

University College of Engineering and Technology

Karni Industrial Area, Pugal Road, Bikaner-334004

INVITATION LETTER

Package Code: TEQIP-III/2019/RJ/gceb/113

Current Date: 05-Oct-2019

Package Name: Thermographic Camera

Method: Shopping Goods

To,

Sub: INVITATION LETTER FOR Thermographic Camera

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Thermo-graphic Camera	1	UCET, Bikaner	SITC Required

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. **Quotation**

- 3.1 The contract shall be for the full quantity as described above.
- 3.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
- 3.4 Applicable taxes shall be quoted separately for all items.

- 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.6 The Prices should be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than **55** days after the last date of quotation submission.
6. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which
- 6.1 are properly signed; and
- 6.2 Confirm to the terms and conditions, and specifications.
7. The Quotations would be evaluated for all items together.
8. Award of contract The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
- 8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract.
- 8.2 *The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be Incorporated in the purchase order.*
9. Payment shall be made in Indian Rupees as follows:

Payment Description	Expected Delivery Period (in Days)	Payment Percentage
Satisfactory Acceptance	30	100

10. Liquidated Damages will be applied as per the below:
- Liquidated Damages Per Day Min %: 0.01
- Liquidated Damages Max %: 10

11. All supplied items are under warranty of **36** months from the date of successful acceptance of items and AMC/Others is **NA**.
12. You are requested to provide your offer latest by **14:00** hours on **19-Oct-2019**.
13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **Training to at least three faculty members of Department of CSE**
15. Testing/Installation Clause (if any) **SITC to the satisfaction of Department of Computer Science and Engineering**
16. Performance Security shall be applicable: **5%**
17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
18. Sealed quotation to be submitted/ delivered at the address mentioned below,

University College of Engineering and Technology,

Karni Industrial Area, Pugal Road, Bikaner-334004
19. We look forward to receiving your quotation and thank you for your interest in this project.

Nodal Officer Procurement
University College of Engineering & Technology,
Bikaner

Annexure I

Infrared Image Output		
Infrared Resolution	160x120 pixels/ 320x240 pixels*	
Thermal sensitivity(NETD)	<80mk at + 30 °C	< 50 mk at + 30 °C
Field of view/min. focus distance	32 °C x 23 °C/ 0.1 m (Standard Lense)	32 °C x 23 °C/ 0.1 m (Tele: 9x7/0.5m)
Geometric resolution(IFOV)	3.3 mrad/2.1 mrad* (Standard Lense)	3.3 mrad (Tele: 1.0 mrad) 2.1 mrad* (Tele: 0.6 mrad)
Image refresh rate	33 Hz*	
Focus	Manual	
Special range	7.5 to 14	
Image Output Visual		
Image size/ min. focus distance	640x480 pixels/ 0.4m	
Image Presentation		
Image display	3.5 LCD with 320x240 pixels	
Display options	IR image only/ real image only/ IR and real image	
Video output	USB 2.0	
Colour palettes	10 (iron, rainbow, rainbow HC, cold-hot, blue-red , grey, inverted grey, sepia, testo, iron HT)	
Image presentation		
Measuring range	-30 to +100 C/ 0 to +350 C(switchable)	
Accuracy	+2 °C, +-2% of m.v. (+3 °C of m.v. at -30 to-22 °C)	
High Temperature Measurement – optional	+350 to +550 °C	
Accuracy	+- 3% of m.v. at +350 to +550 °C	
Emmissivity/ reflected temperature	0.01 to 1/ manual	

Measurement functions			
Display of surface moisture distribution (using manual input)	Yes		
Humidity measurement with radio humidity probe(automatic measurement value transfer in real time)**	Yes		
Solar mode	Yes		
Analysis function	Centre point hot/cold spot recognition	Up to 2 measurement points. Hot/cold spot recognition	Up to 2 measurement points. Hot/cold spot recognition, isotherms, area measurement (min/max on area)

*inside the EU, outside 9 Hz

**wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia

***excepting USA, China and Japan

Imager equipment	
Digital camera	Yes
Power LEDs	Yes
Standard lens	32 x 23 
Exchangeable lenses- optional	9 x 7 
Laser(laser classification 635nm, class 2)***	Yes
Voice recording	Wired headset
Video streaming(via USB)	Yes
Image storage	
File format	.bmt, export option in .bmp, .jpg, .png, .csv, .xls
Storage device	SD card 2 GB(approx. 2.000 images)
Power Supply	
Battery type	Fast- charging, Li-ion battery can be changed on-site
Operating Time	4 hours
Charging options	In instrument/ in charging station(optional)
Mains operation	yes

Ambient conditions	
Operating temperature range	-15 to +50  C

Storage temperature range	-30 to +60 °C
Air humidity	20 to 80 % RH non-condensing
Housing protection class (IEC 60529)	IP54
Vibration(IEC 60068-2-6)	2G
Physical specifications	
Weight	Approx. 900g
Dimensions (Lx W x H) in mm	152 x 108 x 262
Tripod mounting	M6
Housing	ABS

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To: _____

Sl. No.	Description of goods \ (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex-Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No. _____