.5

ELECTRICAL LOAD IN PLANT LIGHTING, FAN & A/C

Sl. No	Equipment Name	Capacity (KW)
1	Main Block	69
2	Sales & Store	16



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ELECTRICAL LOAD IN IT BUILDING

Sl. No	Equipment Name	Capacity (KW)
1	IT & Purchase	14
2	Computers and accessories	4
3	AC Unit	6

ELECTRICAL LOAD IN NEW CANTEEN


Sl. No	Equipment Name	Capacity (KW)
1	Lighting	7.5
2	Kitchen Equipments	3
3	Semi Automatic Strapping machine(CU-T)	0.2

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SCHEDULE – D

QUALIFICATION CRITERIA

1. The Audit firm shall be accredited by Bureau of Energy efficiency Govt. of India/Energy Management Centre, Kerala and shall have successfully carried out at least 10 comprehensive energy audits of major Chemical Process industries, having annual turnover of more than 100 Crores, and proof of the same shall be submitted
2. Sample brief energy audit report (executive summary) of the last 5 comprehensive Audits, conducted by the firm in the Large / Medium scale Industry sector during the last three years shall be submitted along with the offer.
3. There shall be ONE Lead Auditor of the Energy Audit Team and he shall be a Graduate in Engineering and a certified energy auditor, having a minimum of 10 years of Industrial experience and an additional experience of 5 years in energy audit and related services. The lead auditor shall be available on site throughout during the audit, evaluation and reporting phase.
4. In addition to the lead auditor, there shall be minimum TWO members in the Energy Audit Team and shall be available onsite throughout the audit. They shall be having a minimum of 5 years of Industrial experience, of which a minimum of 3 years shall in Energy Audit / Cleaner Production Audit field. The audit team shall be consisting of minimum ONE Mechanical and ONE Electrical Engineer.
5. The detailed CV of all the Team members to be submitted along with the Technical Bid.
6. Subcontracting of audit is not permissible

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7. Reference letter from at least FIVE firms in which the audit firm has successfully carried out the audit shall be submitted with email, telephone number of the contact person.
8. List of Instruments used for Energy Audit with make & model no of instrument and valid calibration certificate shall be submitted with the Technical bid.

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SCHEDULE – E

APPLICATION FOR PREQUALIFICATION

SL NO	DESCRIPTION	DETAILS
1	Name and Address of Tenderer GST No. (if any) PAN No	
2	Name of contact person (along with designation, address, telephone, mobile No and email id).	
3	Are you a MSME vendor? : If Yes , Please mention, a) Your social category (SC/ST/OBC) : b) Whether you are a Women Entrepreneur : c) Udyog Aadhar No :	
4	Bank account details : a) Name & Address of your Banker(s) : b) Account No : c) IFS Code Any other details :	
5	Tender fee paid details:	
6	EMD paid details:	
7	Type of Firm: (Public Sector/Private Sector/ Proprietorship / Govt. / NGO etc.)	
8	No. of branch offices (list complete addresses of all the branches with telephone, fax & email addresses)	
9	Year of establishment of the firm	
10	Year of commencement of energy auditing activities of the firm Annual turnover of firm from energy audit services (please attach statement certified by chartered accountant / Annual report)	
11	Does the firm have any accreditation from BEE (please attach support documents)	
12	No. of full-time energy auditor (attach detailed CV of each one)	
13	No. of Part Time energy auditors or other consultants (Attach Detailed CV of Each one)	
11	Sectors in which the firm has conducted energy audits since 2012 <ul style="list-style-type: none"> • Aluminium • Fertilizers 	




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	<ul style="list-style-type: none"> • Iron & Steel • Cement • Pulp & paper • Alkali • Sugar • Textile • Chemicals • Thermal Power Stations, • Hydel Power Stations, • Electricity • Transmission Companies & Distribution Companies 	
12	<p>Subject wise Expertise</p> <p>Energy audit of process system (pls Specify Sector)</p> <p><input type="checkbox"/> Energy audit thermal utility system</p> <p>o Boilers</p> <p><input type="checkbox"/> Steam System</p> <p>o Furnaces (pl specify)</p> <p><input type="checkbox"/> Insulation And Refractories</p> <p>o Co-Generation systems</p> <p><input type="checkbox"/> Waste Heat Recovery Systems</p> <p>o Any Other Energy audit electrical utility system</p>	
13	<p>Instruments available</p> <p>a) Electrical (list the name of the instruments)</p> <p>Please attach detailed specification of the meters</p> <p>b) Thermal (list the name of the instruments)</p> <p>Please attach detailed specification of the meters</p>	

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SCHEDULE-F

<u>DETAILS OF ENERGY AUDIT CONDUCTED DURING LAST 5 YEARS</u>		
Sl. No.	Name of Client with full address, telephone numbers and nature of item supplied	Period of Completion with dates (in months)

SIGNATURE OF TENDERER WITH SEAL



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SCHEDULE-G

DETAILS OF ONGOING ENERGY AUDIT, if any

Sl. No.	Name of Client with full address, telephone numbers and nature of item	Description of about the audit	Value of service order (in lakhs)

SIGNATURE OF TENDERER WITH SEAL

 HLL Lifecare Limited	HLL LIFECARE LIMITED (A Government of India Enterprise) AKKULAM PLANT, SREEKARIYAM P.O, THIRUVANANTHAPURAM-695017	HLL/AFT/PUR/ENGG/EN ERGY AUDIT/2022-2023
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SCHEDULE-H

ACCEPTANCE FORM

(To be submitted in the letter pad of the firm indicating full name and address, telephone & fax numbers etc.)

From

To

Joint General Manager (Materials)
HLL Lifecare Limited
(A Government of India Enterprise),
AKKULAM FACTORY, Sreekariyam, Thiruvananthapuram – 695017,
Ph: (++91 471) 2442641, 2442642, 2445930
E-mail: materialsaft@lifecarehll.com


Dear Sir,

I / We, hereby offer to conduct energy audit as detailed in schedule hereto or such portion thereof as you may specify in the acceptance of Bid at the price given in the price bid and agree to hold this offer open for 90 days from the date of bid opening prescribed by the Purchaser. I/We have understood the terms and conditions mentioned in the invitation for bid and Conditions of Contract furnished by you and have thoroughly examined the scope of work quoted in the bid document hereto and are fully aware of the nature of the scope of work required and my/our offer is to comply strictly in accordance with the requirement and the terms and conditions mentioned above.

The following pages have been added to and form part of this bid.

Yours faithfully,

SIGNATURE OF THE BIDDER WITH SEAL

 HLL Lifecare Limited	HLL LIFECARE LIMITED (A Government of India Enterprise) AKKULAM PLANT, SREEKARIYAM P.O, THIRUVANANTHAPURAM-695017	HLL/AFT/PUR/ENGG/EN ERGY AUDIT/2022-2023
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SCHEDULE – I

INDEMINITY CLAUSE:

If the bidder fails to execute the order within the time prescribed violates or infringes the existing rates as agreed to as mentioned in the service order, the bidder shall and will indemnify the company against all loses or damages whatsoever to be incurred or sustained including the legal cost or expenses incurred by the company by reason of non-completion of audit at agreed rate within the time specified in the service order. The company will initiate legal action if the supplier fails to execute the service order as per the schedule in the order for the actual loss suffered. No quantity tolerance will be permitted in this regard unless otherwise prior approval is taken by the company. Responsiveness of the Bid shall be at the discretion of HLL.

The bidder shall have no right to change the scope mentioned in service order.

Bid pronounced Non Responsive by HLL shall be summarily rejected.

The decision of HLL will be final and no correspondence of this shall be entertained.


We have read and understood the above conditions and agree to abide by the same.

PLACE:

NAME AND SIGNATURE OF THE APPLICANT

DATE:

(WITH OFFICE SEAL)

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SCHEDULE - J

DECLARATION

We confirm having read and understood all objectives, scope of work, terms and conditions and other requirements of the above tender (both expressed and implied) in full and that we agree to abide by all without any deviation.

SEAL OF THE APPLICANT

SIGNATURE
NAME AND ADDRESS OF APPLICANT

 HLL Lifecare Limited	HLL LIFECARE LIMITED (A Government of India Enterprise) AKKULAM PLANT, SREEKARIYAM P.O, THIRUVANANTHAPURAM-695017	HLL/AFT/PUR/ENGG/EN ERGY AUDIT/2022-2023
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SCHEDULE - K

Bid Security Declaration Form (For MSME bidders)

Date: _____ Tender No. _____

To

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of TWO YEARS from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity
- c) fail or reuse to execute the contract, if required, or
- d) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed :


Designation :

Name :

(Duly authorized to sign the bid for an on behalf of)

Date:

Corporate Seal

 HLL Lifecare Limited	HLL LIFECARE LIMITED (A Government of India Enterprise) AKKULAM PLANT, SREEKARIYAM P.O, THIRUVANANTHAPURAM-695017	HLL/AFT/PUR/ENGG/EN ERGY AUDIT/2022-2023
	INVESTMENT GRADE ENERGY AUDIT	20-10-2022

SCHEDULE - L

PRICE BID

SI No	Item Description	Amount (Rs.)
i	Basic Price	
ii	GST (..... %)	
iii	Grand Total (Rs.)	

VALIDITY: 90 DAYS FROM THE DATE OF OPENING OF PRICE BID

Remarks:

1. Statutory Deductions such as PF & ESI charges, TDS, etc will be deducted as per rules from the Bill / Invoice.
2. Income Tax (2% on Contract Amount) will be deducted with the submission of PAN as per rules; else 20% will be deducted.
3. Payment: - 100% against the submission of Final Audit Report and certification of HLL Lifecare Ltd, Akkulam Factory officials.

Certified that the rate quoted will hold good for 90 days, during which period no upward revision will be asked for.

NAME OF TENDERER: _____

Place:
Date:

ADDRESS AND SIGNATURE OF THE TENDERER
(WITH OFFICE SEAL)