

भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुपति

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI

Date: 14/01/2020

Transit campus: C/o Sree Rama Engineering College Campus, Rami Reddy Nagar,
Karakambadi Road, Mangalam (B.O), Tirupati - 517 507
Website: www.iisertirupati.ac.in

<u>Limited Tender No:</u> <u>IISERT/PUR/0605/19</u>

Indian Institute of Science Education and Research, Tirupati invites online bid (e-tender) in **single bid** (Technical + Financial) system for the following.

Item Description: Supply, Installation and Commissioning of Thermal Imaging Camera Qty 01 No.

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	14/01/2020	16:00 Hrs.
2	Bid Submission Start Date	14/01/2020	18:30 Hrs.
3	Bid Submission Close Date	29/01/2020	15:00 Hrs.
4	Opening of Bids	31/01/2020	15:30 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, Tirupati invites online bids (etender) in single bids systems for Supply, Installation and Commissioning of Thermal Imaging Camera. The Technical specifications are given in **Chapter 4:** Schedule of Specifications.

2. **Contact for information**:

Technical & Commercial contact:

Assistant Registrar (Admin & Purchase)

Indian Institute of Science Education and Research (IISER), Tirupati

Transit campus: C/o Sree Rama Engineering College Campus, Rami Reddy Nagar,

Karakambadi Road, Mangalam (B.O), Tirupati - 517 507 Email: purchase@iisertirupati.ac.in Ph.: 0877 2500208

Website: <u>www.iiserTirupati.ac.in</u>

3. Supply means: "Supply, Installation & Commissioning".

4. **Submission of Bid**:

Bid Submission Start Date: 14/01/2020 from 18:30Hrs. Bid Submission Close Date: 29/01/2020 up to 15:00Hrs. Opening of Bids: 31/01/2020 at 15:30 pm

- 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, Tirupati. 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 No. 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 DGS&D 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 Equipment's, since we are eligible for the same

Note: IISER, Tirupati 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, Tirupati.

8. Terms of the Purchase Committee

- (i) A committee duly constituted by the Director, IISER, Tirupati 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 IV
 (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, Tirupati 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, Tirupati.

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, TIRUPATI reserves the right to accept the offer in full or in parts or reject summarily or partly.
- The relatives / near relatives of employees of the client are prohibited from participation in this bid.

The near relatives for this purpose are defined as:

- (a) Members of a Hindu Undivided Family.
- (b) Their husband or wife.
- (c) The one is related to the other in the manner as father, mother, son(s), son's wife (daughter-in-law), daughter(s) & daughter's husband (son-in-law), brother(s) & brother's wife, sister(s) and sister's husband (brother-in-law).



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, TIRUPATI's plans of completing the project within the time frame.

Locations for the Supply / Services:

Supply, Installation and Commissioning of Thermal Imaging Camera covered by this document is required to be done at IISER, Tirupati.

1. Eligible Bidders:

- 1.1 IISER, TIRUPATI 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, TIRUPATI 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, TIRUPATI 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, TIRUPATI 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 email 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, TIRUPATI 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, TIRUPATI 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, TIRUPATI 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, TIRUPATI 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, TIRUPATI 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, TIRUPATI requires that the bidders who wish to bid for this project have highest standards of ethics.

- 6.1. IISER, TIRUPATI 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, TIRUPATI 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, <u>Director, IISER, TIRUPATI's interpretation of the clauses shall be final and binding on all partie</u>



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 TIRUPATI. 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. The rate of GST applicable to IISER Tirupati is 5% for the items procured for Research purpose as per Notification No. 45/2017-Central Tax (Rate) New Delhi, 14th November, 2017 and Notification No. 47/2017-Integrated Tax (Rate) New Delhi, 14th November, 2017

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 **Three years of comprehensive warranty** from the date of acceptance of the equipment by IISER, TIRUPATI. 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, octroi, local taxes 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, TIRUPATI 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 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, TIRUPATI site.

7. Payment

- 7.1. No advance payments are allowed under any circumstances.
- 7.2. Payment will be made directly to the suppliers by wire transfer for 100% of the Invoice value after receipt of the goods in our Stores, 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.
- 7.3. By Irrevocable Letter of Credit for 100% of the Invoice value. However, 90% of the Invoice value will be paid on presentation of original shipping documents to our bankers and balance 10% will be paid after receipt of material and acceptance of the goods at IISER Tirupati.

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, TIRUPATI 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. **Jurisdiction**

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

10. Force Majeure

IISER, TIRUPATI 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.

11. Arbitration

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. shall be referred by either party (IISER, TIRUPATI 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, TIRUPATI India. The jurisdiction of the courts shall be Tirupati, Andhra Pradesh, India.

Assistant Registrar (Admin & Purchase)



<u>CHAPTER 4</u> SCHEDULE OF REQUIREMENTS, SPECIFICATIONS & ALLIED TECHNICAL

Camera Features:

- 1. IR resolution: 310×220 pixels or better
- 2. Detector type: Uncooled micro bolometer
- 3. Spectral range: 7.5-12 um or more
- 4. Temperature: -10 °C to 330 °C in two calibration ranges.
- 5. Detector pitch: 26um or smaller for high resolution
- 6. Detector time constant: 12ms.
- 7. Thermal sensitivity: 55mk or smaller for better temperature sensitivity
- 8. Full frame rate: 60 Hz or faster
- 9. Accuracy: ±2°C or ±2% of reading or better
- 10. Focal length: 18mm 11. Lens option: 25°
- 12. Field of view: $25^{\circ} \times 18.8^{\circ}$
- 13. IFOV: 1.36 mrad
- 14. Minimum focus distance: 0.5 m
- 15. Focus: Automatic and manual, Software controllable
- 16. F number: 1.3
- 17. Interface: USB 2.0 and Gigabit Ethernet
- 18. Atmospheric transmission correction: Automatic, distance, atmospheric temperature and relative humidity
- 19. Optics transmission correction: Automatic, signals from internal sensors
- 20. Emissivity correction: Variable from 0.01 to 1.0
- 21. Operating temperature range: -0°C to +45°C
- 22. Storage temperature range: -10°C to +60°C
- 23. Weight: Less than 1 Kg.

<u>Software for IR camera control, and processing and post-processing of images, events:</u>

- 1. R&D software with post-processing analysis capability with emissivity correction facility
- 2. Radiometric digital detail enhancement option to understand the thermal image, while maintaining radiometric measurement accuracy.
- 3. View, record and store images at high speed
- 4. Post-processing of fast thermal events
- 5. Generate time-temperature plots from live images or recorded sequences
- 6. Advanced Start/Stop recording conditions
- 7. Unlimited number of analysis functions (Spot, Line, Area)
- 8. File organizer with Quick Collection and preview of sequences.
- 9. Zoom & Pan option for closer look.
- 10. Multiple user-configurable tabs for live images, recorded images or plot
- 11. Multiple windows, multiple analysis tools, image processing.



- 12. MATLAB direct connectivity: Data and movie files have to open from cameras directly into MATLAB for further analysis and data processing, without exporting process
- 13. Data exporting facility to different format DATA File, JPEG, AVI formats for outside analysis of software
- 14. Frame subtraction option: capability to subtract each frame from next or any frame in real time to identity small temperature difference w.r.t time.
- 15. complete portability of data along with analysis features to any computer without requiring extra license of software.
- 16. NIST traceable capability in original calibration of camera

Data acquisition system:

Suitable laptop with appropriate configuration should be provide to operate offered IR camera with R&D software.

Branded Laptop/PC with following specification (minimum) should be offered— Intel i7 processor, 16GB Ram, 1TB Hard drive, 14" monitor, USB and Ethernet ports

Special features to add:

- 1. Calibration checking facilities with black bodies in India to certify the accuracy of the data periodically. Please furnish details of blackbodies available in India.
- 2. Camera must be repairable in India since it is export license controlled.
- 3. Exclusive service center in India which makes long time use of camera easy without any prolonged down times. Please provide service center address with details of service engineers available in India.
- 4. In case the camera being offered is being rebadged, datasheet from original OEM should also be attached. The manual should be available on the website of the OEM.
- 5. Direct OEM presence in India to provide better service requirements. Please provide registration & GST details of the OEM Indian office.



CHAPTER-5 PRICE SCHEDULE ALL THE BIDDERS SHOULD QUOTE THEIR OFFER IN FOLLOWING FORMAT FOR UNIFORMITY

PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

Name of the Bidder						Ten	der No				
1	2	3	4	5	6		7		8		9
Sl No	Item Description	Country of origin	Qt y	Units	Unit Price		Total price (4x6)		Charges for Insurance & transportatio n to port/place of destination		Total Price (7+8)
					Ex-Works (named port of shipment)	FCA/FOB (named place of delivery)	Ex-Works (named port of shipment)	FCA/FOB (named place of delivery)	Ocean	Air	CIF/ CIP
1	THERMAL IMAGING CAMERA		01	No.							
Tota	Total Bid Price in in words.										
Signature of Bidder:				Naı	ne :		Business A	ddress			



Note: The Bidder may add rows as per requirement to include the prices of all Components/Parts, Warranties, Installation etc. whichever applicable.

- (a) Indian agents name & address _____
- (b) Installation, commissioning & training charges, if any_____
- (c) Cost of Spares _____
- (d) The Indian agent's commission shall paid in Indian Rupees only based on the Exchange Rate prevailing on the date of negotiation of documents.
- **(e)** The cost of optional items shall be indicated separately.



PRICE SCHEDULE FOR GOODS BEING OFFERED FROM INDIA

Name of the Bidder	Tender No
--------------------	-----------

1	2	3	4	5	6	7	8	9	10	11	12
Sl.	Item	Co	Qty	Unit	Ex-Works.	Total price	GST	Packing &	Charges	Installa	Gross
No	Description	un			Ex-	Ex-Works. Ex-	payable, if	forwarding	of	tion,	Total
		tr			Warehouse	Warehouse, Ex-show	contract is	up to station	inland	Commi	(FOR)
		У			, Ex-show	room off the shelf price	awarded	of dispatch,	transpo	ssionin	
		of			room off	(inclusive of tax already		if any	rtation,	g &	
		Or			the shelf	paid) 4x6			insuran	trainin	
		igi n			price (inclusive				ce up to Institute	g charges	
		11			of tax				mstitute	, If any.	
					already					, ii diiyi	
					paid)						
1	THERMAL		01	No.							
	IMAGING										
	CAMERA										

Total Bid Price______ in words.

Signature of Bidder:							
Name	:		Note:				
The cost of op	tional items shall be indic	ated separately.					
The bidder ma	ay add rows to include the	e prices of all components & warranties, insta	allation etc. whichever applicable				
(a)Cost of span	res	(b) Warranty if being charged include in Bo	0				



<u>CHAPTER - 6 : Checklist: Eligibility Criteria for Bidders</u>

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 TIRUPATI WILL PROCESS THE TENDER AS PER IISER TIRUPATI 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 TIRUPATI 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

