

**Punjab Energy Development Agency
E-Tender Reference No.: PEDA/2023-24/05**

E-Bids are invited for

**Supply, Installation, Testing & Commissioning of
Minimum BEE 5 Star rated minimum BEE 5 Star rated high
energy efficient Submersible Pump-sets in all respect of
Municipal Corporation, District Amritsar**



**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**

Notice Inviting Tender



E-Tender No. – PEDA/2023-24/05

E-Bids are invited for Supply, Installation, Testing & Commissioning of Minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient Submersible Pump-sets in all respect of Municipal Corporation, District Amritsar

1.	Starting Date for Sale of DNIT	24.01.2024
2.	Pre-Bid meeting	30.01.2024 at 11:30 AM
3.	Closing Date and time for submission of E-Bids	09.02.2024 till 3:30 PM
4.	Opening Date and Time for Technical E-Bids	12.02.2024 at 3.30 PM
5.	Cost of Bid Document (Rs.)	Rs. 2,500/-
6.	E- Processing fee (Rs.)	As applicable through online mode only.
7.	Earnest Money Deposit (Rs.)	Rs. 20,000/-

- The detailed terms and conditions, scope of work, eligibility criteria, Performance Guarantee and place of submission of Bids etc. are given in the bid document, which can be downloaded from the www.eproc.punjab.gov.in or www.peda.gov.in.
- Prospective bidders are requested to remain updated for any kind of notices/updates/amendments/modifications/clarifications etc. to the bid document conditions in the website www.eproc.punjab.gov.in or www.peda.gov.in only. No separate notifications will be given for such notices/updates/amendments/modifications/clarifications etc. in the print media (press) or individually.
- For participating in the above e-tendering process, the bidders shall have to get themselves registered with www.eproc.punjab.gov.in and get user ID and Password. Class-2 & 3 Digital Signature is mandatory to participate in the e-tendering process. For any clarification / query regarding bid-document or its clauses, bidders can contact PEDA at 0172-2646384, for any technical help regarding e-tendering process flow, please contact E-tendering helpdesk at 0172-2970263, 2970284.
- Technical / Financial Bid Forms in bid document are for reference purposes only. Bidders have to download the Bid Forms from e-tendering website (www.eproc.punjab.gov.in) only after payment of bid document cost.
- Corrigendum if any will be uploaded on the website www.eproc.punjab.gov.in or www.peda.gov.in. No separate notice shall be published in press.
- PEDA, reserve the right to accept or reject any or all the bids and annul the entire bidding process without assigning any reason thereof.
- Pre-bid meeting will be held on 10.03.2023 at 11:30 AM at PEDA Office, Chandigarh. No queries will be entertained after pre-bid meeting.

DIRECTOR

E-Tender no: PEDDA/2023-24/05

Supply, Installation, Testing & Commissioning of
High Energy Efficient Submersible Pump-sets in all respect of
Municipal Corporation, District Amritsar

TENDER SUMMARY

Tender No.	EMD (Rs.) by on-line payment only	Tender form fee (Rs.) by on-line payment only	Tender Processing fee by on line payment only	Starting date for Sale of DNIT	Pre-Bid meeting	Bid Submission	Bid Opening
Tender No. PEDDA/ 2023-24/05	20,000/-	2,500/-	As applicable for the bid.	24.01.2024	30.01.2024 at 11:30 AM	09.02.2024 till 3:30 PM	12.02.2024 at 3:30 PM

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SECTION-I INVITATION FOR E-TENDER

Punjab Energy Development Agency (PEDDA), Chandigarh invites E-tenders from eligible bidders for Supply, Installation, Testing & Commissioning of Minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient Submersible Pump-sets in all respect of Municipal Corporation, District Amritsar.

BID CONDITIONS:

1. Bidders are advised to study the Bid Document carefully. Submission of Bids shall be deemed to have been done after careful study and examination of the Bid Document with full understanding of its implications.
2. Online offers prepared in accordance with the procedures enumerated in Section-II should be submitted on-line not later than the date and time laid down in this document.
3. The PEDDA reserves the right to reject any bid or all the bids or withdraw Notice Inviting Tender without assigning any reasons and revising quantity, fine-tuning specifications as per requirement/result of clarifications / site visit in between the period of sale of this document before opening the technical bids.
4. Bidders/ Supplier are to submit online tenders by accessing tender documents on the e-tendering website, fill it and submit the completed tender document into Electronic Tender form on the website itself. Bidders / Contractors shall attach scanned copies of all the papers, i.e. Earnest Money, Tender Form Cost & the certificates as required in Eligibility criteria.
5. Corrigendum / Addendum / Corrections, if any will only be uploaded on the website.
6. The Performa for Appraisal of Bidder Capability (Performa-2) & Price Bid in Excel sheet format (Performa-8) will be visible after purchase of Bid Document.
7. If the date of opening of tenders happens to be a holiday, then tenders will be opened on the next working day.
8. PEDDA reserves the right to increase/decrease/nullify the DNIT quantity without assigning any reason.
9. The submitted bids shall be valid for 90 days from date of opening of financial bid. No bidder/firm or its subsidiary firm or its parent firm shall be allowed to submit alternate bids. If such bids are found by PEDDA, then the same and related bids shall be summarily rejected.
10. Addressee and Address at which Bids are to be submitted:
www.eproc.punjab.gov.in
For
Director
Punjab Energy Development Agency,
Solar Passive Complex
Plot No. 1 & 2, Sector 33-D, Chandigarh
Tel- no. 0172 – 2646384
E-Mail – ec.peda@punjab.gov.in
11. **Technical Bids** will be opened on the prescribed date and time.
12. **Financial Bids** of only those Bidders will be opened who qualify technically. The information regarding date of financial bid opening shall be made available on the web site.

13. Please note that financial aspects (prices, cost etc.) should not be indicated in the Technical Bid and should be quoted only in the Financial Bid.
14. The General terms and conditions of the BID are elaborated in Section-III.

SECTION-II

INSTRUCTIONS AND GUIDELINES TO BIDDERS FOR USING E-PROCUREMENT SYSTEM FOR BID SUBMISSION

1. REGISTRATION OF BIDDERS ON E-PROCUREMENT SYSTEM:

For participating in the e-tendering process, the Suppliers shall have to get themselves registered with www.eproc.punjab.gov.in and get user ID, Password. Class II or III Digital Signature is mandatory to participate in the e-tendering process.

2. DIGITAL CERTIFICATES:

The Bids submitted online should be signed electronically with a Class II or III Digital Certificate to establish the identity of the Bidder submitting the Bid online. The Bidders are required to obtain Class II or III Digital Certificates issued by ITI / Punjab Infotech Ltd. A Class II or III Digital Certificate is issued upon receipt of mandatory identity proofs along with an Application Form. Only upon the receipt of the required documents, a Digital Certificate can be issued.

Note: It may take up to 2-3 working days for issuance of Class II or III Digital Certificate after completion of required documentation, hence the bidders are advised to obtain them at the earliest.

For any clarification/difficulty regarding e-tendering process flow, please contact on 0172-2970263, 2970284 or Contact PEDDA Tell-no. 0172 – 2646384 or 8699007080, 9680039127.

3. PUBLISHING OF N.I.T.:

For the Tenders processed using the e-Procurement System, only a brief Advertisement related to the Tender shall be published in the newspapers and the Detailed Notice shall be published only on the e-Procurement System. The contractors can view the Detailed Notice and the time schedule for all the Tenders processed using the e-Procurement System on the website www.eproc.punjab.gov.in.

4. KEY DATES:

The Bidders are strictly advised to follow the time schedule (Key Dates) of the Tender given in the Tender Summary in this document for their side of tasks and responsibilities to participate in the Tender as all the stages of each Tender are locked before the start time and date and after the end time and date for the relevant stage of the Tender as set by Punjab Energy Development Agency.

5. PURCHASE OF TENDER DOCUMENT:

The Tender documents can be purchased only online can be downloaded from the website: www.eproc.punjab.gov.in. Arrangements have been made for the Bidders to make payments online via IPG (Internet Payment Gateway) / Internet Banking/NEFT/RTGS. As this is online tendering, the application form for the purchase of tender documents shall not be required.

The Bidders are to purchase the tender documents online by making online payment of tender document fees using the service of the secure electronic payments gateway via one of the payments modes as mentioned above, and should print out the system-generated receipt for their reference that can be produced whenever required.

6. SUBMISSION OF EMD:

The Bidders are to deposit the Earnest Money of Rs 20,000/- online by making online payment using the service of the secure electronic payments gateway via one of the payment modes as mentioned in clause - 5 above, and should print out the system-generated receipt for their reference that can be produced whenever required.

7. PRE-BID CLARIFICATIONS:

For any Pre-bid queries, the bidders are advised to email their queries and there will be also physical pre-bid meeting on 30.01.2024 at 11:30 AM in PEDDA Office Chandigarh and PEDDA will reply through this email: ec.peda@punjab.gov.in. No queries will be entertained after pre-bid meeting.

8. AMENDMENT OF BID DOCUMENT:

At any time upto the last date for receipt of bids, the PEDDA may, for any reason, whether at his own initiative or in response to a clarification requested by prospective Bidders, modify the Bid Document by an amendment:

- a. The amendment will be notified on the website and will be binding on the prospective bidders.
- b. In order to afford prospective Bidders reasonable time or otherwise for any other reason, in which to take the amendment into account in preparing their bids, PEDDA may, at his discretion, extend the last date for the receipt of Bids.

9. OPENING OF TENDERS:

The concerned Officials of the department will open the Technical Bid online on the date and time stipulated in the NIT. In case the tender could not be opened on due date and time, the same will be opened in the subsequent working day/days at the same time. Date & time of the financial bid opening will be uploaded on the

web site. Financial Bids of only technical qualified bidders will be opened on that date and time.

Financial Bid of only Technical Qualified Bidders will be opened on that date & time. Date & time of Financial Bid opening will be uploaded on the website.

10. COST OF BID PREPARATION:

The Bidder shall bear all costs associated with the preparation and submission of its Bid, including cost of presentation for the purposes of clarification of the bid, if so desired by PEDA and PEDA will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

The Bidder is expected to carefully examine all instructions, forms, terms and specifications in the Bid Document. Failure to furnish all information required in the Bid Document or submission of a bid not substantially responsive to the Bid Document in every respect will be at the Bidder's risk and may result in the rejection of the bid.

11. AUTHORISED SIGNATORY:

Tender must bear Full/Complete signatures of a person authorized as per constitution and composition of the bidder. Authenticating documents to prove authority of signatory (Legal power of attorney in favour of signatory) must be attached with the tender. Name and Designation of the so authorized signatory must be indicated with each signature. It may be noted that in case signatures do not tally or differ, such signatures shall not be considered authentic.

All the correspondence with PEDA shall also bear signature of the so authorized signatory, in this manner. Any correspondence with improper signatures shall not be entertained.

For any clarification/difficulty regarding e-tendering process flow, please contact on 0172-2970263, 2970284, 8699007080, 9680039127 or Contact PEDA Tell-no. 0172 – 2646384. E- Mail – ec.peda@punjab.gov.in

SECTION - III
TERMS AND CONDITIONS OF THE BID

1. LANGUAGE OF BID:

The Bids prepared by the Bidder and all correspondence and documents related to the bids exchanged by the Bidder and PED A, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern.

2. PRE- QUALIFYING CRITERION:

A. Technical Criterion:

- (a) The Bidder must be partnership or proprietorship or bidder registered under Indian Companies Act, 2013 or LLP registered under Limited Liability Partnership Act, 2008 or Partnership or Proprietorship firm.
- (b) The bidder should have successfully completed similar works i.e., Supply & Installation of Submersible or Horizontal pump-sets in Rural/MSME/Urban/Private Companies during last 3 years which should not be less than Rs. 10 Lakhs and shall provide the copies of work orders along with completion certificate including scope of work, details of the total monetary value of works and performance certificate as per Performa-3.
- (c) The bidder should not be black-listed by any Central/State Government / Public Sector Undertaking in India. (Self-declaration).
- (d) The bidder should not be involved in any major litigation with PED A. (Self-declaration).

B. Financial Criterion-

- (a) The bidder should have Average Annual Turnover of Rs. 10 Lakhs during last three financial years i.e. 2020-21, 2021-22 & 2022-23.
- (b) The bidder should be in profit in last three financial years i.e. 2020-21, 2021-22 & 2022-23.
- (c) The bidder should have positive net worth in last three financial years i.e. 2020-21, 2021-22 & 2022-23.
- (d) Bidder must submit the GST Certificate.

3. TECHNICAL BID WILL CONSIST OF THE FOLLOWING:

- (a) Submersible Electrical Motor Driven Minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient Pump capable of delivering 48CMH against a head of 40.00 mtr. with 7.5KW Sub. Motor coupled with SS304 Multistage Pump SET suitable for 415V,3Phase-50HZ AC.

(1a). Motor & Pump Specifications:

- Sub. Motor Water Field: 7.5 KW, 3 Phase (10 HP)
- Voltage: 415V 50Hz
- Motor Rating: Motor
- Sub. Multistage Pump: Vertical Pump
- Flow: 48cmh /cm³
- Head: 40.00 mtr.
- PUMP MOC: SS304
- Frequency: 60% efficiency of the pump having ZERO Negative tolerance on pump efficiency as per ISO 9906 grade 1E. If any manufacturer / bidder supplying less than 60% Efficiency maximum star rated pumps-sets then the lower efficiency shall not be considered.

(1b). Motor & Pump Specifications:

- Sub. Motor Water Field: 5.5 KW, 3 Phase (7.5 HP)
- Voltage: 415V 50Hz
- Motor Rating: Motor
- Sub. Multistage Pump: Vertical Pump
- Flow: 32.4 cmh/cm³
- Head: 40.00 mtr.
- Pump Moc: SS304
- Frequency: 60% efficiency of the pump having ZERO Negative tolerance on pump efficiency as per ISO 9906 grade 1E. If any manufacturer / bidder supplying less than 60% Efficiency maximum star rated pumps-sets then the lower efficiency shall not be considered.

(b) Pump Shall have a name plate indicating head, discharge, stages, RPM and direction of rotation

- Digital Flow Meter should be installed: Flow Sensor Body: SS 304 Liner Material: PTFE Measuring Electrodes Material / Grounding: SS-304 Process Connection: Flange Nominal Pressure: 10kg/cm² Accuracy: +/- 0.5% Measuring Flow Range: m³/hr Temperature Range: 80 Degree C Medium Conductivity: > 10.0 s/cm Calibration Certificates: Standard Converter Display Protection: IP 65 Display: Integral Power Supply: 230V AC / 24 V DC Display: LCD Display Output: 4-20mA, RS-485

(c) Bid Proposal Sheet as per Performa-1 of Section-V.

(d) Particulars of Bidder as per Performa-2 of Section-V.

(e) Proof of ability/experience as per Performa-3 of Section – V.

(f) General & Technical Deviations, if any, from the terms and conditions and specifications must be elaborated in Performa-4. Failing which, it would be assumed that there are no technical deviations and the full responsibility lies on the Bidder.

- (g) In addition to the above all the details as per (Performa 5-8) to be uploaded.
- (h) Scanned copies of all the documents mentioned in DNIT to be uploaded.

4. FINANCIAL BID WILL CONSIST OF THE FOLLOWING:

- (a) Bid prices duly filled, signed and complete as per the Price Schedule on the prescribed Performa-8.

Note: -

- 1. The above Performa will be visible after purchase of Bid Document only.
- 2. The prices will be fixed during the contract period.
- 3. Financial Deviations not allowed.

5. ISSUE OF WORK ORDER & SUBMISSION OF PERFORMANCE GUARANTEE:

- 1. The Bidder whose tender will be notified through work order.
- 2. The bidder shall be bound to submit a bank guarantee of 10% of the contract value valid for a period of 12 months within 15 days from the date of issue of work order. The Performance guarantee shall be released after 2 months of completion of guarantee period. Further, the EMD amount of successful bidder will be released on submission of Performance Security.
- 3. If successful bidder fails to submit performance security within 15 days, then amount of EMD will be forfeited.
- 4. An unexcused delay by the Bidder in the performance of its supply & installation obligations shall render him liable to penalties as mentioned in clause – 21 and in addition to that, Performance Security will be forfeited in case the maximum value of penalty is reached.
- 5. Hiding of facts, misrepresentation, wrong information, corrupt practices by the Bidder if revealed at any stage, withdrawing the bid after opening of financial bid, non-signing of contract within stipulated period would amount to forfeiture of EMD and subsequently the firm may be blacklisted.

6. STANDARDS:

The Goods supplied under this contract shall conform to the standards mentioned in the Technical Specifications, and when no applicable standards are mentioned, it should conform to the authoritative standards. Such Standard shall be the latest issued by the concerned institution governing that standard.

7. PRICES:

- a) The rates should be quoted F.O.R destination basis as given in performa-8. Freight charges and transit risk insurance covered in F.O.R. destination price.
- b) The prices shall be 'FIRM' and Applicable taxes shall be paid on actual basis.
- c) Taxes (TDS, GST, GST TDS etc.) shall be deductible as per law as applicable at the time of payment.
- d) The rates quoted should be given in both figures and words and any over-writing, erosions, cutting etc. should be legibly signed or avoided. If there will

be mismatch in the quoted rates in words & figures, then the rates quoted in words will be taken into consideration.

8. TAXES AND DUTIES:

The bidder shall be entirely responsible for all taxes, levies, cess, Octroi, duties, license fees, etc. incurred until completion of warranty obligations.

9. TERMS OF PAYMENT:

1. 10% of the contract value (i.e. total price of the contract price before taxes) will be released as mobilization advance on submission of Bank Guarantee of 110% (ABG) of the advance amount to be released.
2. 70% payment of basic value plus GST on actual basis will be released on supply of pump-sets with all required materials at various given locations / store at one place, Amritsar with adjustment of advance. The payment shall be paid against after submission of complete documents including Joint Verification Report (JVR) to be signed jointly by PEDDA Engineer and Representative of the bidder. The ABG will be released after adjustment of advance amount.
3. 30% payment will be released on successful installation & testing complete in all respect as per scope of work to the satisfaction of PEDDA.

10. DELIVERY SCHEDULE:

1. The complete system should be supplied & commissioned within 45 days from the date of issue of work order.
2. Complete consignment means pump-sets with all accessories as mentioned in the BOQ.
3. The bidder can be asked to advance the delivery depending upon the requirement of the works and accordingly the bidder will co-operate.

11. DISPATCH INSTRUCTIONS:

All equipment/material agreed for prior inspection by the PEDDA as per inspection schedule, shall be dispatched only after dispatch clearance given by PEDDA. The dispatch instructions shall be given by the inspecting officer at the works only after equipment offered for inspection is found conforming to specifications and to his satisfaction. The Contractor shall ensure that the dispatches are made in the strict sequence of requirement and according to the delivery/erection schedule given/approved by PEDDA.

12. INSPECTION AND TESTING:

The Agency at its discretion shall inspect, examine, and test the equipment/material through its officers and/or through an outside agency nominated by PEDDA at the manufacturer's /supplier's works, prior to dispatch on receipt of a clear notice of minimum 07 days in advance to be reckoned from the date of receipt by purchaser. Alternatively, the bidder may ask for the test certificate for the tests carried out by the manufacturer in line with the requirement of ISI. All the expenses of inspection including boarding lodging, travelling etc. will be borne by supplier.

13. SUPPLY OF T&P, SAFETY EQUIPMENT AND CONSUMABLES:

Except where otherwise specified the contractor shall at his own expenses supply and provide all the T&P, temporary works, material for installation, safety equipment, testing equipment etc. for both for temporary and for permanent works. This will also include supervision and labor including their transport to or from the site and their staying arrangements and any other and everything required for executing the entire works.

14. NIGHT WORK AND SAFETY PRECAUTIONS:

Night work shall not be allowed. The contractor is responsible to safeguard the workers and the public and suitable precautions shall be taken to prevent accidents and accidental falls.

15. SUB CONTRACT:

The contractor shall not subcontract any portion of the contract without the prior written approval of Director, PEDDA.

16. COMPENSATION UNDER WORKMEN'S COMPENSATION ACT:

The contractor shall be responsible for and shall pay any compensation to his workmen payable under the Workmen's Compensation Act, 1923 (VIII of 1923) or any other act applicable hereinafter called the said Act for injuries caused to the workmen. The contractor will take a policy with an Insurance Bidder to cover all his workers against injuries fatal/non-fatal during course of duty against Workmen's Compensation Act. The contractor shall submit a copy of the same before start of the work so that PEDDA is kept free from any liability.

17. INSURANCE

1. The rates are required to be quoted on F.O.R. destination basis and it is the responsibility of the supplier to deliver the goods in good condition at F.O.R. destination and for that purpose the Supplier at his own insure the material against all risks at his own cost during transit for full delivered value of the material up to destination. All works in connection with making and settling of claims, if any, with transporter and or Insurance Bidder shall be carried out by the Supplier/ Contractor for which no extra payment shall be made by the PEDDA.

2. All damages and or shortages during transit as covered by the insurance shall be made good immediately on receipt of such information from the consignees without waiting for settlement of claim.
3. The consignees shall report losses and damages to the firm within 10 days of arrival of the material at the site. It will, however, be supplier's responsibility to prefer timely claims on the insurance underwriters and to arrange replacement thereof to the consignees.
4. The suppliers shall be wholly responsible for the loss, shortages, and damages etc. during transit. Such shortages and damages etc. will have to be replaced/repared by Supplier / Contractor free of cost immediately without waiting for maturing of the Supplier's / Contractor's claims with the Road Transport/Railway Authorities.
5. In case the replacement/repair of defective material is not carried out within four weeks after detection of damage/loss/shortages. PED A shall replace the defective material at the risk and cost of supplier. The amount shall be redeemed from PBG of submitted by the Bidder.

18. APPROVAL OF INSTALLATIONS:

All the electrical works shall conform to the Indian Electricity Rules 1956. The contractor shall be responsible for obtaining all the statutory clearances of all the electrical installations from Chief Electrical Inspector, Punjab or any other govt. department and the copy of the clearance certificate shall be furnished to the PED A.

19. ERECTION, TESTING AND COMMISSIONING:

The above shall conform to the relevant Indian and International erection standards with following specifications:

- (i) Submersible Electrical Motor Driven Minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient Pump capable of delivering 48CMH against a head of 40.00 mtr. with 7.5KW Sub. Motor coupled with SS304 Multistage Pump SET suitable for 415V,3Phase-50HZ AC.

(1a). Motor & Pump Specifications:

- Sub. Motor Water Field: 7.5kw, 3 Phase
- Voltage: 415v 50Hz
- Motor Rating: Motor
- Sub. Multistage Pump: Vertical Pump
- Flow: 48cmh/cm3
- Head: 40.00 mtr.
- PUMP MOC: SS304
- Frequency: 60% efficiency of the pump having ZERO Negative tolerance on pump efficiency as per ISO 9906 grade 1E. If any manufacturer / bidder supplying less than 60% Efficiency maximum star rated pumps-sets then the lower efficiency shall not be considered.

(1b). Motor & Pump Specifications:

- Sub. Motor Water Field: 5.5kw, 3 Phase
- Voltage: 415v 50Hz
- Motor Rating: Motor
- Sub. Multistage Pump: Vertical Pump
- Flow: 32.4cmh/cm³
- Head: 40.00 mtr.
- Pump Moc: SS304
- Frequency: 60% efficiency of the pump having ZERO Negative tolerance on pump efficiency as per ISO 9906 grade 1E. If any manufacturer / bidder supplying less than 60% Efficiency maximum star rated pumps-sets then the lower efficiency shall not be considered.

- Digital Flow Meter should be installed: Flow Sensor Body: SS 304 Liner Material: PTFE Measuring Electrodes Material / Grounding: SS-304 Process Connection: Flange Nominal Pressure: 10kg/cm² Accuracy: +/- 0.5% Measuring Flow Range: m³/hr Temperature Range: 80 Degree C Medium Conductivity: > 10.0 s/cm Calibration Certificates: Standard Convertor Display Protection: IP 65 Display: Integral Power Supply: 230V AC / 24 V DC Display: LCD Display Output: 4-20mA, RS-485

20. STANDARD OF PERFORMANCE:

The firm shall carry out the supply order and carry out its obligations under the contract with due diligence, efficiency and economy in accordance with generally accepted norms techniques and practices used in the industry through qualified/licensed manpower. The Bidder shall also adhere to professional implementation and support services during the execution of the project. The PED/ may carry out benchmarking of sample equipment to be provided by the short listed Firm before and / or immediately after the delivery of equipment.

It shall employ appropriate advanced technology and safe and effective equipment, machinery, material and methods. Bidder shall always act in respect of any matter relating to this contract, as faithful advisors to the PED/ and shall, at all times, support and safeguard the PED/As legitimate interests in any dealings with the third party.

21. PENALTY:

1. The bidder is required to adhere delivery schedule as mentioned in Clause - 10 above.
2. In the event of delay in the supply as specified above, the bidder shall be liable to pay a penalty @ 2% value of the due consignment for every week of delay subject to a maximum of 10% value, after which PED/, shall be at liberty to cancel the contract. For the purpose of this clause, part of a week shall be considered a full week.

3. Relaxation in delivery period for the purpose of penalty shall be allowed if the delay is beyond the control of contractor or due to force majeure conditions. The decision in this regard shall be given by Chief Executive, Punjab Energy Development Agency.

22. WARRANTY PERIOD:

1. The supplier shall be responsible to replace free of cost with no transportation and insurance expenses to PEDA up to the destination of equipment, the whole or any part of the equipment which under normal and proper use and maintenance, proves defective in part/equipment or workmanship within 12 months from the date of commissioning of the complete system.
2. The above provision shall equally apply to the part/equipment so replaced by the Supplier under this clause in case the same is again found to be defective within 12 months of its replacement/repair.
3. The supplier shall keep sufficient relevant spares to meet with the urgent requirement of replacement in case of sudden failure of the pumps during warranty period to restart it within a period of 6 hours. In other cases, the replacement/repair of defective part/equipment if not carried out within one week of intimation of defects during the warranty period, PEDA shall replace the defective material at the risk and cost of supplier. The amount shall be, redeemed from PBG submitted by the Bidder.
4. The firm will provide preventive performance check once in three months and in case it is felt necessary will provide the preventive maintenance thereof.

23. "NO CLAIM" CERTIFICATE:

The bidder shall not be entitled to make any claim, whatsoever, against the PEDA under or by virtue of or arising out of this contract nor shall the PEDA entertain or consider any such claim, if made by the bidder after he shall have signed a "no claim" certificate in favour of the PEDA in such forms as shall be required by the PEDA after the works are finally accepted.

24. SUSPENSION:

PEDA may by a written notice of suspension to the Firm, suspend all payments to the Firm under the contract, if the Firm fails to perform any of its obligations under this contract provided that such notice of suspension:

- i. Shall specify the nature of the failure.
- ii. Shall request the bidder to remedy such failure within a specified period from the date of receipt of such notice of suspension by the bidder.

25. TERMINATION FOR DEFAULT:

PEDA may, without prejudice, to any other remedy for breach of contract, by written notice of default sent to the bidder, terminate the contract in whole or in part if:

- i. The bidder fails to deliver any or all of the obligations within the time period(s) specified in the contract, or any extension thereof granted by the PEDDA.
- ii. The bidder fails to performs any other obligation(s) under the contract.
- iii. The Firm shall be given maximum of two opportunities of 15 days each to improve his service level and meet the obligations as per the contract.

26. TERMINATION FOR INSOLVENCY:

PEDA may at any time terminate the contract by giving written notice to the bidder without compensation to the bidder, if the bidder becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or effect any right of action or remedy which has accrued thereafter to the PEDDA.

27. CONFIDENTIALITY:

The bidder and their personnel shall not, either during the term or after expiration of this contract, disclose any proprietary or confidential information relating to the services, contract or the PEDDA's business or operations without the prior written consent of the PEDDA.

28. DOCUMENTATION BY BIDDER IS PEDDA PROPERTY:

All plans, drawings, specifications, designs and other documents prepared by the bidder in the execution of the contract will be got approved from PEDDA and then shall become and remain the property of the PEDDA, and before termination or expiration of this contract, the bidder shall deliver all such documents to the PEDDA under the contract along with the detailed inventory thereof.

29. FORCE MAJEURE EVENTS:

The Force Majeure Events shall mean one or more of the following acts or events:

- i) Acts of God or events beyond the reasonable control of the Affected Party which could not reasonably have been expected to occur such as extreme adverse weather or environmental conditions, lightning, heavy rains, cyclones, tempest, whirlwind, landslides, storms, floods, volcanic eruptions or fire (to the extent originating from a source external to the site or not designed for in construction works);
- ii) Radioactive contamination or ionising radiation;
- iii) An act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, unexpected call up of armed forces, blockade, embargo,

blockade, rebellion, riot, religious strife, bombs or civil commotion, sabotage, terrorism;

- iv) Strikes or boycotts interrupting operations of the Plant;
- v) Any judgment or order of any court of competent jurisdiction or statutory authority in India made against the Bidder in any proceedings for the reason other than failure of the Bidder to comply with any Applicable Law or Clearances or on account of breach thereof, or of any contract, or enforcement of this Contract or exercise of any of its rights under this Contract by PEDDA.
- vi) Any other event or circumstance of a nature analogous to the foregoing.

30. COMPLETION PERIOD:

- i. The completion period will be 45 days from the date of issue of work order. The commissioning date of last site will be considered commissioning date of complete project.
- ii. The bidder can be asked to advance the commissioning of complete system depending upon the requirement of the work and accordingly the bidder will cooperate.

31. COMPLIANCE TO REGULATIONS AND BYE LAWS:

The contractor shall conform to the provisions of any statute relating to his workers and the work and regulations and byelaws of any local authority and or any Central / State Deptt. or undertaking in whose jurisdiction the work connected.

32. OTHER CONDITIONS:

- a. Risk purchase at the cost of bidder will be made on the failure of the bidder to make supply as per Terms and Conditions. The difference of excess in cost thus incurred will be received from the bidder in a suitable manner and even from his pending bills, earnest money or security whichever is available.
- b. If the contractor or his work people, or servants shall break, deface, injure or destroy any part of a building or existing equipment, the contractor shall make the same good at his own expense.
- c. All disputes, differences, claims and demands arising under or pursuant to, or touching the contract shall be referred to the arbitrator(s) as per the provisions of the arbitration Act. Such arbitration shall be held at Chandigarh.
- d. In all matters and disputes arising there under, the appropriate Courts at Chandigarh alone shall have jurisdiction to entertain and try them.
- e. No bidder/firm or its subsidiary firm or its parent firm shall be allowed to submit alternate bids. If such bids are found by PEDDA, then the same and related bids shall be summarily rejected.

Section – IV

DETAILED SCOPE OF WORK ALONG WITH BOQ & TECHNICAL PECIFICATIONS

1.0 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.

1.1 OBJECTIVE OF PROJECT

The objective of the project is to replace seven existing inefficient submersible pump-sets of district Amritsar under Municipal Corporation, Amritsar with Minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient pump sets. This project has been sanctioned under the “MUDSM program of Bureau of Energy Efficiency, Ministry of Power, Govt. of India, New Delhi.”

2.0 SCOPE OF WORK

The Scope of work covers Supply, Installation, Testing and Commissioning of minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient vertical pump-sets for replacing existing old inefficient pump-sets with minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient submersible vertical 7 nos. pump-sets with capacity 10HP & 7.5 HP of Municipal Corporation, Amritsar as specified in BOQ of the tender document. The details are mentioned at **Annexure-I.**

The minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient pump-sets will be installed with proper flow meters installed and complete in all respect and regular maintenance of pump-sets for atleast 1 year to monitor regular operation & feedback.

The bidder should provide latest Minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient pump-sets with Minimum 60% efficiency of the pump having ZERO Negative tolerance on pump efficiency as per ISO 9906 grade 1E. If any manufacturer / bidder supplying less than 60% Efficiency maximum star rated pumps-sets then the lower efficiency shall not be considered.

Although care has been taken to specify the scope of work but if there is any work essentially required for the work, which has not been mentioned in the scope of

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work that has to be carried out by the experienced / reputed bidder without any extra payment. PEDDA may increase or decrease the scope of work assigned to bidder anytime without prior approval at the discretion of competent authority of PEDDA.

BILL OF QUANTITY (BOQ)

Supply, Installation, Testing & Commissioning of Minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient Pump-sets of Municipal Corporation, Distt. Amritsar.

Sr. No.	Description of Item	Qty.	Unit
1.	<p>(High Efficient Pump-sets of MC Amritsar)</p> <p>1. Submersible Electrical Motor Driven Minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient Pump capable of delivering 48CMH against a head of 40.00 mtr. with 7.5KW Sub. Motor coupled with SS304 Multistage Pump SET suitable for 415V,3Phase-50HZ AC.</p> <p>(1a). Motor & Pump Specifications:</p> <ul style="list-style-type: none"> • Sub. Motor Water Field: 7.5kw, 3 Phase • Voltage: 415v 50Hz • Motor Rating: Motor • Sub. Multistage Pump: Vertical Pump • Flow: 48cmh/cm3 • Head: 40.00 mtr. • PUMP MOC: SS304 • Frequency: 60% efficiency of the pump having ZERO Negative tolerance on pump efficiency as per ISO 9906 grade 1E. If any manufacturer / bidder supplying less than 60% Efficiency maximum star rated pumps-sets then the lower efficiency shall not be considered. <p>(1b). Motor & Pump Specifications:</p> <ul style="list-style-type: none"> • Sub. Motor Water Field: 5.5kw, 3 Phase • Voltage: 415v 50Hz • Motor Rating: Motor • Sub. Multistage Pump: Vertical Pump • Flow: 32.4cmh/cm3 • Head: 40.00 mtr. • Pump Moc: SS304 • Frequency: 60% efficiency of the pump having ZERO Negative tolerance on pump efficiency as per ISO 9906 grade 1E. If any manufacturer / bidder supplying less than 60% Efficiency maximum star rated pumps-sets then the lower efficiency shall not be considered. 	1	No

	<p>Panel Specifications: Electric panel board consisting of automatic Star Delta Push Button Starter, Main Switch, Multi-functional Meter (MLF) with RS-485, ELCB, Shunt Capacitor, Single Phase preventer, LED Indicating Lamps, MCCB etc. complete in all respects as per standard Specifications.</p> <ul style="list-style-type: none"> Digital Flow Meter should be installed: Flow Sensor Body: SS 304 Liner Material: PTFE Measuring Electrodes Material / Grounding: SS-304 Process Connection: Flange Nominal Pressure: 10kg/cm² Accuracy: +/- 0.5% Measuring Flow Range: m³/hr Temperature Range: 80 Degree C Medium Conductivity: > 10.0 s/cm Calibration Certificates: Standard Converter Display Protection: IP 65 Display: Integral Power Supply: 230V AC / 24 V DC Display: LCD Display Output: 4-20mA, RS-485 		
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- Note:** (1) The scope of work includes disconnecting, removing, securing and storing the existing pump-sets at the nominated place as decided by the concerned authority / PEDDA.
- (2) A hoarding/display boards indicating the name of energy efficient project undertaken with details of investment and anticipated energy and monetary savings should be installed at project sites.
- (3) All above said pump-sets should be labeled with "Not for Sale – Energy Efficient Pump Demonstration Project".
- (4) All motors should meet Standards.
- (4) All the energy efficient appliances shall be conforming to the applicable BIS standards.
- (5) Centralized Energy monitoring system display should be installed at PEDDA office.
- (6) Any extra items executed during the installation of above work will be actual measured and paid as per latest CSR.

Annexure-I

Sr. No.	Name of Sites	Zone	Constituency	Ward No.	District	Status	Pump Capacity
1	SUS Nagar, 20 ft. Bazar	3	S	37	Amritsar	Running	10
2	Dhobi Ghat	7	E	29	Amritsar	Running	10
3	New Golden Avenue	7	E	30	Amritsar	Running	10
4	Gali Sewa Syal	4	C	59	Amritsar	Running	10
5	Gali Ganda Wali	4	C	60	Amritsar	Running	7.5
6	Indira Colony	4	C	68	Amritsar	Running	7.5
7	Rishi Vihar	6	N	12	Amritsar	Running	7.5

SECTION-V

Performa – 1

BID PROPOSAL SHEET

Bidder's Proposal Reference No. & Date :

Bidder's Name & Address :

Person to be contacted :

Designation :

Telephone No. :

Fax No. :

E – Mail :

To

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

Subject: Tender for Supply, Installation, Testing & Commissioning of Minimum BEE 5 Star rated minimum BEE 5 Star rated high energy efficient Pump-sets of Municipal Corporation, District Amritsar.

Dear Sir,

1.0 We, the undersigned Bidders, having read and examined in detail the works to be executed, its technical specifications, all terms & conditions of the bid and all bidding documents in respect of the subject cited work and do hereby confirm to provide the equipment and services as specified in the DNIT if our bid is accepted.

2.0 PRICE AND VALIDITY

2.1 All the prices mentioned in our proposal are in accordance with the terms as specified in bidding documents. All the prices and other terms and conditions of this proposal are valid for a period of 90 days from the last date of submission of bids.

2.2 We do hereby confirm that our bid prices include all taxes and cess including Income Tax and GST.

2.3 We have studied the Clauses relating to valid Indian Income Tax and hereby declare that if any Income Tax, Surcharge on Income Tax and any other Corporate Tax is altered under the law, we shall pay the same.

3.0 EARNEST MONEY

We have enclosed the required earnest money deposit Online along with the bid. It is liable to be forfeited in accordance with the provisions of bid document.

4.0 DEVIATIONS

We declare that all the services shall be performed strictly in accordance with the fine-tuned Technical specifications and other bid document except the deviations as mentioned in the Technical deviation Performa. Further, we agree that additional conditions, if any, found in the proposal documents, other than those stated in deviations Performa, shall not be given effect to.

5.0 BID PRICING

We further declare that the prices stated in our proposal are fixed and are in accordance with your terms & conditions in the bidding document.

6.0 QUALIFYING DATA

We confirm that we have submitted in qualifying data as required by you in your bid document. In case you require any further information/documentary proof in this regard during evaluation of our bid, we agree to furnish the same in time to your satisfaction.

7.0 CONTRACT PERFORMANCE SECURITY

We hereby declare that in case the contract is awarded to us, we shall submit the Performance Security as per terms of bid document.

- 7.1 We hereby declare that our proposal is made in good faith, without collusion or fraud and the information contained in the proposal is true and correct to the best of our knowledge & belief.
- 7.2 Bid submitted by us is properly prepared to prevent any subsequent alteration and replacement.
- 7.3 We understand that you are not bound to accept the lowest or any bid you may receive.

Thanking you.

Date

Signature

Name

Place

Seal

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Performa –2

Performa for eliciting information for appraisal of bidder capability to manufacture item(s)/ equipment as per requirements of PEDA Tender Specification.

1. Name of the tendering bidder	
A) Complete address of the office	
i) Telephone Number(s)	
ii) Fax Number.	
iii) E. Mail Address	
iv) Name of the two responsible persons along with Designation	
B) Complete address of the works from where material is intended to be manufactured and supplied against this tender enquiry.	
i) Telephone Number(s)	
ii) Fax Number.	
iii) Email Address.....	
iv) Name of the two responsible persons with Designation.	
C) Name, Addresses & Telephone No. of Chairman / Managing Director/Directors.	
i) Name	
ii) Address	
iii) Telephone/mobile Number	
i) Name	
ii) Address	
iii) Telephone/mobile Number	
i) Name	
ii) Address	
iii) Telephone/mobile Number	
2. Year of establishment of the bidder.	
a) Private Firm or Bidder.	
b) Registered under the companies Act, Give Registration No. & date.	
3. Memorandum and Article of Association of Bidder	
4. Financial Position:-	
i) Annual financial turnover (duly audited for the last three years) i.e. 2019-20, 2020-21, 2021-22	
ii) PAN No. & Proof of filling Income Tax Return for last three years of Bidder	
iii) CIN No.	
iv) GST No.	

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5. Production capability of the item covered in your bid.	
a) Detail of plant & machinery installed (Please attach separate sheets, if necessary)	
b) Quality controls exercised in procurement of raw materials.	
6. Whether items offered conforms to IS or any other internationally recognized Standard, if so, give reference.	
7. Whether the firm is licensed to use ISI Mark or any other Govt. quality mark (Copies of latest test certificates issued by Govt. Laboratories / any recognized Test House be attached)	
8. Authorized Signatory with authenticating document.	
9. Bid Document Fee (Non-Refundable)	
Amount (Rs. 2,500.00)	
Date	
Transaction No.	
1. E-Processing Charges (Non-Refundable)	
Amount (Rs.)	
Date	
Transaction No.	
2. Details of EMD (Rs. 20,000) (Rupees Twenty Thousand Only)	
Online Transaction No.	
Online Transaction Date	

Dated.

Authorized Signatory

Name: _____

Designation: _____

Address and Seal of the firm

NOTE:

- 1) Please attach additional sheets, where required.
- 2) Copies of documents attached with the Performa should be attested by the firm's authorized signatory with stamp mark of the firm.

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Performa –3

PROOF OF ABILITY / EXPERIENCE

The Bidder shall submit copies of WOs of similar type of works executed in last three years, along with proof of satisfactory execution in the form of certificate of completion etc. issued by the ordering agency/department.

S. no.	Description of equipment supplied.	Agency/ Department	WO No. & dt.	Total contract Value	Completion certificate attached (Y/N)	Name/ Designation, Address & phone no. of the contact official of Department/Agency.
1.						
2.						
3.						
4.						
5.						

Note: Copies of performance/ execution certificates or any other supporting documents having executed the work to any Department/Agency should be enclosed with the tenders. Only copies/ list of POs may not be treated as authentic proofs.

Dated.

Authorized Signatory

Name: _____

Designation: _____

Address and Seal of the firm

SCHEDULE OF DEVIATIONS

Bidder shall carefully state below any and all points in this proposal which are not in accordance with PEDA Technical Specification and the General Instructions: -

Sr. No.	Clause No.	Page No.	Technical Deviation, if any.
1.			
2.			
3.			
contd...			
Sr. No.	Clause No.		General Deviation, if any.
1.			
2.			
3.			
contd...			

We hereby certify that the above mentioned are the only deviations from Purchaser's aforesaid specifications and general conditions.

Dated

Authorized Signatory

Name: _____

Designation: _____

Address and Seal of the firm

Note: The bidder is to clearly indicate any deviation in technical & general terms and conditions in this Performa only. In case, the Technical Specification as well as General conditions of Tender Specifications are acceptable in Toto, the word 'NIL' shall invariably be put in the above Columns. In case, nothing is mentioned here then it shall be presumed that there is no deviation in the offer and terms and conditions of the specifications are acceptable to the bidder in Toto. Any deviation found elsewhere in hard copy/soft copy but not explicitly mentioned/referred above will be ignored and no communication regarding the same shall be entertained later on.

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Performa –5

Quality Assurance Certificate

Use of new, genuine and OEM Components.

This has reference to the quoted / to be supplied by your bidder against the tender no. **PEDDA/..... dt.**

We hereby undertake that all the equipment / components / parts etc. to be supplied / installed at Amritsar shall be original, new and genuine as per the technical specifications described in the DNIT, will be procured from respective OEMs of the quoted products. It is also certified that no refurbished/duplicate/secondhand components / parts shall be used.

In case we are found not complying with above indicated undertaking at the time of delivery or during installation, we allow the Punjab Energy Development Agency to take appropriate action (e.g. Forfeiture of Bank Guarantee, etc.)

Date.....

Signature.....

Note :

Bidder should provide the information on his quality assurance system.

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Performa –6

List of Drawings and Literature Enclosed with the Tender

SI No.	Drawing/ Literature No.	Titles
1	2	3

Seal of the Bidder

Signature

Name

Designation

Date

Note:

Bidder shall provide all the relevant drawings as detailed in technical specifications of the DNIT.