



कृषि अभियांत्रिकी संभाग
Division of Agricultural Engineering
भा. कृ. अनु. प. भारतीय कृषि अनुसंधान संस्थान
ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE
पूसा नई दिल्ली 110012 PUSA, NEW DELHI-110012



मिसिल संख्या File No.2020-21/AE/24-735/

दिनांक Dated: 27-11-2020

निविदा-सूचना

निदेशक भा. कृ. अनु. प.-भारतीय कृषि अनुसंधान संस्थान नई दिल्ली द्वारा निम्नलिखित वैज्ञानिक उपकरण / वस्तु की आपूर्ति एवं कार्य हेतु प्रतिष्ठित निर्माताओं/ अधिकृत डीलरों / आपूर्तिकर्ताओं से **दो बोली प्रणाली/ (तकनीकी एवं वित्त बोली)** के अन्तर्गत आनलाईन कोटेशन **Camera, Paspberry pi, LCD for Raspberry pi, LIDAR Sensor, Gimble for lidar sensor** के लिये आमंत्रित की जाती है। Online Quotations are invited from reputed Manufacture/Dealer/Supplier in **Two Bid** system (Technical bid & Financial bid) for **Camera, Paspberry pi, LCD for Raspberry pi, LIDAR Sensor, Gimble for lidar sensor** of following Scientific Equipment/Items on behalf of Director ICAR-Indian Agricultural Research Institute, New Delhi. Details of **Camera, Paspberry pi, LCD for Raspberry pi, LIDAR Sensor, Gimble for lidar sensor** are given in the **compliance report**.

Schedule of tender

Name of Organisation संस्थान का नाम	Indian Agricultural Research Institute भा. कृ. अनु. प.-भारतीय कृषि अनुसंधान संस्थान नई दिल्ली
Tender Type निविदा प्रकार (Open/Limited/EOI/Auction/Single/Global)	Open
Tender Category निविदा श्रेणी (Services/Goods/works)	Goods
Type/Form of Contract कार्य विवरण (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)	Buy
Product Category वस्तु/ कार्य का प्रकार (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Others
Source of Fund (Institute/Project)	Project Code: 24-735
Is Multi Currency Allowed	No
Date of Issue/Publishing प्रकाशन तिथि	27/11/2020/(16:00 Hrs)
Document Download/Sale Start Date डाउनलोड खुलने की तिथि	27/11/2020/(16:05 Hrs)
Document Download/Sale End Date डाउनलोड बंद की तिथि	21/12/2020/(14:00 Hrs)
Last Date and Time for Uploading of Bids	21/12/2020/(14:00 Hrs)

अपलोड के लिए अन्तिम तिथि	
Date and Time of Opening of Technical Bids निविदा खुलने की तिथि	22/12/2020/(15:00 Hrs)
EMD for item ई एम डीकी राशि	Rs. 4500/- (Four thousand only)
Bid Validity days (180/120/90/60/30) बोली की वैधता सीमा	180 Days (From last date of opening of tender)
Address for Communication पता	Division of Agricultural Engineering ICAR-IARI New Delhi Pusa Campus, New Delhi-110012, Delhi, India
Contact No. संपर्क सूत्र	011-25842294
Email Address ईमेल पता	dd3.iari@iari.res.in, sddkushwaha@gmail.com

विस्तृत नियम व शर्तों को भा. कृ. अनु. सं. की वेबसाइट www.iari.res.in पर देखें एवं आनलाईन के लिए www.eprocure.gov.in देखा जा सकता है। **Please visit www.iari.res.in for Details Rules and Regulation and Log on www.eprocure.gov.in for online.**

बोली लगाने के निर्देश और नियम एवं निविदा की शर्तें Instruction to the bidder and terms & conditions of tender:

- कोटेशन में दर्शायी गई दरों में भा. कृ. अनु. सं. नई दिल्ली के संभाग कृषि अभियांत्रिकी संभाग / भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली-110012 में सामान सामग्री की निः शुल्क आपूर्ति अथवा स्थापन शामिल होगा। हालाँकि विदेशी मुद्रा में दर्शाए गए उपकरण को एफ ओ बी आधार पर दर्शाया जाये। **The rates quoted shall be free of cost delivery and installation** at the Division of Agricultural Engineering, IARI, New Delhi-110012. However, equipment quoted in foreign currency must be quoted on FOB.
- Our Institute is exempted from Custom Duty. Hence Custom Duty Exemption Certificate (CDEC) will be provided to the firm, if demanded.
- उपरोक्त दिए गए दर में यदि किसी भी प्रकार का अतिरिक्त कर / टैक्स/ड्यूटी लगाया जाना है तो उसका संकेत स्पष्ट रूप से दिया जाना चाहिए। 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.
- बोली के साथ बतौर बयाना काराशि डिमांड माँग ड्राफ्ट/भुगतान आदेश/मियादी जमा रसीद/बैंक गारंटी को निदेशक, भा. कृ. अनु. सं. नई दिल्ली 110012 के नाम किसी भी राष्ट्रीय कृत बैंक में देय हो, अवश्य संलग्न होना चाहिए। जिसके बिना, कोटेशन पर विचार नहीं किया जायेगा। बयाना शि की मूल प्रति सीधे तौर पर संबंधित निविदा आमंत्रित अधिकारी को आखिरी तारीख तक या फ्लाईन दर जमा करने से पहले पहुँचानी चाहिए। डिमांड माँग ड्राफ्ट/भुगतान आदेश/मियादी जमा रसीद/बैंक गारंटी से संबंधित सभी जानकारी व्यक्तिगत रूप से भेजी जानी चाहिए, इस संबंध में प्राप्त स्कैन कॉपी/या जो डाटा आपूर्तिकता द्वारा दर जमा करने के दौरान दिया गया है उससे मिलान किया जाएगा अन्यथा इस क्यूटेपन कारद्दमाना जाएगा। EMD should be 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. The original EMD should be submitted to the Tender Inviting Authority on or before the last date and time of online bid submission. The details of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee physically sent, should tally with the details available in the scan copy and the data entered during the bid submission time otherwise the uploaded bid will be rejected.

5. इस संस्थान द्वारा निविदाकर्ता को किसी भी सुरक्षा जमा राशि और बयाना राशि पर ब्याज नहीं दिया जाएगा। No interest on security deposit and earnest money deposit shall be paid by the Institute to tenderer.
6. कोटेशन प्रक्रिया पूरी होने के पश्चात असफल बोलीदाताओं को उनकी जमा की गयी बयाने की रशि वापस कर दी, जायेगी जबकि सफलतम बोलीदाता के मामले में यह रशि नियम के अनुसार सुरक्षा जमा के रूप में समायोजित की जा सकती है, जो कि आडर के रशि की 5-10 % होगी और यह डिमांड माँग ड्राफ्ट / भुक्तान आदेश / मियादी जामा रसीद / बैंक गारंटी निदेशक , भा. कृ. अ. स.नई दिल्ली 110012 के नाम किसी भी राष्ट्रीय बैंक में देय हो, जिसकी वैधता सभी कार्य को पूरा करने के दिनों 60, साथ के साथ उपकरण / सामान / जिसकी कीमत रु. 1.00 लाख या इससे अधिक की गारंटी होगी। हालांकि जो उपकरण रु 1.00 लाख या एक लाख से कम है उस परिस्थिति में किसी भी प्रकार का निष्पादन जमा राशि नहीं दी जाएगी। The EMD shall be refunded to the unsuccessful bidders after finalization of the quotation. In case of successful bidder, it can be adjusted towards security deposit which is 5-10% of the order value 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 and shall remain valid for 60 days beyond the date of completion of all contractual obligation of supplier including warranty obligation for the equipment/goods costing Rs. 1.00 lakhs (Rs. One Lakh) or more. Here would however, be no performance security deposit for equipment/goods costing less than Rs. 1.00 lakh (One lakh).
7. फर्म द्वारा एक वर्ष की वारंटी प्रदान की जाएगी। यदि सामान / उपकरण के विवरण में वारंटी की अवधि में किसी भी प्रकार परिवर्तन है तो उस वारंटी को अंतिम माना जायेगा। **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.
8. कार्य के पूरा होने के बाद फर्म / पूर्तिकता को तीन पूर्व रसीद बिल प्राप्त होने के बाद भुगतान e-payment के माध्यम से किया जाएगा। Payment will be made by mode of e-payment to the supplier/firm after satisfactory completion of work and receipt of pre-receipt bill triplicate.
9. निदेशक भारतीय कृषि अनुसंधान संस्थान नई दिल्ली 110012 के पास बिना कारण बताये सभी कोटेशनो को पूर्ण या आंशिक रूप से स्वीकार या अस्वीकार करने के अधिकार रहेगा। The Director 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.
10. उपरोक्त शर्तों का पालन न करने वाली क्यूटेपनों को अस्वीकार कर दिए जा सकते है। Quotations not complying with the above conditions are liable to be rejected.
11. TIN/VAT/PAN/C.S.T./GST Nos. के स्कैन कापी को कोटेशन के साथ में संलग्न किया जाए। Scanned copy of TIN/VAT/PAN/C.S.T./GST Nos may be attached with the bid.
12. किसी कारण अनुबंध में कोई विवाद उत्पन्न होने पर भारतीय कानून और न्यायालय नई दिल्ली की अधिकारिता के अधीन होगा। सचिव भारतीय कृषि अनुसंधान परिषद द्वारा एकमात्र मध्यस्थ नियुक्त किया गया है जिसका निर्णय दोनों पार्टियों (Supplier and Purchaser) पर अंतिम माना जाएगा। 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).
13. सफल बोलीदाता को सौंपे गए कार्य को निर्धारित आपूर्ति आदेश के भीतर कार्य करना होगा जैसा आपूर्ति आदेश में दर्शाया गया होगा यदि ऐसा नहीं किया जाता तो कम से कम 2 % तथा अधिकतम 10 % की क्षति नष्ट कटौती के रूप में उनके बिल से काटी जाएगी। The successful bidder has to execute the indented Job/Work as mentioned in the supply order place with them within the stipulated period as given in the supply order placed by this office failing with 2% per week and maximum of 10%

- deduction as liquidated damage charges will be made from the bill in case the job is not completed within the given stipulated period
14. Full specification of the article quoted for sale be given in the quotation. Also provide the literature/pamphlet/drawing etc (if possible). User list of the quoted document may also be additionally provided for reference.
 15. In Case, LC is open for purchase of Foreign equipment all charges outside India will be borne by the firm.
 16. As per CVC's guidelines No.12-2-6CTE-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 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.
 17. The equipment is to purchase for Research purpose and therefore shall be purchased at **concessional GST Rate of 5%**. The required certificate shall be issued to the successful bidder for availing concessional GST Rate.
 18. **Rates should be quoted as per BOQ 1 on-line.**
 19. **Document to be uploaded should be signed by company/firm seal in all pages by the firm**

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

1. GST Number (scan copy)
2. Pan Card Number (scan copy)
3. Earned Money Deposit (EMD) /NSIC/MSME Number (scan copy)
4. Compliance Report in accordance with the tender technical specification.(Annexure I)
5. Detail Technical specification of equipment/item (literature/pamphlet/drawing etc).
6. The tender documents duly signed by the concerned firm accepting the same should be attached with technical bid.
7. Certificate declaring that the firm has not been debarred/Black listed by the Govt. Deptt./Court of law for doing any business in India.(Annexure II)
8. Firm Details Document(Annexure III)
9. Check List(Annexure IV)

Required Specification of Camera, Paspberry pi, LCD for Raspberry pi, LIDAR Sensor, Gimble for lidar sensor has been given in compliance report.

सहायक प्रशासनिक अधिकारी
Asstt. Admn. Officer

Compliance Report

M/s.....agree to supply the items of following specifications

Technical Specification of Item वस्तु का तकनीकी विवरण

Details of item वस्तु का नाम व विवरण	Write Yes/No लिखे (हाँ/न)	If yes, write technical details यदि हाँ तो विवरण दे	literature/pamphlet attached (yes/no)
Camera Module for image processing- (5 No.)			
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 µSD 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.			
Raspberry pi - (6 No.)			
Raspberry Pi 4 Model-B			
RAM: 2 GB			
Processor quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz			
RAM Memory 2GB			
LPDDR4 SDRAM			
Connectivity, 2 × USB 3.0 Ports,			
wireless LAN			
Operating Power 5V 3A DC via GPIO Header			
Video and Sound			
Clock Speed: 1.5 GHz			

LCD for Raspberry pi – (5 no.)			
LCD size: 7 inch Compatible to Raspbery pi			
Connectors: HDMI			
LIDAR Sensor – (2 no.)			
Distance Range (Radius): 0.15m to 6m			
white objects (Diameter Range – 12m)			
Angular Range: 0 - 360°			
Distance Resolution: < 0.5mm			
Angular Resolution: <= 1 °			
Sample Duration: 0.5ms			
Sample Frequency: 2000 – 2010Hz			
Scan Rate: 1 ~ 10Hz, Typical 5.5Hz			
Gimble for lidar sensor – (2 no.)			
3-AXIS support with battery 6S Li (11V-26V)			
Attitude control accuracy: ± 0.02 degrees			
Rotation direction (PAN): ± 200 ° / s			
Tilt direction (TILT): ± 200 ° / s			
Rolling direction (ROLL): ± 200 ° / s			
Rotation direction (PAN): ± 330 °			
Tilt direction (TILT): -135 ° to + 45 °			
Rolling direction (ROLL): ± 48 °			
S-Bus / PPM / DSM receiver support			
Working environment temperature: -20 °C ~ +50 °C,			
Compatibility: windows 8/10			

Signature with Seal

(To be furnished on company letter head)

Declaration

This is to confirm that our firm
.....
... has never been blacklisted/debarred by any state Govt./Central Govt./ Department of
Public undertaking enterprises.

Date:
Place:

Stamp & Signature

Name of the Authorized Signatory

फर्म का विवरण Firm Details

(To be furnished on company letter head)

Name of the Firm-----

Registered/Postal Address-----

1.	Permanent Account Number (PAN)	
2.	GST, Registration No., if applicable	
3.	Bank Details	
4.	Bank Name	
5.	Branch Address	
6.	Account Number	
7.	Type of account (current/saving)	
8.	MICR No.	
9.	RTGS/NEFT code	

Date:

Place:

Stamp & Signature

Name of the Authorized Signatory

Check List जांच सूची

Other Condition		
SN	Particular	Write (Yes/No)
1.	GST Number (scan copy)	
2.	Pan Card Number (scan copy)	
3.	Earnet Money Deposit (EMD) /NSIC/MSMENumber (scan copy) (EMD should be in the from of D.D/Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favour of Director, IARI, payable at New Delhi.)	
4.	Compliance Report in accordance with the tender technical specification.(Annexure I)	
5.	Detail Technical specification of equipment/item (literature/pamphlet/drawing etc).	
6.	The tender documents duly signed by the concerned firm accepting the same should be attached with technical bid.	
7.	Certificate declaring that the firm has not been debarred/Black listed by the Govt. Deptt./Court of law for doing any business in India. (Annexure II)	
8.	Firm Details Document (Annexure III)	
9.	Check List (Annexure IV)	

Signature with Seal

Name of authorized signatory