



कृषि अभियंत्रिकी संभाग
Division Of Agricultural Engineering
भा. कृ. अ. प -भारतीय कृषि अनुसंधान संस्थान
ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE
नई दिल्ली-110012
NEW DELHI-110012



F.No.Project(24-735)/2020-21/AE/

Dated:21-09-2020

Subject: Quotation for Camera, Raspberry pi, LCD for Raspberry pi, LIDAR Sensor, Gimble for lidar sensor— IARI

The quotation should reach this office by not later than **13:00** hours on **12-10-2020**. The cover containing quotation should be superscribed as “Quotations for **Camera, Raspberry pi, LCD for Raspberry pi, LIDAR Sensor, Gimble for lidar sensor**”.In the Office/Unit Division of **Agricultural Engineering Division ICAR-IARI, New Delhi** due on **12-10-2020** failing which the quotation will have the risk of not being considered.

Instructions to the bidder and terms & conditions of tender:

1. The rates quoted shall be valid for a minimum period of 180 days from the last date fixed for the receipt of quotations.
2. The rates quoted shall be for free delivery and installation at the Agril.Engg, Division/Unit ICAR-IARI, New Delhi – 110 012. However, item/equipment quoted in foreign currency must be quoted on FOB basis and showing price upto CIF.
3. Custom Duty Exemption Certificate (CDEC) will be issued only when the bid is quoted in foreign currency in case of foreign made items only and meant for IARI.
4. In case the bid is offered in Indian Rupees on FOR value basis than CDEC/DSIR certificate will not be given by the Institute at all. However, DST as applicable will be paid by the Institute as per rule.
5. Full specifications of the article quoted for may be given in the quotation along with literature/pamphlet/drawing etc. User list of the quoted document may also be additionally provided for reference.
6. If taxes, duties or any other charges over and above the rates quoted leviable, actual percentage of such taxes/duties/other charges should be clearly indicated.
7. If the bid is submitted by the authorized dealer on behalf of the Manufacturer/OEM, then valid authorization certificate of the Manufacturer/OEM must be attached with the bid, otherwise bid will not be considered.
8. As per CVC's guidelines No.12-02-6CTE-SPJ(1)-2/161730 (circular No.3/1/12) dated 13/1/2012, in a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. Further, if an agent submits bid on behalf of the Principal/OEM the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
9. Supply is to be made by any convenient mode of transport at supplier's risk unless otherwise specified.
10. In case the material is supplied through an authorized agent, manufacturer shall be responsible for the successful installation of the equipment. The manufacturer shall be

liable to any penal action for the shortcomings of the authorized agent. Any payment that is to be made separately to the agent if any shall be clearly mentioned in the quotation.

11. The bid should be accompanied with earnest money of **Rs. 4500/- (Rs. Four Thousand five hundred Only)** in the form of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favour of Director, IARI payable at New Delhi as mentioned against each of the item/equipment together with the technical bid, in the absence of which the price bid, if any, will not be opened under any circumstances.
12. No interest on security deposit and earnest money deposit shall be paid by the Institute to tenderer.
- 13. One year warranty has to be invariable provided by the firm. In case, there is any variation in the warranty period given in the specification of the item/equipment, the warranty period shall be the final as given in the specification.**
14. Payment will be made by mode of e-payment to the supplier/firm after satisfactory completion of work and receipt of pre-receipt bills triplicate. In case of foreign currency payment shall generally be made through LC directly to the manufacturer.
15. The Director ICAR-IARI, New Delhi reserves the right to accept or reject any or all the quotations either in full or in parts without assigning any reason.
16. Quotations not complying with the above conditions are liable to be rejected.
- 17. Sealed quotations should be put in the "quotation Box" of the Agricultural Engineering Office ICAR-IARI, Pusa Campus, New Delhi-110012**
- 18. PAN/GST. Nos(copy) may be given on the Quotation.**
19. AMC/CMC charges shall not be included for the evaluation of the financial/commercial bids.
20. In case, any dispute arising out of this contract shall be subject to the jurisdiction of Indian laws & Court at New Delhi. Sole arbitrator is appointed by the Secretary, ICAR, New Delhi. His decision will be final and binding on both parties (Supplier and Purchaser)
21. The successful bidder has to execute the indented material/items as mentioned in the supply order placed with them within the stipulated period as given in the supply order placed by the Unit/Divisions of this Institute failing which 2% per week and maximum of 10% deduction as liquidated damage charges will be made from the bill in case the material is not supplied within the given stipulated period.

The following documents must be furnished with the technical bid failing which tender will not be accepted at all.

- 1. GST/ PAN Card Copy**
- 2. Compliance report**
- 3. The tender documents duly signed by the concerned firm accepting the same should be attached with technical bid.**

Sl. No. Description/ Specification of the Item**Qty. Req.(Approx.)***“Camera, Raspberry pi, LCD for Raspberry pi, LIDAR Sensor, Gimble for lidar sensor”***Specification:-**

1	2	3	4	5	6
क्र.स.	क्रयभंडार वस्तुविवरण	विशिष्टताए	वांछितमात्रा	दर (Rs.)	मुल्य(Rs.)
1	Camera	Camera Module for image processing Specifications:Input supply voltage (VDC): 3.6V and 5V, A 12-bit ADC and a 12-bit DAC, Three I/O pins for servo control, Interrupts and PWM on all I/O pins RAM Layout: 256KB.DATA/.BSS/Heap/Stack, 512KB Frame Buffer/Stack, 256 KB DMA Buffers (1MB Total) Lens Info: Focal Length: 2.8mm,Aperture: F2.0,Format: 1/3", full-speed USB (12Mbs) interface to computer. A μ SD Card socket capable of 100Mbs reads/writes, I2C Bus, CAN Bus, and an Asynchronous Serial Bus (TX/RX) for interfacing with other microcontrollers and sensors.	5		
2	Raspberry pi	Raspberry Pi 4 Model-B with 2 GB RAM,Processor quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz, RAM Memory 2GB LPDDR4 SDRAM, Connectivity, 2 \times USB 3.0 Ports, wireless LAN, Operating Power 5V 3A DC via GPIO Header, Video and Sound, Clock Speed 1.5 GHz,	6		
3	LCD for Raspberry pi	LCD size: 7 inch Compatible to Raspberry pi with HDMI connectors	5		
4	LIDAR Sensor	Distance Range (Radius): 0.15m to 6m, white objects (Diameter Range – 12m), Angular Range: 0 - 360°, Distance Resolution: < 0.5mm, Angular Resolution: $\leq 1^\circ$, Sample Duration: 0.5ms, Sample Frequency: 2000 – 2010Hz, Scan Rate: 1 ~ 10Hz, Typical 5.5Hz	2		
5	Gimble for lidar sensor	3-AXIS support with battery 6S Li (11V-26V), Attitude control accuracy: ± 0.02 degrees, Rotation direction (PAN): $\pm 200^\circ / s$, Tilt direction (TILT): $\pm 200^\circ / s$, Rolling direction (ROLL): $\pm 200^\circ / s$, Rotation direction (PAN): $\pm 330^\circ$, Tilt direction (TILT): -135° to $+45^\circ$, Rolling direction (ROLL): $\pm 48^\circ$, S-Bus / PPM / DSM receiver support, Working environment temperature: $-20^\circ C \sim +50^\circ C$, Compatibility: windows 8/10	2		

Asstt.Admn. Officer (AE)

Compliance Report

Date:

M/s.....agree to supply the items

1	2	3	4
क्र.स.	वस्तुविवरण	विशिष्टताए	Yes/No
1	Camera	Camera Module for image processing Specifications:Input supply voltage (VDC): 3.6V and 5V, A 12-bit ADC and a 12-bit DAC, Three I/O pins for servo control, Interrupts and PWM on all I/O pins RAM Layout: 256KB.DATA/.BSS/Heap/Stack, 512KB Frame Buffer/Stack, 256 KB DMA Buffers (1MB Total) Lens Info: Focal Length: 2.8mm,Aperture: F2.0,Format: 1/3", full-speed USB (12Mbs) interface to computer. A μ SD Card socket capable of 100Mbs reads/writes, I2C Bus, CAN Bus, and an Asynchronous Serial Bus (TX/RX) for interfacing with other microcontrollers and sensors.	
2	Raspberry pi	Raspberry Pi 4 Model-B with 2 GB RAM,Processor quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz, RAM Memory 2GB LPDDR4 SDRAM, Connectivity, 2 \times USB 3.0 Ports, wireless LAN, Operating Power 5V 3A DC via GPIO Header, Video and Sound, Clock Speed 1.5 GHz,	
3	LCD for Raspberry pi	LCD size: 7 inch Compatible to Raspberry pi with HDMI connectors	
4	LIDAR Sensor	Distance Range (Radius): 0.15m to 6m, white objects (Diameter Range – 12m), Angular Range: 0 - 360°, Distance Resolution: < 0.5mm, Angular Resolution: \leq 1 °, Sample Duration: 0.5ms, Sample Frequency: 2000 – 2010Hz, Scan Rate: 1 ~ 10Hz, Typical 5.5Hz	
5	Gimble for lidar sensor	3-AXIS support with battery 6S Li (11V-26V), Attitude control accuracy: \pm 0.02 degrees, Rotation direction (PAN): \pm 200 ° / s, Tilt direction (TILT): \pm 200 ° / s, Rolling direction (ROLL): \pm 200 ° / s, Rotation direction (PAN): \pm 330 °, Tilt direction (TILT): -135 ° to + 45 °, Rolling direction (ROLL): \pm 48 °, S-Bus / PPM / DSM receiver support, Working environment temperature: -20 °C ~ +50 °C, Compatibility: windows 8/10	

Signature with Seal