



NIELIT CALICUT

(Autonomous Scientific Society of Ministry of Electronics & Information Technology, Govt. of India)

NIT Campus Post, CALICUT-673 601, KERALA

Email: purchase@calicut.nielit.in Web: <http://nielit.gov.in/calicut>

Phone : 0495-2287266 Fax : 0495-2287168

By Speed Post

LIMITED TENDER ENQUIRY

Ref. No. 2(1124)/2019-20/RSM/ROBOCELL/EQPT

Date: 06.01.2020

DUE DATE: 27.01.2020

1. Quotations are invited for the supply of the items as per Annexure.
2. The quotations duly **SIGNED, SEALED AND SUPERSCRIBED ON THE ENVELOPE WITH THE REFERENCE No. AND DUE DATE**, should be addressed to the undersigned so as to reach on or before the due date stipulated above. Quotations received after the due date will not be considered.
3. The quotations should be valid for acceptance for a period of **sixty days** from the due date
4. Quotations will not be accepted by Fax, Email or any such electronic data transfer form.
5. The quotations should be for goods exactly conforming to our requirements and specifications.
6. If the item is under DGS&D Rate contract, the number and the price applicable must be mentioned. It may also please be indicated whether the supply can be made direct to us at the DGS&D Rate Contract Price.
7. Relevant literature pertaining to the items quoted with full specifications and drawings, if any should be sent along with the quotations, wherever applicable. Samples, if called for, should be submitted free of charges and collected back at the supplier's expenses.
8. Copy of Manufacturing licence, Principal or Authorized Distributor/Dealer Certificate, and Proprietary Certificate, as applicable, should be enclosed.
9. Quotations should be for **free delivery** at our Centre and should clearly specify the **delivery period**. If delivery quoted is Ex-Godown/Consignor Station, delivery charges consisting of freight, packing & forwarding charges, insurance, etc. should be indicated separately. Goods should be supplied duly carriage paid and insured.
10. GST Registration Number of NIELIT Calicut is: **32AAATD0315M1Z6**. GST or any other taxes may be charged as per the rates applicable to Scientific/Educational institutions.
11. Security Deposit @ 5% of the Purchase Order/Invoice value shall be retained, in case order/contract value exceeds Rs.1 lakh, which will be released after the expiry of warranty period.
12. Goods shall not be supplied without an official purchase order.
13. Payment : Payment will be made after completion of supply, installation/assembly and commissioning of the items covered by the order along with necessary spares supplied to the entire satisfaction of NIELIT CALICUT. Payment against invoices shall normally be made within 30 days of receipt and acceptance of equipment/materials at our office. **No advance payment will be made under any circumstance.**
14. Incomplete quotations and quotations which do not comply with all the above instructions are liable to be summarily rejected.
15. NIELIT CALICUT does not bind itself to accept the lowest or any such quotation and has the right to accept or reject whole or any part of tenders or a portion of the supply of goods without assigning any reasons. No correspondence in case of rejected tenders will be entertained.
16. Earnest Money Deposit (E.M.D.) for Rs. **60,000/-** be deposited by NEFT in the Bank Account No. 10401158037 (IFSC: SBIN0002207) at State Bank of India, NIT Calicut Branch, CREC Campus, Chathamangalam, Calicut – 673 601, in favour of Director, NIELIT CALICUT, failing which the quotation will be rejected. Proof of Deposit of EMD amount should be submitted with the Quotation.

Yours faithfully,

Purchase In-Charge
For Executive Director

Encl: **Annexure**

ANNEXURE TO ENQUIRY

Your Quotation No.

Date:

1	Name of item(s)	Robotics Training Cell (Qty-1No.)
2	Specifications & Quantity As per separate sheet attached.	
3	Price per unit in Rs. (in figures & words)	Attach separate list, if required.
4	Total Price in Rupees (in figures & words)	
5	Delivery Period	
6	Terms of Delivery	
7	Taxes, Duties, Octroi & any other statutory levies or charges	
8	Transportation, Insurance, Packing & Forwarding etc.	
9	Discount/off etc., if any	
10	GST Registration No.	
11	Payment Terms	
12	Validity of Tender	
13	Warranty	
14	Any other remarks / EMD Amount and Payment details	
15	Signature of the Tenderer with Name and Date	
16	Address with Email ID & Mobile No.	
17	Central Public Procurement Portal (www.eprocure.gov.in) Registration, Email login ID	

- NB:** (1) The prices quoted and Taxes charged should be Academic/Educational Prices/rates, wherever applicable.
- (2) Enquiry for the above items and specifications can also be downloaded from our website <http://nielit.gov.in/calicut> or www.eprocure.gov.in
- (3) Please register at www.eprocure.gov.in and intimate login details without fail. Watch website for regular updates.

Robotic Training Cell – Educational Purpose		Complied (Yes/No with details)
1.	Robot - Qty: 1 No Specifications:	
	a) Pay load: 3-5 kg or better	
	b) Max Reach : 500mm to 900mm or better	
	c) No of axes : 6	
	d) Position repeatability: ± 0.02 mm or better	
	e) Acceleration time 0-1m/s : 0.06 sec or better	
	f) Mounting position: Floor, ceiling, wall or any angle	
	g) Motion range A1: rotation 340° or better A2:arm: 120° or better A3:arm: 250° or better A4:wrist: 350° or better A5:bend: 240° or better A6: turn:350° or better	
	h) Protection rating: IP40 or better	
	i) Operating temperature: 5 to 45°C	
	j) Noise level: <70dB	
2.	Controller - Qty: 1 No Specifications:	
	a) Processor: Multi-core technology	
	b) Hard drive: SSD	
	c) Interface: USB3.0, GbE, DVI-I, Display port	
	d) Number of axes (max.): 6+2 (with additional axis box)	
	e) Safety: Safety field buses, Tool position, speed and orientation supervision, Axis position and speed supervision, Standstill supervision	
	f) Supply voltage: AC Single phase 220/230 V, 50-60 Hz	
	g) Degree of protection: IP20	
	h) External connectors for all signals with expandable to 16in/16out I/O system	
	i) Ambient temperature; 0-45°C	
3.	Teach pendant - Qty: 1 No Specifications:	
	a) Display size : 8.4" or better	
	b) Display: Scratch-resistant industrial touch color display	
	c) 6D mouse: Intuitive, Cartesian movement and reorientation of the robot in three or all six degrees of freedom	
	d) jog keys: Separate jog keys for direct control all axes or external axes without switching	
	e) Hot-pluggable	
	f) Safety: Emergency stop	
	g) Degree of protection: IP54	
	h) Teach pendant holder	

Sign of Authorized signatory
with name & Seal

4.	Simulation software – Qty : min 5 licenses	
	Specifications	
	a)	Standardized user interface for configuration, programming and diagnosis. (Programming at different skill levels with all the functions required for operator control)
	b)	All planning and configuration tasks, such as system configuration, programming, optimization and diagnosis, are carried out offline on a PC
	c)	Network-based administration of control software updates
	d)	Field bus configuration and I/O mapping for various field buses
	e)	Image-based backup solutions
	f)	Advanced robot monitoring
	g)	Customer-defined program modules
	h)	Simulation of complete robot cells
	i)	Virtual robot controller
	j)	Creation of customer-specific software packages
	k)	TCP/IP data communication
5.	Modular training cell – 1 no (inclusive of following items)	
	a)	Robot pedestal (to be compatible with the manipulator)
	b)	Safety door switch
	c)	Cable tray
	d)	Safety fencing – Material aluminium of suitable height
	e)	Controller stand
	f)	Pneumatic items like FRL unit etc
	g)	Interface panel, Connectors and cables to connect all peripherals
	h)	Table of suitable size
	i)	Chemical Anchoring or castor wheels with locking facility for the cell.
6.	Accessories to be supplied along with package	
	a)	Gripper – 3 nos(to be compatible with the manipulator, Type: electric/pneumatic of reputed make)
	b)	Gripper sensor – 6 nos(to be compatible with the manipulator, Type: Magnetic of reputed make)
	c)	Gripper fingers – 3 sets (to be compatible with the manipulator and of reputed make)
General		
	Transportation, Installation and commissioning at NIELIT, Calicut	
	Warranty : One year minimum	
	AMC : Quote separately for 1 year, 1&2 year and 1,2,& 3 years after warranty	
	Training: Two days training for our staff	
	Acceptance Inspection: At your works by our staff	
	Authorization certificate from OEM to be attached against inquiry	
	Quote Educational pricing for the system & software	

Sign of Authorized signatory
with name & Seal