



# Government College of Engineering

Station Road, Osmanpura, Aurangabad – 431 005

"In Pursuit of Global Competitiveness"

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## INVITATION LETTER

Package Code: TEQIP-III/2019/MH/geau/83

Current Date: 09-Aug-2019

Package Name: Geca\_Mech\_4 Rev

Method: Shopping Goods

To,

Geca Website/ Notice Boarded

Sub: INVITATION LETTER FOR Geca\_Mech\_4 Rev

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	Thermal Image Hand Held Camera	1	Government College of Engg., Aurangabad	YES

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 **55days** 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 Delivery & Installation	15	90
Satisfactory Acceptance	15	10

10. Liquidated Damages will be applied as per the below:

Liquidated Damages Per Day Min %:N/A

Liquidated Damages Max %:N/A

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 **05:30 hours on 23-Aug-2019**.

13. Detailed specifications of the items are at Annexure I.

14. Training Clause (if any) **2 Days Training Required for Student, Faculty and staff**

15. Testing/Installation Clause (if any) **As per Satisfaction of concern expert faculty**

16. Performance Security shall be applicable: **10% of basic cost of equipment**

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, **Government College of Engineering, Aurangabad, Station Road, Osmanpura, Aurangabad, 431005, Subscribe as Quotation for TEQIP Cell, Inv. No. Geca\_Mech\_4 Rev Due Dt. 23.08.2019**

19. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)  
Name & Designation

**Annexure I**

Sr. No	Item Name	Specifications
1	Thermal Image Hand Held Camera	<p align="center"><u>Specification of THERMAL CAMERA</u></p> <ol style="list-style-type: none"> <li>1. IR resolution around 384 × 288 pixels</li> <li>2. higher resolution facility must be provided</li> <li>3. Thermal sensitivity/NETD not less than 40 mK, 24°C @ +30°C (+86°F),</li> <li>4. Field of view (FOV) -24° C × 18°C,</li> <li>5. Focus distance range : up to 0.15 m (0.49 ft.),</li> <li>6. Spatial resolution (IFOV) – 0.90 m rad/pixel,</li> <li>7. Lens identification - Automatic</li> <li>8. Image frequency range – up to 30 Hz</li> <li>9. Focus–Continuous, one shot &amp; manual</li> <li>10. Digital zoom – 1-4x continuous</li> <li>11. Detector type -Focal plane array (FPA), uncooled microbolometer</li> <li>12. Spectral range between 7.5–14 μm</li> <li>13. Display –Touch screen around 4.0 in and LCD around 640 × 480 pixels</li> <li>14. Auto –Orientation</li> <li>15. Programmable buttons</li> <li>16. Image adjustment –Automatic and manual</li> <li>17. Image modes - IR image, visual image, MSX, picture in picture, thumbnail gallery</li> <li>18. Multi Spectral Dynamic Imaging (MSX) system required</li> <li>19. Picture in Picture –Resizable &amp; movable IR area on visual image</li> <li>20. Object temperature range - -20°C to 1200°C (572–2192°F)</li> <li>21. Accuracy - ±2% of reading</li> <li>22. Spotmeter must be provided</li> <li>23. Automatic hot/cold spot detection facility required</li> <li>24. Color alarm (isotherm) facility must be provided</li> <li>25. Temperature difference measurement function required</li> <li>26. Selection of reference temperature can be done Manually or captured from any measurement function</li> <li>27. Emissivity correction with material list must be provided</li> </ol>

28. Automatic external optics/windows correction based on inputs of optics/window transmission and temperature must be available
29. Screening range between 0.2°C to 0.5°C accuracy  
@37°C (98.6°F) with reference
30. Measurement corrections facility required
31. Color palettes - Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
32. Image storage facility must be provided
33. Remote control operation facility must be provided
34. Voice Annotation ( 60 second approx)
35. Text Annotation - Text from predefined list or soft keyboard on touch screen
36. Visual image annotation facility required
37. Facility of Sketch from touch screen should be available
38. Compass facility required
39. Laser distance meter information facility required
40. Area measurement information facility required
41. Inbuilt GPS unit must be interface with camera
42. Measurement reading should be interlink
43. Software should be provided for the report/graph generation
44. Radiometric infrared-video recording - RTRR (.csq) facility must be provided
45. Non-radiometric IR video recording to memory card facility must be provided
46. Inbuilt advanced memory card /SD card system
47. Provided with facility of visual video recording to memory card
48. Radiometric IR video streaming over UVC or RTSP (Wi-Fi)
49. Non-radiometric IR video streaming - (AVC) over RTSP (Wi-Fi), MPEG4 over RTSP (Wi-Fi), MJPEG over UVC and RTSP (Wi-Fi)
50. Visual video streaming required
51. Built-in digital camera with minimum 5 MP with LED light
52. Laser - Activated by dedicated button
53. Wi-Fi - Peer-to-peer (ad hoc) or infrastructure (network)
54. Interfaces - USB 2.0, Bluetooth, Wi-Fi, DisplayPort
55. Video out –Display Port
56. Battery type - Rechargeable

		<p>57. Battery operating time – range from 2 hours to 2.5 hours at 25°C (68°F) and typical use</p> <p>58. Inbuilt charging system of battery is required</p> <p>59. Maximum Charging time between 2 to 2.5 hours to 90% capacity, charging status indicated by LED's</p> <p>60. Power management - Automatic shutdown and sleep mode (user selectable)</p> <p>61. AC operation - AC adapter, 90–260 VAC input, 50/60 Hz</p> <p>62. Operating temperature range - -15°C to +50°C (+5°F to +122°F)</p> <p>63. Storage temperature range - -40°C to +70°C (-40°F to +158°F)</p> <p>64. Humidity (operating and storage) - EC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles</p> <p>65. File format jpg</p> <p>66. Swappable Li-Io Battery</p> <p>67. Spot Measurement mode</p> <p>68. Simultaneous storage of IR/Visual/MSX images</p> <p>69. The setup should include power supply/ charger with four plugs, rechargeable battery,</p> <p>70. All necessary software, USB cable and accessories "</p> <p>71. Warranty (Camera) – 3 Years</p> <p>72. Warranty (Detector) – 10 Years</p>
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**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)
<b>Total Cost</b>							

Gross Total Cost (A+B): Rs. \_\_\_\_\_ (Amount in figures)

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. \_\_\_\_\_ (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. \_\_\_\_\_