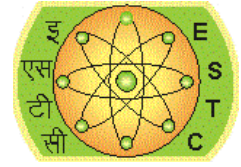




इलेक्ट्रॉनिकी सेवा एवं प्रशिक्षण केन्द्र
ELECTRONICS SERVICE & TRAINING CENTRE
भारत सरकार की सोसायटी
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Government of India Society



ESTC/SP/NC/2(5)/2018-19/101

Dated:28 /05/ 2018

Messers _____

Sub: TENDER DOCUMENTS.

Dear Sir,

Online Techno-Commercial tenders under Double bid system are invited from the manufacturers/suppliers for the Industrial Robot 6 Axis with Module integration & Software-01 No.

A set of tender documents containing detailed specifications including terms and conditions for the Industrial Robot 6 Axis with Module integration & Software is attached herewith as Annexure-I.

You are requested to fill up the tender document strictly as per the enclosed format. The specifications of the item offered by you must be indicated against our required specifications.

Last date for online receipt of tenders duly complete in all respects is 15th June 2018 before 5.00 PM. The Online techno-commercial bids shall be opened on 18th June 2018 at 11.00 AM.

Thanking you.

Yours faithfully,

Sd/-

(S.K. Chetti)
Principal Director

Encl: As above.

KANIYA, RAMNAGAR, DISTT.NAINITAL- 244715 (UTTARAKHAND)
Phone : (05947) 251201, 251294, 255951, 251530 Fax : (05947) 251294
E-mail: pd_estc@estcindia.com Web Site: <http://www.estcindia.com>



Annexure-I
Industrial Robot 6 Axis with Module integration & Software-01 No.

SN.	Performance Features:	Technical Specification
1	Basic System Requirement	Robot- should carry out the Handling like Pick and place object applications and welding operation. Robot- should pick up two jobs from the stray and place it on the assembly table. Welding cum handling Table will have servo control which will work as 7th axis and it will be synchronized. Welding system with power controller with digital power source, full Roll wire feed & carriage through built in solid state circuit.
2	Training Setup for Robotics Basics	- Teaching Board – Base Mounted & Robot Handhold. - Demo tool with stand - Blocks for handling training External TCP Tool
3	Limit Switches	Necessary sensors and limit switches should be provided to avoid any accident
4	Glass / Acrylic structure	Glass / Acrylic structure should be provided with maximum visibility and necessary access as per the complete robot-system over installation dimension.
5	No. of simulation software and validity	Minimum 10 user simulation software's should be provided with perpetual licenses
6	Teach Pendant	Robot should have Independent Teach Pendant with provision of Easy disconnection of Teach Pendant with Robot
7	Automation of Cell	Entire Cell to be Automated through Siemens PLC / Integrated PLC of Robot
8	Robot controller standards	Controller cabinet to have standard IEC/EN certification of IP54 or above protection enclosure Should have Teach Pendant bracket for holding teach Pendant The Cabinet door should be able to open with ease when Teach Pendant & Cables are in their Brackets Pendant cables shall be terminated in connectors at either end & should be easily able to attach or detach. Cable should be highly flexible. Pad lock provision to be integrated with 3 level of safety Function should enable to using ladder function/PLC/c programming in the Robot controller. By executing programs, I/O can be independently controlled of program execution inside robot controller.
	Master/slave	Robot to have Master/Slave functionality. For Robot, PLC will be Master & will communicate on Ethernet/IP. And Robot shall serve as master for all the tools/Grippers I/O's attached to Robot & it will communicate through Ethernet network
	Emergency stop	E-stop buttons should be located both on Teach Pendant as well as on controller. E-stop Push Button should be red mushroom

		type & self-latching with a twist to release. It should have internal as well as external controlled dual channel safety monitoring inputs to stop the Robot when pressed. When pressed, it should override all other program/functions & should be executed at top most priority
	Grade	All the cables & Hose pipes should be of Robotic application grade
	Manuals & Training	All robot related manuals & experiment manual also be provided in hardcopy and softcopy, part list also to be provided. 7-days training should be required for two persons in ESTC

Specifications of Robot

SN.	Performance Features:	Specification
1.	Type	Articulated Type
2.	Controlled axis	6-axes
3	Minimum horizontal Reach	900mm or more
4	Minimum Vertical Reach	1500mm or more
4	Installation	Floor, Upside down, Angle mount
6.	Pay load	7Kg or more
7.	Drive method	Electric servo drive by AC servo motor
8	Repeatability	±0.03mm or better
10	Dust proof and drip proof mechanism	Conform to IP54 or more
11	Gripper	25mm Dia. Two finger, three finger and Vacuum gripper-01 each. or equivalent

Application Module

	Features	Specifications
1	Sorting system	With 200 stroke double acting cylinder - 03 Nos. with all necessary accessories
2	Conveyor system	Minimum 1 M upper & lower conveyor with servo motor for palletization system 1500 mm. Palletizing should be facility for upstream and downstream
3	Material	Fully profile based system in modular form for easy to movement , replacement & assembly.
4	Sorting system	Built in facility for job identification using bar code & color recognition system
5.	Welding system	Welding power source and its complete accessories

- Consumable for three months of operation
- Noiseless compressor with acoustic enclosure and test certificate.
- **IMP Note:-**Industrial robot training set up should be required with heavy structure base and table in sufficient length to perform the practical like pick and place, drawing applications. Bidder should be quote drawing structure with technical offer.

TERMS & CONDITIONS:-

1. The Online Techno-Commercial tender (Under Double Bid System) should be submitted.
2. The rates quoted should be on F.O.R. destination basis.
3. The tender/quotation should remain valid for 90 days from the date of opening of the tender.
4. The tender/quotation should be made in lump-sum price separately for any/each item.
5. In case available on DGS&D rate contract, please attach valid Registration Certificate.
6. 90% payment shall be made on receipt of the item in satisfactory condition & successful installation and balance within 30 days.
7. (a) A demand draft/ CBS Cheque amounting Rs 70,000/- (Rupees seventy thousand only) in the name of the Principal Director, Electronics Service & Training Centre payable at Ramnagar towards lump-sum amount of Earnest Money (Refundable) must be submitted at Electronics Service & Training Centre, Ramnagar by 15th June 2018 before 5.00 PM. The same will be forfeited, if the execution of the order is not made in time. The offers without Earnest Money Deposit will be considered as unresponsive and will be rejected.
(b) Parties registered with DGS&D/NSIC/Other under Government Store purchase programme are exempted from the payment of Earnest Money. A photocopy of the valid Registration Certificate must be attached with the Techno-Commercial Bid.
8. The Principal Director, Electronics Service & Training Centre, Ramnagar does not undertake any responsibility for online submission of tenders and also reserves the right to reject any or all the tenders either in the part or full without assigning any reason thereof.
9. The tender/quotation should be addressed to the Principal Director, Electronics Service & Training Centre, Ramnagar as “ **TENDER/QUOTATION FOR " Industrial Robot 6 Axis with Module integration & Software"**” and should be submitted online latest by **15th June 2018 before 5.00 PM.**
10. The Online Techno-Commercial bids shall be opened online on **18th June 2018 at 11.00 AM.**
11. The Purchase Committee has the right not to accept the lowest rates quoted by the suppliers/ manufacturers without assigning any reason.
12. Non fulfilling of any of the conditions, the tenders/quotations are liable to be rejected.
13. The decision of the Purchase Committee shall be final and binding on all the parties.
14. Conditional, late, incomplete and telegraphic tenders or tenders without earnest money shall not be accepted.
15. The tender documents can also be downloaded from **Website: <https://eprocure.gov.in/cppp/>**

16. The manufacturers/ suppliers should clearly mention about the following points:-
- (i) Price quoted is on F.O.R. Destination basis.
 - (ii) Packing & Forwarding Charges.
 - (iii) GST Charges
 - (iv) Freight Charges.
 - (v) Transit Insurance.
 - (vi) Installation & Commissioning Charges.
 - (vii) Place of Inspection.
 - (viii) Delivery Period.
 - (ix) Manufacturing authorization certificate for the items quoted in tender.
 - (x) Guarantee/ Warrantee/Support.
 - (xi) Validity of offer.
 - (xii) Whether Earnest Money Deposited or Registered with DGS&D/NSIC/Other.
 - (xiii) Payment terms.
17. All disputes are subject to Nainital jurisdiction.

Sd/-

(S.K. Chetti)
Principal Director