



NOTICE INVITING TENDER (E-Procurement mode)
भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान पुणे
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

An Autonomous Institution, Ministry of Human Resource Development, Govt. of India

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Limited Tender Reference No: IISER/PUR/1427A/19

Date: 29/07/2020

Indian Institute of Science Education and Research, Pune invites online bid (e-tender) in single bid system for the following.

Item Description: Procurement of HVLS Fan

The Tender Document can be downloaded from Central Public Procurement (CPP) Portal <https://eprocure.gov.in/eprocure/app> and bid is to be submitted **online only** through the E-procurement portal up to the last date and time of submission of tender.

Critical Dates of Tender

Sr.No	Particulars	Date	Time
1	Date of Online Publication/Download of Tender	29/07/2020	18:00 Hrs.
2	Bid Submission Start Date	29/07/2020	18:30 Hrs.
3	Bid Submission Close Date	11/08/2020	15:00 Hrs.
4	Opening of Bids	13/08/2020	14:00 Hrs.

No manual bids will be accepted. All quotation should be submitted in the E-procurement portal only

Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 0120-4200462, 0120-4001002, 91-8826246593.

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CHAPTER-1. INVITATION FOR BIDS

1. Indian Institute of Science Education and Research, Pune invites online bids (e-tender) in single bid system for **Procurement of HVLS Fan**. The Technical specifications are given in **Chapter 4: Schedule of Requirements, Specifications And Allied Technical Details**.

2. **Contact for information:**

Technical & Commercial contact:
Assistant Registrar (Stores & Purchase)
Indian Institute of Science Education and Research (IISER), Pune
Dr. Homi Bhabha Road, Pashan
Pune - 411 008, India
Tel : +91-020-2590 8246
Email: purchase@iiserpune.ac.in
Website : www.iiserpune.ac.in

3. Supply means: “Supply, Installation & Commissioning”.

4. **Submission of Bid:**

Bid Submission Start Date: 29/07/2020 from 18:30 Hrs
Bid Submission Close Date: 11/08/2020 up to 15:00 Hrs.
Opening of Bids: 13/08/2020 at 15:00 Hrs.

5. No manual bids will be accepted. All quotation should be submitted in the E-procurement portal only

6. The Offer should comprise of the following:

- (i) The offer should be complete to indicate that all products and services asked for are quoted.
- (ii) The purpose of certain specific conditions is to get or procure best Equipment/service etc. for IISER, Pune. The decision of Purchase Committee shall be the guiding factor for selection of the responsive firms.
- (iii) Duly filled in Bid with proper seal and signature on each page of the bid should be submitted online and the same should accompany with complete specifications, Manufacturer’s name, address and relevant Technical Literature / Brochures with warranty Terms.
- (iv) Agreements / Purchase Orders / Completion certificates if any, for similar works in other Institutes, the details of such supplies for the preceding

three years should be given together with the prices eventually or finally paid.

- (v) Copy of GST No. and PAN Number allotted by the concerned authorities. If registered with the National Small Industries Corporation, the registration number, purpose of registration and the validity period of registration and a copy of NSIC registration wherever it is applicable should also be provided in bid.
- (vi) The prices should be shown against each item for the purpose of Insurance claims / replacements if any.
- (vii) Compliance sheet with any deviation with reference to the terms and specifications.
- (viii) The item should be supplied with manuals and the manuals including technical drawings should be complete in all respects to operate without any problem.
- (ix) Duly filled in checklist as per Chapter 6 should be submitted along with tender.
- (x) The Bidders are requested to quote for Educational Institutional Price for Equipments, since we are eligible for the same

Note : IISER , Pune is requesting only Single Bid (Technical Specification and Price together) the Bidders must be extremely careful about the requirement mentioned in the tender and submit their quotes accordingly. Any shortfalls found during the tender evaluation such bids will be rejected without seeking any further clarifications from the bidders. Since it is a single bid any further clarification will cause/draw objections from other bidders.

All the bidders should quote their offer as per “Chapter - 5 Price Schedule” for uniformity.

7. Purchase Committee

The Purchase Committee will evaluate the tenders and may also nominate some external/expert members, in the interest of IISER, Pune.

8. Terms of the Purchase Committee

- (i) A committee duly constituted by the Director, IISER, Pune will go through the bids and recommend firms that are meeting all the specifications of

the Tender. The recommendation/decision of the purchase committee is the final and binding on all the parties.

- (ii) Purchase Committee will proceed through Bids as defined in **Chapter 4 (Schedule of requirements, specifications and allied technical details)**, in order to determine whether they are substantially responsive to the requirements set forth in the tender. In order to reach such a determination, IISER, Pune will examine the information supplied by the Bidders, and shall evaluate the same as per the specifications mentioned in this tender.
- (ii) The purchase committee may formulate evaluation criteria in addition to the specifications and requirements indicated in the tender, in the interest of IISER, Pune.

9. **Comparison of Responsive bids:**

- (i) After opening the bids, the responsive offers will be tabulated with reference to the specification.
 - (ii) After arriving at final pricing of individual offers of all the short listed firms, the lowest firm will be awarded with Contract/Purchase Order subject to availability of funds.
10. No request for extension of due date will be considered under any circumstances.
11. No sub-contracting is allowed with regard to installation, warranty maintenance and after sales service.
12. The Director, IISER, PUNE reserves the right to accept the offer in full or in parts or reject summarily or partly.

CHAPTER-2 : INSTRUCTIONS TO BIDDERS

Delivery Period / Timeliness

The deliveries & installation must be completed **within 30 days**, after placement of purchase order. The time is the essence of the contract. It is mandatory for the bidders who respond to this bid to meet these expectations, as are tightly linked to IISER, PUNE's plans of completing the project within the time frame.

Locations for the Supply / Services:

The **SUPPLY AND INSTALLATION of HVLS Fan** covered by this document is required to be done at IISER, Pune.

1. Eligible Bidders:

- 1.1 IISER, PUNE reserves the right to award / reject the order to any particular bidder without assigning any reason thereof.
- 1.2 Bidders should not be under a declaration of ineligibility for corrupt and fraudulent practices.
- 1.3 Bidders should QUOTE strictly in accordance with the requirements.
- 1.4 Bidders shall adhere to the procedure and processes laid down in this document and shall follow fair and ethical practices of trade.
- 1.5 Based on the list of installations provided by the bidder, IISER, PUNE will have its option to obtain details of the installations, their performance, after sales services etc. for evaluation of the tender, directly from the concerned organizations
- 1.6 Firms which have already supplied to IISER, PUNE and have not completed required installation/after sales service/warranty replacements etc. such firms offers will not be considered for further evaluation and no enquiries thereafter will be entertained.
- 1.7 Conditional Offers will not be considered.
- 1.8 IISER, PUNE will not provide any accommodation/transportation for the engineers/ representatives for attending installation. It is the absolute responsibility of the supplier to make their own arrangements.
- 1.9 The authorized person who signs the tender is required to indicate his e-mail ID, mobile No. and also general e-mail ID for easy and faster communication.

2. **Amendment of Bidding Documents**

At any time prior to the deadline for submission of bids, IISER, PUNE may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder may modify the bid document.

PREPARATION OF BIDS

3. **Period of validity of bids**

- 3.1. Bids shall be valid for a period of **90 days** from the date of opening the bid.
- 3.2. IISER, PUNE may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. A bidder agreeing to the request for extension will not be permitted to modify his bid.

AWARD OF CONTRACT

4. **Award Criteria**

- 4.1 IISER, PUNE shall award the contract to the technically eligible lowest bidder.
- 4.2 If more than one bidder happens to quote the same lowest price, IISER, PUNE reserves the right to award the contract to more than one bidder or any bidder.

5. **Purchaser's Right to vary Quantities at the time of Award**

IISER, PUNE reserves the right at the time of award of Contract to increase or decrease the quantity of items specified in the Schedule of Requirements without any change in price or other terms and conditions.

6. **Corrupt or Fraudulent Practices**

IISER, PUNE requires that the bidders who wish to bid for this project have highest standards of ethics.

- 6.1. IISER, PUNE will reject a bid if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract.
 - 6.2. IISER, PUNE may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the execution of contract
7. **Interpretation of the clauses in the Tender Document / Contract Document**

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, **Director, IISER, PUNE's interpretation of the clauses shall be final and binding on all parties**

CHAPTER - 3 : CONDITIONS OF CONTRACT

1. Price

- 1.1. The price quoted shall be considered firm and no price escalation will be permitted.
- 1.2. The price criteria should be on F.O.R., IISER PUNE. Govt. Levies like GST, if any, shall be paid at actual rates applicable on the date of delivery. Rates should be quoted accordingly giving the basic price, GST, if any.
- 1.3 Please provide GST of the firm allotted by the concerned authorities in your quotation.

2. Services

- 2.1. Details of services rendered as well as after-sales services offered by you are to be made clear in the tender.

3. Delivery Schedule

- 3.1. The bidders may please note that the delivery of the system should be strictly **within 30 days from the date of placement of firm order.**
- 3.2. Goods should not be dispatched until the Vendor receives a firm order.

4. Warranty / Support

- 4.1. The items covered by the schedule of requirement shall carry minimum **Two years of comprehensive warranty** from the date of acceptance of the equipment by IISER, PUNE. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 7 working days. The comprehensive warranty includes onsite warranty with parts.
- 4.2. The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, GST duties if any should be borne by the beneficiary . A clear confirmation should be given for this item.
- 4.3. The warranty on the associated software should cover providing of upgraded version/s, if any, released during the warranty period free of cost.

- 4.4. The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.
5. **Indemnity**
The vendor shall indemnify, protect and save IISER, PUNE against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipment's supplied by him.
6. **Freight & Insurance**
The equipment's to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at IISER, PUNE site.
7. **Payment**

PAYMENT TERMS-No advance payments are allowed under any circumstances.

Payment will be made directly to the suppliers by RTGS/NEFT after receipt of the goods, tested /inspected and found satisfactory with regard to quality, quantity, and specifications ordered for and after satisfying that the terms and conditions of supply have been fulfilled.
8. **Penalty for delayed Services / LD**
8.1. As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to. Otherwise the IISER will forfeit EMD/SD and also LD clause will be applicable /enforced.
8.2. If the supplier fails to Supply, Install as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 1% of order value per every week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.
8.3. IISER, PUNE reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the Security Deposit.
9. **Comparison of Bids**

The Purchaser shall compare all substantially responsive bids to determine the lowest valuated bid.
This Institute is following and abide with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCI Order No. P-45021/2/2017-B.E.II dated 15th June 2017 and subsequent amendments to the order. Accordingly

preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself.

10. **Jurisdiction**

The disputes, legal matters, court matters, if any, shall be subject to Pune Jurisdiction only.

11. **Force Majeure**

IISER, PUNE may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the Contract, is the result of a Force Majeure.

Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.) acts of states, the direct and indirect consequences of wars (declared or undeclared) hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises.

12. **Arbitration**

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. shall be referred by either party (IISER, PUNE or the bidder) after issuance of 30 days notice in writing to the other party clearly mentioning the nature of dispute to a single arbitrator acceptable to both the parties. The venue for arbitration shall be IISER, PUNE India. The jurisdiction of the courts shall be Pune, Maharashtra, India.

Assistant Registrar (Stores & Purchase)

CHAPTER 4

SCHEDULE OF REQUIREMENTS, SPECIFICATIONS & ALLIED TECHNICAL DETAILS

HVLS Fan :EAHVLS3E Dia : 10 Feet -01 No

HVLS Fan :EAHVLS3E Dia : 12 Feet-02 No

SITC of Electrical Cable and PVC Pipe Cover-60 Mtr

HVLS FANS SAFETY FEATURES

The Primary Safety is built into the design of the parts and secondary safety is provided by means of independent additional systems.

Part by part details as below.

a. Ceiling Support Structure i. Primary Safety = All the fabricated parts and fasteners the factor of safety is 2 times than the actual specifications as per design requirements. ii. Secondary Safety = 10mm SS Wire Rope wrapped 2 times to Ceiling and Fan support Structure in case of support bracket failures.

b. Main Chassis i. Primary Safety = All the fabricated parts and fasteners the factor of safety is 2 times than the actual specifications as per design requirements. ii. Secondary Safety = 4 Nos , 10mm SS Wire Rope Six fixed to chassis to additional 4 different locations in the shed / building.

c. Motor Shaft i. Primary = 35mm dia Shaft Motor / GB. ii. Secondary Safety = Special hub-in-hub Supports used in case of Shaft Failure.

d. Fan Blades i. Primary Safety = 6061 T6 special Aluminum Grade used for Blade profile which provides higher Tensile / Proof Stress / Elongation / Hardness as compared to 6063T6 grade used by other manufacturers. ii. The blade also has internal box section with ribs for additional mechanical strength as the blades have a Cantilever load on them. iii. Secondary Safety = 2 mm SS Wire Rope embedded in each blade in case of Breakage

e. Impeller Arm i. Primary Safety = 12 mm Thick Plate of ST 52 grade. 1. Secondary Safety = Additional support of hub – in – hub assembly.

f. All Fabricated parts Hot Dipped Galvanized to offer much superior surface protection on the exposed as well unexposed surfaces as compared to Powder Coating.

Technical Data

Extremely high level of primary safety for all components. 35 mm motor diameter/ M 14 bolts for structure & chassi/ Nylock. Nuts and Loctite for all fastners/Steel EN 10025 – 90 for structure & chassi/GI wire ropes with additional PVC coating Etc.

Secondary anti-fall safety systems provided for all major components such as

- 1) structure – secondary wire rope to lock to building structure.
- 2) blades – Embedded wire ropes in blades.
- 3) Hub – Special Z brackets for anti fall.

Performance : -

Aerofoil blade design with blade angel of 27 degrees for optimum air flow rate & Thrust.

Tapered fan blades for uniform air distribution.

High Efficiency motor & Gear Box.

Can be linked to Integrated Building Management system (IBMS) through VFD.

High grade 6061 T6 Aluminium alloy used for aerofoil blades.

IP 55 motor & Gear box with synthetic oil & VFD from manufacturer.

High grade steel upto 12 mm thick with hot dip galvanizing for best anti corrosion protection.

GI coated wire ropes with PVC coating.

The fans should be Certified by CE certified meeting international standards.
The fans are of size 12 feet and 10 feet to be installed at site. Details of which are detailed below.

10 feet diameter fans :-

HVLS fan make – Nutech / Echo Air / Crystal Alsan
Coverage area – Min. 4500 square feet.
Max Motor size – 1.5 KW
Airflow CFM – 90,000 CFM
RPM range – 80 to 115 RPM
Maximum Height available form ceiling to fan – 3 feet available
Motor make – Lenze/Nord
VFD Drive Make – ABB/Danfoss
Impeller material- ST 52 GRADE. B
Noise level - <45dBA @ 1 meter
Maximum Weight – 115 Kg
Fan Drive type - Geared Motor HVLS FAN

Power Supply - 230V+10% & 50Hz+1%

Blade Construction - Aluminum Alloy High Grade 6061 T6 –Anodized
Fan Type - Geared Motor HVLS FAN
FAN Diameter – 10 Feet
No. of Blades – 6 Numbers
Blades End caps – Plastic Extrusion
Operating Temperature - Max 46 degree Celsius
Fan control - Manual Control Panel through VFD & Speed UP/DOWN, Forward/Reverse, ON/OFF
Certification - CE
Power Usage – Max 1.1 KW
Onsite Warranty – 3 years

12 feet diameter fans :-

HVLS fan make – Nutech / Echo Air / Crystal Alsan
Coverage Area – Min. 6800 square feet.
Max Motor size – 1.5 KW
Airflow CFM – 1,10,000 CFM
RPM range – 80 to 115 RPM
Maximum Height available form ceiling to fan – 3 feet available
Motor make – Lenze / Nord
VFD Drive make – ABB / Danfoss
Impeller material- ST 52 GRADE. B
Noise level - <45dBA @ 1 meter
Maximum Weight – 115 Kg
Fan Drive type - Geared Motor HVLS FAN
Power Supply - 230V+10% & 50Hz+1%
Blade Construction - Aluminium Alloy High Grade 6061 T6 –Anodized
Fan Type - Geared Motor HVLS FAN
FAN Diameter – 12 Feet
No. of Blades – 6 Numbers
Blades End caps (Optional) – Plastic Extrusion
Operating Temperature – Max. 46 degree Celsius
Fan control - Manual Control Panel through VFD & Speed UP/DOWN, Forward/Reverse, ON/OFF
Certification - CE
Power Usage – Max 1.1 KW
Onsite Warranty – 2 years

Erection equipment:

The successful tenderer shall make his own arrangement for all Tools & tackles for erection of the equipment such as ladders, scaffolding, drilling machines and Etc.

Test certificate:

The copies of all routine and test certificate of the equipment carried at the manufacture's premises or otherwise shall be furnished to the consignee.

Guarantee and warranty:

The contractor shall guarantee the entire installation as per specifications both for components and for system as a whole. All equipment's shall have guaranteed for 2 years from the date of acceptance against unsatisfactory performance or break down due to defective materials, manufacture or installation. The work shall be covered by the condition that the whole installation or any part /material there of found defective within 2 years from the date of taking over shall be replaced or repaired by the contractor at free of charge as decided by the department.

The warranty shall cover consequential damages to the equipment supplied and installed, due to poor workmanship or materials. All such repairs shall be done promptly within a reasonable period. The warranty period will commence from the date of acceptance of the equipment as fitting for service or handing over whichever is later and will cover the following:

- a) Quality and performance of materials used.
- b) Safe mechanical and electrical stress on all parts under all specified conditions of operation.
- c) Satisfactory operation during the maintenance period.

After Sales Service:

The contractor shall ensure adequate and prompt service from of maintenance personal and spares as and when required with a view to minimize the break down period.

After testing, commissioning, the work shall be handed over to the department. There after Contractor shall maintain the whole installation for the period of 2 Years.

During Maintenance period, the contractor shall submit the fortnightly perform test, checking of general operating state of all control panels etc.

List of items which need replacement during servicing shall be submitted to department. The replacement shall be done without claiming any extra payment during maintenance Period.

CHAPTER-5 PRICE SCHEDULE
PRICE SCHEDULE FOR GOODS – INR

Name of the Bidder _____

Tender No. _____

1	2	3	4	5	6	7	8	9	10	11	12
Sl. No	Item Description	Country of Origin	Qty	Unit	Ex-Works. Ex-Warehouse, Ex-show room off the shelf price (inclusive of tax already paid)	Total price	GST payable, if contract is awarded	Packing & forwarding up to station of dispatch, if any	Charges of inland transportation, insurance up to Institute	Installation, Commissioning & training charges, If any.	Gross Total(FOR)
						Ex-Works. Ex-Warehouse, Ex-show room off the shelf price (inclusive of tax already paid) 4x6					
1											
2											
3											

Total Bid price in _____ in words.

Signature of Bidder :

Name :

Note:

The cost of optional items shall be indicated separately.

The bidder may add rows to include the prices of all components & warranties, installation etc. whichever applicable.

(a)Cost of spares _____

(b)Warranty if being charged include in BoQ

CHAPTER – 6 : Checklist: Eligibility Criteria for Bidders

Bidders to indicate whether the following are enclosed by striking out the non-relevant option.

(a)	Self Attested copy of GST number as applicable	(Yes / No)
(b)	Agreements / Purchase orders / Completion certificates, if any, from the clients for whom similar supply has been made by the bidder in last three years	(Yes / No)
(c)	Compliance sheet with any deviation w.r.t. the terms	(Yes / No)
(d)	LD clause agreeable.	(Yes / No)
(e)	Acceptance of warranty period and Free replacements during warranty period	(Yes / No)
(f)	Deviation Sheet to be Attached	(Yes / No)

IMPORTANT NOTICE

TENDERERS RESPONDING TO THIS ENQUIRY SHALL BE DEEMED TO BE AGREEABLE TO THE TERMS AND CONDITIONS HEREIN CONTAINED. THESE TERMS AND CONDITIONS SHALL BE BINDING ON THE SUCCESSFUL TENDERER. CONDITIONAL TENDERS ARE LIABLE TO BE REJECTED. IISER PUNE WILL PROCESS THE TENDER AS PER IISER PUNE STANDARD PROCEDURES. THE DIRECTOR OF THE INSTITUTE RESERVES THE RIGHT TO REJECT ANY OR ALL OR PART OF TENDER WITHOUT ASSIGNING ANY REASON AND SHALL ALSO NOT BE BOUND TO ACCEPT THE LOWEST TENDER. IISER PUNE WOULD NOT BE UNDER ANY OBLIGATION TO GIVE ANY CLARIFICATIONS TO THE AGENCIES WHOSE BIDS ARE REJECTED.

I agree to all terms and conditions mentioned in the tender document of the Institute

Signature of the Tenderer