

E-TENDER DOCUMENT

E-Tender No. PEDA/EC/2024-25/13

FOR

**SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF
ENERGY MONITORING SYSTEM IN
6 GOVT. MEDICAL COLLEGES / HOSPITALS
IN THE STATE OF PUNJAB**



**PUNJAB ENERGY DEVELOPMENT AGENCY
SOLAR PASSIVE COMPLEX,
PLOT NO. 1 & 2, SECTOR 33-D, CHANDIGARH-160034
PHONE: 0172-2663328, 2663382,
Website: www.peda.gov.in Email: ec.peda@punjab.gov.in**

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1. NOTICE INVITING E-TENDER



**PUNJAB ENERGY DEVELOPMENT AGENCY,
SOLAR PASSIVE COMPLEX,
PLOT NO. 1 & 2, SECTOR-33 D, CHANDIGARH.
PHONE: 0172-2663328, 2663382
www.peda.gov.in, ec.peda@punjab.gov.in**

E-TENDER NOTICE NO. PEDA/2023-24/23

Punjab Energy Development Agency (PEDA) invites online e-tenders from companies regarding Supply, Installation, Testing & Commissioning of Energy Monitoring System in 6 Govt. Medical Colleges / Hospitals in the State of Punjab.

Bid Document Fee	Rs. 5,000/-
EMD Fee	Rs. 1.25 Lakhs
Date of Sale for Start of Downloading of e-tender document	27.08.2024 at 11:30 AM
Pre-bid Meeting	05.09.2024 at 11:30 AM in PEDA Office, Sector 33-D, Chandigarh
Closing Date & Time for Submission of techno-commercial e-bids	23.09.2024 upto 4:00 PM
Date & Time for Opening of Technical e-Bids	24.09.2024 at 11:30 AM

Note – Any corrigendum related to this e-tender will be published on e-proc portal & PEDA website only.
PEDA may accept or reject the e-bids without any reason thereof.

DIRECTOR

2.0 Background

Punjab Energy Development Agency (PEDA) is the State Nodal Agency for promotion and development of new and renewable sources of energy and it is also the State Designated Agency for implementation of the Energy Conservation Act-2001 in the State of Punjab. PEDA has initiated various projects of Energy Conservation and Energy Efficiency in the state under the guidelines of Bureau of Energy Efficiency (BEE), Ministry of Power, Govt. of India.

2.1 Objective of the Project

The objective is to install Energy Monitoring System to monitor & measure the vital electrical parameters & installation in the following 6 Govt. Medical Colleges / Hospitals in the State of Punjab.

1. Govt. Hospital, Patiala
2. Govt. Medical College, Patiala
3. Govt. Medical College, Amritsar
4. Govt. Nanak Dev Hospital, Amritsar
5. Govt. Gobind Singh Medical College, Faridkot
6. Guru Gobind Singh Govt. Hospital, Faridkot

This energy monitoring system should be enabled to integrate more buildings at different locations. It should also be enabled to generate reports on daily, monthly & annually basis. The proposed system shall consist of the following provisions but not limited to the same:

- (i) Collection of Electrical data like Voltage, Current, Power, Power Factor, Total Harmonic Distortion by installing meters / wifi-routers with sensors at different sub-feeders.
- (ii) System should be enabled to generate online data reports through web browsing / cloud-based system so that it may be feasible to remotely monitor the energy scenario.
- (iii) Presentation of the data in a user-friendly screen configuration dashboard.
- (iv) Providing information about energy consumption at mains incomer & in different feeders.
- (v) System capacity / configuration should be such that it should be feasible to integrate more buildings (atleast 25) with this existing system.

To showcase / demonstrate more energy efficiency in the Hospitals, it is proposed to provide energy monitoring system in the building of Hospitals & Medical Colleges.

3. Scope of work

The Scope of work covers Supply, Installation, Testing & Commissioning of Energy Monitoring System as per detail given in the **Annexure-I**. The objective is to only monitor & showcase the energy consumption with various parameters on hourly, daily, monthly and annually basis along with real time data monitoring through wireless based system for a period of 3 years. The scope of work also covers to provide operational training to atleast three persons including PEDDA official & concerned Govt. Medical Colleges / Hospitals at site regarding the smooth operation and generation of reports in useful excel, pdf & user-friendly report formats on digital dashboard.

4.0 Minimum Eligibility Criteria

The interested bidders must fulfill the following eligibility criteria:

1. The bidder should be a company registered under Indian Companies Act, 2013 or LLP under LLP Act 2008 or Partnership firm.
2. Joint Ventures/ Consortium are not eligible to apply.
3. The bidder must be in operation for a minimum period of 5 years upto date of start of e-tender document downloading.
4. The bidder should have average annual financial turnover of Rs. 50 Lakhs during F.Y. 2020-21, 2021-22 & 2022-23. The bidder should submit CA Certificate & GST return for the turnover verification along with audited financial statements for the F.Y. 2020-21, 2021-22 & 2022-23, the bidder should submit CA Certificate.
5. The bidder should be in profit in last two years out of three financial years i.e., 2020-21, 2021-22 & 2022-23.
6. The bidder should have working experience of similar work from last three years. The similar work completed like SCADA set-up, BMS or EMS set-up, supply, installation & monitoring of digital energy meters, digital energy data analysis or cloud-based energy data monitoring work. The proof of having this experience clearly mentioning the nature of work and the period during which the work has been undertaken should be submitted. The total months / years of working in the area of energy efficiency should be clearly stated.
7. The bidder should have presence in North India for throughout support regarding project commissioning & operation. Submit supporting document.

8. The bidder should not be involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this contract. (Self declaration)
9. The bidder should not be black-listed by any Central/State Government / Public Sector Undertaking in India. (Self declaration)
10. The bidder should submit an OEM authorization certificate with tender documents.

5.0 Validity of Bid

Proposals shall remain valid for a period of three months from the date of opening of technical e-bids. A proposal valid for shorter period may be rejected as non-responsive.

6.0 Timeline

The completion period for whole of the work is 4 (four) months from the date of issue of the work order.

7.0 Bid Prices

- (a) The proposal shall be as described in the Bill of quantities and technical specifications. Corrections, if any, in the bid shall be carried out by editing the information before electronic submission.
- (b) All duties, taxes and other levies payable by the BIDDER under the contract or any other cause shall be included in the rates, prices & total bid price submitted by the BIDDER.
- (c) The rates quoted by the BIDDER in the financial bid shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- (d) The financial bid rates should be submitted in Indian Rupees only.

8.0 Preliminary Scrutiny

Preliminary scrutiny of the proposal will be made to determine whether they are complete, whether required process fee has been furnished, whether the documents have been properly signed, and whether the bids are generally in order. Proposals not conforming to such preliminary requirements will be prima facie rejected.

9.0 Submission of Bids

The completed tenders should be submitted through e-tendering process i.e., technical bid & financial bid separately. The technical bid shall contain all the required documents and testimonials (duly signed) for fulfilling the tender condition. The technical bid furnish by the BIDDER would be first open and technically evaluated by the

committee. The committee may call the BIDDERS for presentation on the conceptual design and drawing of the system. BIDDER should fill the information / details in **Annexure-II**.

10.0 Evaluation of Proposals

The proposals would be evaluated on the basis of the pre-qualification / eligibility criteria and BIDDERS prior experience in the areas mentioned above. However, PEDDA in its sole/absolute discretion can apply whatever criteria deemed appropriate in determining the responsiveness of the Tender submitted by the respondents. Financial Bids of only those bidders who will qualify technically will be opened & evaluated.

11.0 Guarantee

All equipments shall be guaranteed for a period of three years from the date of taking over the installation by the client against unsatisfactory performance and/or break down due to defective design, workmanship of material. The appliances / equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith replaced free of cost, to the satisfaction of the PEDDA.

12.0 Performance Security

The bidder shall be bound to submit a Performance Security of 10% of contract value valid for a period of 36 months within 15 days from the date of issue of work order in the shape of Bank Guarantee issue by Nationalized Bank or Demand Draft in favour of "Punjab Energy Development Agency" payable at Chandigarh. The Performance guarantee / Security shall be released after 36 months of successful completion of work.

The Bank Guarantee shall be interpreted in accordance with the laws of India and the courts at Chandigarh shall have exclusive jurisdiction. The Guarantor Bank represents that this Bank Guarantee has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein. This Bank Guarantee shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank. This Bank Guarantee shall be a primary obligation of the Guarantor Bank and accordingly PEDDA shall not be obliged before enforcing this Bank Guarantee to take any action in any court or arbitral proceedings against the BIDDER, to make any claim against or any demand on the BIDDER or to give any notice to the BIDDER or to

enforce any security held by PEDDA or to exercise, levy or enforce any distress, diligence or other process against the BIDDER. PEDDA shall be entitled to encash the performance bank guarantee submitted by the BIDDER or part thereof in order to impose penalty upon the BIDDER for non-fulfillment any of the obligations provided under the tender.

13.0 Bid Security / Earnest Money Deposit (EMD)

The bidder shall furnish earnest money of Rs. 1,25,000/- (Rupees One Lakh Twenty-Five Thousand Only) through IMPS / RTGS mode. The entire fee to be submitted through e-procurement portal of Govt. of Punjab. The EMD will not be accepted no other any mode.

14.0 Payment Terms

Payment shall be made in the following manner:

1. Mobilization advance of 10% of the total work order value less GST will be released against Bank Guarantee of 110% amount valid for six months or till the time of mobilization advance is adjusted.
2. 70% payment of the total value of complete consignment for each site mentioned in the work order along with 100% Taxes and duties will be released after inspection and acceptance of material by PEDDA and receipt in good condition at destination by concerned beneficiaries. The 10% mobilization advance released under clause (14.1) will be adjusted in this payment and relevant BG will be released on completion of adjustment of entire 10% advance. The bidder shall submit complete detail of Bill of Material, material inspection report and receipt of material for release of payment.
3. 20% payment will be released on successful supply, installation, testing & commissioning to the satisfaction of PEDDA.
4. 10% payment will be made after 3 months of successful completion of the guarantee period.
5. Tax deduction will be made as applicable.

15.0 Penalty for Delay

- a. The time allowed for carrying out the work as per the work order shall be strictly observed by the Agency and shall be reckoned from the date on which the order to commence work is given to the company.
- b. The work shall throughout the stipulated period of the contract be proceeded with all due diligence (time being deemed to be the essence of the contract on the part of the BIDDER).

- c. Work order shall be cancelled if BIDDER fails to complete the work within the stipulated time period and forfeiture of performance security.
- d. Failure to complete the work within the stipulated time period, the bidder shall be liable for penalty @1% of the total work order value for every week of delay or part therefore subject to the maximum of 10% of project work order value for the project. Reaching on maximum, penalty may also attract cancellation of the work order and forfeiture of performance security.
- e. In case of non-fulfillment of any of the obligation provided under the tender, PEDDA shall be free to impose penalty as stipulated in clause 15(d) which may be realized by PEDDA from the encashment of EMD / PBG / any other payment payable to the BIDDER.
In case, the BIDDER doesn't fulfill any of its obligations with regard to the allotted work under the tender or / and indulges into any malpractices, PEDDA reserves its rights to initiate legal proceedings against the BIDDER, including but not limited to debarring / blacklisting the BIDDER from carrying out business with PEDDA in future.

16.0 Force Majeure

- 16.1 The BIDDER hereto shall be wholly or partially prevented from performing any of its obligations under this Agreement by reason of or on account of lightning, earthquake, fire, floods, invasion, insurrection, rebellion, mutiny, civil unrest, riot, epidemics, explosion, the order of any court, judge or civil authority, change in applicable law, war, any act of God or public enemy or any other similar cause or reason reasonably beyond its control and not attributable to any negligent or intentional act, error or omission, then BIDDER shall be excused of its obligations/ liabilities under this agreement and shall not be liable for any damage, sanction or loss resulting there from to the PEDDA.
- 16.2 The BIDDER invoking this clause shall satisfy the PEDDA of the existence of any Force Majeure event and give written notice within seven (7) days of the occurrence of such Force Majeure event and also take all reasonable and possible steps to eliminate, mitigate or overcome the effect and consequence of any such Force Majeure event.

17.0 EXTENSION IN SCOPE

PEDDA may extend the scope of work at its sole discretion at mutually agreeable terms & conditions.

18.0 TAXES AND DUTIES

The price quoted shall remain fixed and firm during the period of contract and shall not be subject to change due to any increase in price of services. Taxes and statutory duties if any, imposed on services shall be paid as applicable at the time of delivery.

19.0 AWARD OF CONTRACT

The bidder quoted L1 rates will be awarded with the work order.

20.0 Special Terms & Conditions

1. These conditions of contract are meant to amplify the specifications, schedule of quantities and drawings in addition to those conditions specified from time to time as additions or omissions to those said general conditions of contract.
It is not intent to specify completely herein all aspects of design and constructional features of equipments and details of the work to be carried out, nevertheless, the equipment and work shall conform in all respects to high standards of engineering and design and workmanship and shall be capable of performing in continuous commercial operation in a manner acceptable to the Engineer-in-charge who shall interpret the meaning of the specifications and drawings and shall have right to reject or accept any work or material which in his assessment is not compete to meet the requirement of this specifications and or applicable code and standards mentioned elsewhere in this specifications.
2. The copies of the relevant technical literature /specs should accompany the tender.
3. Instructions Manuals for operation and maintenance wherever applicable should be supplied along with the equipment free of cost.
4. The BIDDER shall be responsible for after sale service during the guarantee period.
5. The materials / equipments are to be guaranteed for trouble free performance for a minimum period of one year after installation. The defect if any, during the guaranteed period are to be rectified free of charge by arranging free replacement where ever necessary.
6. The complete installation should be initially started and checked out for operational compliance by the company's representative.
7. BIDDER must take prior approval from PEDDA before installation of any Energy Monitoring System Equipments.

Deliverables

1. Submission of Detailed Drawing, Design for approval
2. Approval of the Drawing & Design
3. Supply of material and equipment at site.
4. Installations of energy monitoring system as per scope of work.
5. Testing
6. Commissioning
7. Training
8. Handing over to Medical College/ Hospital along with all documents
9. Any other item required for successful operation of system

21.0 General Terms & Conditions:

- i. Bids should be submitted through e-tendering process.
- ii. Bidders are required to quote rates in the financial bid only.
- iii. The rates should be through rates including all taxes, GST, levies, freight and octroi etc.
- iv. The undersigned does not bind himself to accept the lowest rate or any bid and reserve to himself the right of accepting the whole or part of the bid and BIDDER shall be bound to perform the same at the quoted rates.
- v. GST or any other tax on the material or the turnover shall be payable by the BIDDER and PEDDA will not entertain any claim in this respect.
- vi. The BIDDER shall comply with the provisions of Apprentices Act, 1961, Minimum wages Act, 1948 workmen's compensation Act, 1923, Contract Labour (Regulation and abolition) Act 1970 Payment of wages Act, 1936. Employees Liability Act 1938, Maternity Benefits Act 1961, and The Industrial Dispute Act, 1947, as applicable and the rules and regulations issued there-under from time to time. Failure to do so shall amount to breach of the contract and the nodal officer may at his discretion, terminate the contract. The Architect / Consultant shall also be liable for any pecuniary liability arising on account of violation by him of provisions of the Act.
- vii. Unless otherwise stated, the contract shall be for the whole work as described in the scope of work. The BIDDER shall be bound to complete whole the work as described.
- viii. BIDDER shall visit the all six sites before submission of bids to satisfy himself regarding location, prevailing condition of existing work etc.
- ix. The following documents shall accompany the bid:
 - (a) Proof of submission of Earnest Money / Bid Security.
 - (b) Registration Certificate of the Company or as the case to be applicable.
 - (c) List of works executed and/or in progress with agreement cost and certificate of satisfactory completion & performance from the clients.

(d) Declaration Letter (**Annexure-III**).

(e) Any other document required to complete the bid.

- x. Incomplete bid or bids not fulfilling any of the conditions specified above are liable to be rejected without assigning any reason.
- xi. The conditional bids and bids without EMD / Bid Security shall not be entertained.
- xii. The scope of work can be increased or decreased by PEDDA at any time.
- xiii. PEDDA reserves the right to accept or reject any or all the bids without assigning any reason thereof.
- xiv. In case of any interpretation/ clarification with regard to the tender documentation, the CEO shall be the competent authority in this regard, whose decision shall be final.
- xv. No intimation to the BIDDERS whose bids have been rejected shall be provided separately. The status of the bids shall be uploaded on the e-procurement-portal of Punjab Government and PEDDA website.
- xvi. In case of any question, dispute or difference what so ever arises between PEDDA and the BIDDER in connection with this tender, the same shall be referred for arbitration before the sole Arbitrator. The arbitration shall be governed by Arbitration & Conciliation Act 1996 as amended upto date. The place of Arbitration shall be at Chandigarh. The award rendered by the sole Arbitrator shall be final and binding on both the parties. Work under the tender will remain in progress during the arbitration proceedings unless otherwise directed by the competent Authority/Court.
- xvii. That in case of any misrepresentation / concealment / false submissions made by the BIDDER at the time of submission of the bids, the BIDDER will be debarred / blacklisted from any further dealing with PEDDA.
- xviii. Any bidder or prospective bidder who is aggrieved that any decision, action or omission of the PEDDA can file an appeal within 3 days before appellate authority i.e., Chief Executive, PEDDA as per this bid document.
- xix. In case of emergency / exigency, PEDDA retains the right to split the allocation of work.
- xx. That in case of any misrepresentation / concealment / false submissions made by the bidder at the time of submission of the bids, the bidder will be debarred / blacklisted from any further dealing with PEDDA.
- xxi. All disputes relating to this work shall be subject to the jurisdiction of Chandigarh and Chief Executive, PEDDA shall be the sole arbitrator.
- xxii. PEDDA reserved the right to accept or reject any or all the bids without assigning any reason thereof.

DIRECTOR

ANNEXURE-I

SCOPE OF WORK

Supply, Installation, Testing & Commissioning of Energy Monitoring System in 6 Govt. Medical Colleges / Hospitals at 3 Districts in the State of Punjab.

Sr. No.	Description of Items	Unit	Total Qty.	Remarks
1.	Supply & Installation of Multifunction Meter / Wi-fi router (Voltage, Ampere, Power Factor, KVA, KVAR, KW, KVAh, KVARh, KWh) Accuracy: Class 0.5 as per IEC 62052-11:2020, IEC 62053-21 & IEC 61010-1:2020 Display Type: 91 X 91 with LED Display Communication: RS 485 Energy Meters Harmonics: %THD Voltage & %THD Current upto 15 th Order. Make: L&T / Schneider / Siemens / 75F / ABB / Secure Meters	No.	120	The energy meters to be installed in different buildings at 6 various Govt. Hospitals & Medical Colleges. The enclosure must be IP65 rated to cover the multi-functional meters. The data to manage and record backup for the last one year and further 3 years operation & maintenance to cover in this work. Accuracy – Class 1 One dashboard to be provided by the bidder and accessible with login & password to access dashboard with atleast 10 users from multiple places.
2.	Supply & Installation of cloud-based Energy Management System RS 485 port, Suitable to Pick data from 15 Nos. of Modbus Device. The Data logger shall have IP 54 / IP 65 enclosure. Note- The data logger should support date logging functions so that CSV file logs can be stored in the basic CPU memory for at least 60 days to maintain the log in case of network connection failure. The stored data will automatically restore in the SCADA system	No.	30	Complete wireless-based system with complete connectivity through internet and shared on website & phone. Data loggers with real time monitoring
3.	Cloud based Energy Monitoring Software along with Alarm, Trends & fully reporting features. Licensed WEB Server for monitoring of data from remote locations for 3 years. Allows access to the software to multiple users. Software license for all integrated meters. Acknowledgement, Notification, prioritization, User Management, & fully reporting features, unlimited tag with lifetime license	No.	1	Applicable license for 3 years. 1 centralized license for all systems. Integrated software with customized report and real time monitoring. The Software platform should be certified and following ISO standards.
4.	GPRS Router (1 x Wan, 1 x LAN, 2 x SIM Slot, 1 x Wifi Antenna, input 24-volt DC, 5G support	No.	30	Dual network redundancy (Vendor will install 2 different network SIM)
5.	Communication Cable: Single pair twisted Cable 4 core 1 sq.mm. (shielded) For Modbus: 2 core 1.5 sq.mm (shielded) Make- Polycab / Finolex / Belden / Lapp	Mtr.	500	Communication cable to be used as & when required at the site as per actual

6.	Power cable 2.5 sq.mm. 3 core armored cable Make - Polycab / Finolex / Lapp	Mtr.	100	Power cable to be used as & when required at the site as per actual
7.	LED Display Monitors 55" to visualize the complete consumption pattern in graphical & excel format. Make: Sony / Panasonic. Suitable for 24 x 7 Operation 1 no. wireless Mouse & Keyboard	No.	6	1 display monitor each at all building premises in 3 districts Display type – LED display of make Panasonic / Sony
8.	Integrated display monitor framework at PEDDA Office, Chandigarh with display of all 6 buildings 1 no. wireless Mouse & Keyboard	No.	1	1 centralized display monitor at PEDDA office to check & monitor all systems at one place including real time data monitoring 85 Inch LED Display with latest smart data device configurations of make Panasonic / Sony

*Note –

1. The items like Software, Modbus, Router, Screen, Display will be in the scope of bidder as per complete Wi-Fi / wireless-based system & are required for successful commissioning of EMS systems in 6 Govt. Medical Colleges / Hospitals at 3 Districts in the State of Punjab to be completed by the bidder.
2. MFM meter will communicate with the data logger through Modbus RS485 protocol, and the data logger will communicate with the local SCADA using the time-stamping protocol. The local SCADA will communicate with the control room SCADA using the time-stamping protocol through a cloud server.
3. For any additional meters or cable etc. to be installed at the Site will be paid as additional cost to the bidder as per actuals in addition to the above-mentioned items in tabular format.
4. The data visualization to be provided in graphical & tabular format with customized range including real time data monitoring hourly, daily, monthly and yearly energy consumption and further to be extracted in excel format as and when required.
5. The complete digital hierarchy map to be prepared by the bidder where the energy consumption pattern is happening at various locations in the specific buildings i.e., floor wise, item wise & activity wise data of energy consumption in all 6 Govt. Hospitals & Medical Colleges at 3 Districts in the State.
6. The Energy Monitoring system to be provided for a period of 3 years with complete commissioning, operation & maintenance.
7. Any additional item required to be provided at the site for complete wireless-based energy monitoring system including dashboard, site, presentation, router, wi-fi facility, connectivity, screen, display, integration, visualization etc. will be in the scope of work and responsibility of the bidder.
8. The security of data and cloud management will be the sole responsibility of the bidder. Cyber security would be completely in the scope of the bidder. The data to manage & operate for 3 years in the scope of work. The data shall not be shared with any other organization. The data shall be protected in all means.
9. The site visit & actual condition of setting-up all systems at all locations will be in the scope of the bidder.

10. Excel data formats to be downloaded from dashboard covering V, A, PF, Harmonics, Energy Consumption on hourly, daily, monthly, and yearly data with proper architectural hierarchy of the electricity consumption at all places.
11. Company registration certificate should be provided by bidder. All new meters & data loggers to be provided by bidder.
12. Variable quantity will be recheck and evaluated, accordingly the bidder to quote unit wise rate of each item so that the variable extended quantity will be provided according to the unit rates.

Data Logger Specification.

Sr. No.	Parameters	Value
1.	Processor type	TI ARM Cortex-A9 32-bit-RISC
2.	Processor Clock speed	Min 300 MHz
3.a)	User Program code and data memory	Min 2 MB
b)	Flash memory for User data	Min 30 MB
c)	Retain memory	Min 128 kB
4.	Number of onboard ethernet ports	Min 2
5.	Number of onboard serial interface	Min 1
6.	Memory Card (SD Card)	6 GB
a)	Physical link	Configurable for RS-232 or RS- 485 (9.6 kb/s, 19.2 kb/s, 38.4 kb/s, 57.6 kb/s and 115.2 kb/s) IEC 104
b)	Usage	Serial ASCII communication, Modbus RTU
7.	Data backup and Data buffering time at 25 °C	Lithium Battery and Typ. 3 years
8.	Real-time clock:	
a)	With battery backup	Yes
b)	Accuracy	Typ. ± 2 s / day at +25 °C
9.	Program execution:	
a)	Cyclic, Time-Controlled, Multitasking	Yes
b)	Minimum cycle time configurable for cyclical task	1 ms
c)	Minimum number of tasks	20
10.	Number of timers and counters	Unlimited
11.	Cyber Security - The System must be compliant with IEC-62443 Standards and Achilles level 2 certified	
12.	User Management	
a)	Project security	Yes
b)	Device security	Yes

ANNEXURE-II

To
The Director,
Punjab Energy Development Agency,
Solar Passive Complex, Plot No. 1 & 2,
Sector-33-D, Chandigarh-160034.

Subject: Supply, Installation, Testing & Commissioning of Energy Monitoring System in 6 Govt. Medical Colleges / Hospitals in the State of Punjab.

Respected Sir,

We _____ established in the year _____ based at _____. With reference to your Tender No. _____ dated _____. We have attached our Company / Firm documents & filled information as required in the tender for your reference.

Sr. No.	Description	Detail submitted by the BIDDER
1	Name of the BIDDER	
2	Type of the BIDDER	
3	Address of Corporate Office	
4	Address of Works	
5	Address for Correspondence	
6	Phone, Fax no., E- Mail Address	
7	BIDDER authorized contact person/ persons and his/ their contact details (attach authority letter)	
8	Nature of business generally performed by the BIDDER.	
9	Detail of EMD of 1,25,000/- (Rupees One Lakh Twenty-Five Thousand Only): submitted	
10	GST No. (attach copy)	
11	The BIDDER should be in the same field since last three years (attach proof).	
12	Name of similar works executed by the BIDDER (give detail & attach project completion certificates)	

13	Detail of valid License issued by Govt. of India or from any State Govt. for electrical works.	
14	Annual Turnover of last three financial years.	
	2020-21	
	2021-22	
	2022-23	
15	Profit or loss in last three financial years.	
	2020-21	
	2021-22	
	2022-23	

Yours faithfully

(Signature of Authorized Person for this Application)

Name:

Designation:

Stamp of BIDDER:

Date:

Place:

Tender Form: Declaration Letter

Declaration Letter on stamp paper head stating the following:

We are not involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this contract

We are not black-listed by any Central / State Government / Public Sector Undertaking in India

Witness:		BIDDER:	
Signature	_____	Signature	_____
Name	_____	Name	_____
Address	_____	Designation	_____
	_____	Company	_____
Date	_____	Date	_____
	_____		_____

ANNEXURE-IV

Format for Covering Letter (On Respondent's Letter Head)

Date:

To

The Director

Punjab Energy Development Agency

Solar Passive Complex

Plot No. 1-2, Sector 33-D, Chandigarh-160034

Sub: Supply, Installation, Testing & Commissioning of Energy Monitoring System in 6 Govt. Medical Colleges / Hospitals in the State of Punjab.

Sir,

1. I/We, the undersigned, having read and examined in detail the tender documents in respect of work to PEDDA, do hereby express our interest to provide the services as specified in the tender.
2. I/We have read the provisions of tender and confirm that these are acceptable to us and further declare that additional conditions, variations, deviations, if any, found in our proposal shall not be given effect to.
3. Until the formal final Contract is prepared and executed between us, this proposal shall constitute a binding contract between us.
4. We hereby declare that all the information and statements made in this proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.
5. We understand you are not bound to accept any proposal you receive.
6. I/We have not indulged in any corrupt or fraudulent practices in preparing this proposal.
7. The person signing the cover letter and the proposal has due authorization.
8. I/We shall bear all costs incurred in connection with the preparation and submission of the proposal and to bear any further pre-contract costs
9. I/We are enclosing copies of CVs of persons employed in the organization along with copy of certificates.

10. I/We are enclosing all the documents as per eligibility criteria mentioned in the tender.

11. Our correspondence details are:

1	Name of the Bidder	
2	Address of the Bidder	
3	Name of the contact person to whom all references shall be made regarding this tender	
4	Designation of the person to whom all references shall be made regarding this tender	
5	Address of the person to whom all references shall be made regarding this tender	
6	Mobile No.	
7	E-Mail of the contact person	

12. We also understand that any decision taken by Chief Executive, PEDDA shall be final and binding on both the parties.

Thanking you,

Yours faithfully,

(Signature of Authorized Person for this Application)

Name:

Designation:

Stamp of BIDDER:

Date:

Place:

Format for Prior Experience

Name of BIDDER:
Assignment / Job Name:
Nature of Assignment:
Description of Project:
Location within country:
Duration of Assignment / Job (months):

Note: Please attach Letter of Intent or Work Order and Certificate of successful completion for each project, from the respective Client(s).

(Signature of Authorized Person for this Application)

Name:

Designation:

Stamp of BIDDER:

Date: