



Government eProcurement System

Government eProcurement System

Tender Details

Date : 03-Feb-2020 04:09 PM

Print

Basic Details

Organisation Chain	Council of Scientific and Industrial Research CSIO-Chandigarh - CSIR Purchase-CSIO - CSIR		
Tender Reference Number	CSIO/4(162)/2019-Pur		
Tender ID	2020_CSIR_41909_1		
Tender Type	Open Tender	Form of contract	Supply
Tender Category	Goods	No. of Covers	1
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No
Payment Mode	Offline	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No

Payment Instruments

Offline	S.No	Instrument Type
	1	Bank Guarantee
	2	Demand Draft
	3	FDR

Cover Details, No. Of Covers - 1

Cover No	Cover	Document Type	Description
1	Fee/PreQual /Technical/Finance	.pdf	HMI-PLC based industrial stepper motor training kit with 2-axis control as per NIT document
		.xls	HMI-PLC based industrial stepper motor training kit with 2-axis control as per NIT document

Tender Fee Details, [Total Fee in ₹ * - 0.00]

Tender Fee in ₹	0.00		
Fee Payable To	Nil	Fee Payable At	Nil
Tender Fee Exemption Allowed	No		

EMD Fee Details

EMD Amount in ₹	10,000	EMD through BG/ST or EMD Exemption Allowed	Yes
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	Director	EMD Payable At	CSIR-CSIO, Chandigarh

Work /Item(s)					
Title	CSIO/4(162)/2019-Pur				
Work Description	HMI-PLC based industrial stepper motor training kit with 2-axis control as per NIT document				
Pre Qualification Details	Please refer Tender documents.				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	Yes				
Tender Value in ₹	0.00	Product Category	Equipments (Hospital / Lab)	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	90	Period Of Work(Days)	45
Location	CSIO, Chandigarh	Pincode	160030	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	Purchase Section, CSIO, Chandigarh
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates

Publish Date	03-Feb-2020 04:20 PM	Bid Opening Date	19-Feb-2020 03:30 PM
Document Download / Sale Start Date	03-Feb-2020 04:20 PM	Document Download / Sale End Date	18-Feb-2020 03:00 PM
Clarification Start Date	03-Feb-2020 04:20 PM	Clarification End Date	17-Feb-2020 05:00 PM
Bid Submission Start Date	03-Feb-2020 04:20 PM	Bid Submission End Date	18-Feb-2020 03:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)
	1	Tendernotice_1.pdf	HMI-PLC based industrial stepper motor training kit with 2-axis control as per NIT document	1273.23

Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	BOQ	BOQ_45097.xls	HMI-PLC based industrial stepper motor training kit with 2-axis control as per NIT document	286.50

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	bhatnagar.eproc@csir.res.in	Brijender Bhatnagar	BRIJENDER KUMAR BHATNAGAR
2.	madan.eproc@csir.res.in	Madan Sharma	MADAN SHARMA
3.	ramesh.eproc@csir.res.in	Ramesh Kumar	RAMESH KUMAR
4.	satya.eproc@csir.res.in	Satya Prakash Prabhakar	SATYA PRAKASH PRABHAKAR

Tender Inviting Authority

Name	COSP
Address	CSIO, Sector 30C, Chandigarh

Tender Creator Details	
Created By	Ramesh Kumar
Designation	Assistant
Created Date	03-Feb-2020 04:05 PM



Tender No.	CSIO/4(162)/2019-Pur	Issue Date:	January 31, 2020
Date & time of receipt of tender	18 th February, 2020 upto 3.00 P.M.	Date & time of opening of Tender	19 th February, 2020 at 3.30 P.M.

E-TENDER

Dear Sir,

We are interest to purchase the below given items/attached items. Kindly upload your Tender/Quotation/Proforma Invoice online through E-Tender. Tenders/quotation will be opened in the presence of supplier's representatives who wish to present themselves at that time.

Sr. No.	Name of Item	Qty	Single/Two Bid	EMD
1.	<u>HMI-PLC based industrial stepper motor training kit with 2-axis control:</u> Detailed specifications as per attached Annexure-1	Two	Single	Rs. 10,000.00
Note:	1. <u>Please carefully refer all the Terms & Conditions (attached), before submission of Tender to avoid rejection.</u> 2. Bidder who doesn't manufacture the goods it offers to supply shall submit Manufacturers' Authorization Form (MAF) using the form specified in the bidding document to demonstrate that it has been duly authorized by the manufacturer of the goods to quote and/or supply the goods, failing which offer will not be considered/rejected. 3. The successful bidder has to provide Performance Security for 10% value of the contract as specified in the bid documents. Performance Security may be furnished in the form of an account payee demand draft, fixed deposit receipt from a commercial bank, bank guarantee issued/conformed from any of the commercial bank in India in an acceptable form, safeguarding the purchaser's interest in all respects. 4. The EMD in the shape of Demand Draft, BG, FDR in the name of Director, CSIO, Chandigarh should be reached in this office BY POST/COURIER before the due date of submission of Tender. The envelope containing the EMD must indicate the Tender Ref. No. & due date of submission of Tender.			
Note: For Financial bid please fill the BOQ as attached. Tender by Email/Fax will not be considered.				

Tender has been e-tendered on www.tenders.gov.in. Prospective bidders are requested to register themselves at www.etenders.gov.in for future also.

Yours faithfully

(Mohinder Kumar)

Controller of Stores & Purchase
For & on behalf of CSIR-CSIO

HMI-PLC based industrial stepper motor training kit with 2-axis control:**Important notes:**

1. Hybrid Stepper motor should have micro stepping mode and must have encoder for position feedback.
2. Technical drawing of electrical circuit also need along with mechanical drawing of critical parts.
3. Critical hardware spares parts of mechanical and electrical.
4. All the products are to be provided with suitable plug in/out features for control wiring.
5. Stepper Motor should be controlled by pulse train and also by communication.
6. PLC, HMI, Stepper Motor and Stepper Motor driver must be make of any one of these Siemens, Fuji, Mitsubishi, Omron, ABB, Baldor, Vexta and Allen Bradley (same make shall be considered for PLC-HMI and stepper motor and its driver). All other components or Electrical hardware may be use of make Keyence, Schneider, Teknic, Omron, SELEC, Anchor, Havells, Syska, V-Guard, Wago, Phoenix, C&S , etc. **(any reputed brand)**
7. There should be proper electric control panel containing the control elements (e.g.PLC), the wiring must be properly dressed.
8. Vendor has to specify the make with catalogue and authorization letter from these companies.
9. Hard copy & soft copy of the Training Manual of kit & technical specifications of devices used shall be provided along with the Trainer kit.
10. A proper kit manual, training manual and exercise manual should be there to cover concept of stepper motor and control, motion control, interpolation etc., there should be examples that can be taught to students.
11. Apart of the examples required in this sheet, please ensure other example related to Stepper motor system which are essential as per training aspect for students, which will help them to explore the Industrial stepper motor and its capabilities.
12. All the control provided on control box shall be separately available on HMI Screen also. Also provide the important controlling data on HMI Screen. Separate page must be made as per Example needed at HMI Screen.
13. As best as possible the kit should be working in PNP nature.
14. Trainer kit to be assembled on site & installed at the appropriate place. (office opens 5days/week)
15. Detail Training on the kit to be provided after successful installation of the Trainer kit with elaborating hardware function at kit, (also documented in power point)
16. Software package needed of HMI, PLC, and the stepper configuration software.
17. One year of Comprehensive Warranty on all the components of the Trainer kit and 2 free detailed training programs with in the complete package/Kit.
18. As per availability preference must be given to USB programming cable over other types of programming cables.

HMI-PLC based industrial stepper motor training kit with 2 axis control-Specifications			
	1.1	PLC	Quantity
		No. of Inputs: at least 16 No. of Outputs: at least 16 Input Type: 24 VDC Sink/Source Output Type: Transistor (source) Analog output: at least 1 Analog Input: at least 2 Supply : 24VDC	1
		Programming Cable+1Spare at least 3meter length	2
	1.2	Human Machine Interface	
		Display Size at least 7" Keyboard Type Touch Screen Screen Aspect Landscape SD/USB Card support Yes for data logging Power supply 24VDC Buzzer output Single Tone	1
		Programming Cable+1Spare at least 3meter length	2
		HMI to PLC communication cable	1

1.3	<u>Stepper motor driver(for X & Y axis)</u>	
	Stepper motor driver: Power supply: 24VDC or 1-Phase 220VAC Command : Pulse Train, communication	2
	Programming Cable+1Spare at least 3meter length	2
	<u>Stepper Motor with encoder (for X & Y axis)</u>	2
	Stepper motor torque greater than or equal to 20kgcm	
1.4	<u>Essential Electrical Hardware</u>	
	Relay Card/module with both NO+NC support, Transparent & easily removable Function: Relay Card to be use for protecting Digital transistor Output.	As per required
	Alarm Tower with Yellow, Red, Green Indication 220vac Function: <i>Yellow-Standby, Red-Any fault alarm, Green- Healthy run</i> Indications for the kit.	1
	All wiring shall be use of Copper material, ducting and conduiting must be done of any good brand.	As per required
	Push button box having Push buttons Diameter 22; Functions: Green Start-NO Block; Black Stop-NC Block, Yellow Fault reset-NO Block, Emergency stop Red & Yellow color Mushroom type NC block, Safety curtain bypass Switch-NO Block, Selector switch Auto & Manual both with NO block.	1 (each)
	All Examples operations have both auto & manual software buttons at HMI, on their respective pages.	As per required
	Kit shall have mains on/ off switch and ELCB or RCCB protection	1
	24V DC SMPS power supply shall be of good brand.	As per required
	Separate MCB Protection for DC 24V power supply	As per required
	Separate MCB protection for 220V AC control Supply	As per required
	Contactors shall be use of good brand.	As per required
	Proper written stickers shall be provided on each hardware and button on control box control panel and visible hardware.	As per required
1.5	<u>Essential Mechanical Hardware</u>	2 nos.
	Both axis should be driven by stepper motor connected to a ball-screw via coupling.	As per required
	Both axis should have the rail guide for motion of axis.	
	The effective travel of each axis should be 750mm.	
	Both stepper motor systems must have to control Ball screw based pointers (In X & Y axis) on linear motion having dedicated steel scales in X and Y axis and also attachments should have to hold Standard Pen or Marker to plot result on bottom surface may be on fixed board.	
	Both stepper motors mechanical attachment shall be such kind that stepper motors could be able to run dependently to generate combine result like plotting etc. & also able to work independently to generate separate result like displacement control as per steel scales.	
	Mechanical limits must be duly controlled by sensors, the sensors should be mounted on each end for safety of mechanical limits and can be used for homing.	
	All the structure should be of aluminum extrusion.	
	Any part used in the examples shall be reusable and no functional plastic components.	As per required
	Kit shall have protective Acrylic sheet with hinge support to open/ close for installing mechanical attachments/ adjustment for particular exercise, interlock shall be given to plc if any one Acrylic sheet remain open, HMI screen shall highlight "Safety Door Open".	
	Kit shall have wheels with locking arrangements so as to prevent movement while operation.	
	Kit size shall not be above 1180mmx1180mm floor area and height shall be like easy to use/ operate while standing. (average height people e.g. 5 feet 4 inch)	
	Panel must be fix Vertically at the bottom part (nonfunctional area) of the kit	
	Any part used in Exercise shall with stand under maximum values of torque, speed and position control. Also provide sufficient no's of spares sample components used in Exercise.	As per required

TERMS & CONDITIONS

1. The quotation/tender must be in the form furnished by the Purchaser/as per tender specifications and should be free from corrections/erasures. In case there is any unavoidable correction it should be properly attested. If not the quotation will not be considered. **Hand written Quotations will not be considered.**
 - (a) Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc. **such offer shall be rejected as incomplete. As such clearly mention these charges.**
 - (b) The bidder should give a clear cut break up of ex-works, FOB/FCA, CIF/CIP price to facilitate the proper comparison **failing which the bid would be summarily ignored/rejected.** CSIR reserves the right to order on the basis of any of the incoterms. The Exchange selling rates will be taken from www.xe.com.
 - (c) The gross weight of the consignment may be intimated in the Quotation/Tender/Proforma Invoice to decide the mode of dispatch.
2. **The E-Tenders will be accepted through online only. The tender received in any other mode or physical tender will not be accepted and will be ignored. This is not applicable for E-Publish Tender Notice**
3. It may kindly be noted that your bid should
 - A) be in **single part. (single part / two part bidding) (retain one only)**
 - B) accompany Bid Security(EMD)/5F (Annexure) of Rs..... **(retain only if applicable)**
 - C) on the event of award of Contract in your favour, you need to submit a Performance Bank Guarantee for 10% of order value valid for a period of 2 Months beyond the Warranty period of..... **(retain only, if applicable)**
4. Each quotation/Tender in case of E-Publish Tender sent by post is to be enclosed in double cover addressed to **The Director, CSIO, Sector-30, Chandigarh-160 030.** Quotations delivered personally should be put in the tender box kept in the office of Stores & Purchase Officer. The late/delayed and unsigned quote will not be considered at all.
5. The acceptance of the quotation will rest with the competent authority of **Central Scientific Instruments Organisation, Sector-30, Chandigarh** who does not bind himself to accept the lowest quotation and reserves the right to himself to reject, or partially accept any or all the quotations received without assigning any reason.
6. **Price & Validity:** Price quoted should be net (separately mention required charges as Sr.No. 1(a,b) above) and valid for a minimum period of **90 days** from the date of opening of the quotation, **failing which the offer will be ignored/rejected.**
7. The bidder must submit the applicable Price Schedule Form as Annexed to the tender document available on the website.
8. Complete specification with manufacturer's name and address should be given while quoting. Literature/Pamphlets should also be enclosed wherever applicable.
9. Prices are required to be quoted in units indicated in the enquiry. When quotations are given in terms of other units, relationship between two sets of units should be furnished. Quantity discounts, if any should also be indicated. The items should be quoted indicating the serial No. of our RFQ.
10. In cases of agents quoting on behalf of their foreign manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. **One manufacturer can also authorize only one agent/dealer.** There can be only one bid from the following:
 1. The foreign manufacturer directly or through one Indian agent on his behalf; or
 2. Indian/foreign agent on behalf of only one principal.
11. Please indicate the name and address of the agents in India if any, the details of service to be rendered by them & the percentage of commission payable to them. Agency commission payable to the Indian Agent should be clearly indicated. The Agency commission would be payable only in Indian Rupees after acceptance. Further an Indian Agent cannot quote on behalf of two different foreign suppliers. If they submit two offers on behalf of two different foreign suppliers, **their offers may not be considered. If the offer is submitted by the Authorised Dealer/Agent/Distributors, it should be alongwith Authorisation Certificate, failing which the offer will be ignored/rejected.** The offer submitted through authorisation on behalf of the principal, the terms & conditions settled by the Agent with buyer will be binding on their principal.
12. **Taxes as are applicable should be indicated clearly failing which the offer shall not be considered and rejected.** This lab/Instt is registered with Dept. of Scientific & Industrial Research, Govt. of India and concessional customs duty and GST & IGST are leviable vide notification no. Custom Duty under Govt. Notification No. 51/96-Custom dated 23.07.1996 and No. 43/2007-Customs dated 30.06.2017 and Govt. Notification No. 45/2017-Central Tax (rate) & No. 45/2017-Integrated Tax (rate) dated 14.11.2017. Only basic duty is applicable under this notification, hence bidders will have to submit their offer accordingly. We are exempted from payment of Customs Duty under notification No.51/96 dated 23.07.1996. Hence IGST and Customs Duty, if any, should be shown separately. No other charges than those mentioned clearly in the quotation will be paid
13. The mode of dispatch/transportation of the items must be by **Air/Sea/Rail/Road only. (Retain one only).**
14. In case the items in the enquiry are covered by any rate contract or running contract finalised by any other state or central Government, it should be specified in your quotation and accepted contract rates should also be mentioned.
15. **Delivery period** required for supplying the material should be invariably specified in the quotation. The offered delivery period shall have to be strictly adhered to in case an order is placed.

16. **Liquidated Damages Clause for delays:** The applicable rate is 0.5% per week and maximum deduction is 10% of the contract price.
 17. If the deliveries are not maintained and due to that account the purchaser is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier.
 18. All supplies are subject to inspection and approval before acceptance. Manufacturer warranty certificates and manufacturer/Government approved lab test certificate shall be furnished along with the supply, wherever applicable. Please mention the warranty period of equipment, which should be from the date of satisfactory installation. **The offer received for lesser warranty, as asked for in the tender, will be rejected/ignored.**
 19. TDS would be recovered as per rules in case of Fabrication/ Servicing/ Maintenance jobs/Installation charges etc.
 20. Kindly furnish your PAN & GST Number etc. in your quotation for our records. Our GST No. is 04AAATC2716R1ZN
 21. Our normal payment terms are 100% (hundred percent) within 30 (thirty) days on receipt and acceptance of material at our site in good condition. Please inform your Bank details for RTGS payment. Banking details should be available on Bill/invoice.
 22. **Reasonability of Prices/Fall Clause**
 - i) Please quote best minimum prices applicable for a premiere Research Institution, leaving no scope for any further negotiations on prices.
 - ii) The quoting party should give a certificate to the effect that the quoted prices are the minimum and they have not quoted the same item on lesser rates than those being offered to CSIO to any other customer nor they will do so till the validity of offer or execution of the purchase order, whichever is later.
 - iii) Copies of atleast two recently supplied orders of the last two years received from other customers alongwith details of such supply orders preferably in India for the same item/model may be submitted with the offer giving reasons of price difference of their supply order & those quoted to us, if any. The party must give details of identical or similar equipment, if any, supplied to any CSIR lab during the last three years alongwith the final price paid and Performance certificate from them.
 23. **Installation/commissioning:** Equipment/Instruments are required to be commissioned/installed/demonstrated successfully immediately or within 30 days from the date of receipt of the system in CSIO by the Principal or by their authorized Agent, **failing which the Liquidated Damage Clause will be applicable as mentioned above.**
 24. Certificate of undertaking that the equipment is of latest technology & will not be obsolete within 5 years after warranty will be attached with the offer. All essential spares parts of the offered equipment will available with the manufacturer or in India with your Indian Agents for a period of at least 5-7 years after warranty period which will be required at later stage
 25. MSME benefits will be given to the eligible supplier as per the Govt. guidelines subject to submission of proper document as per policy or Udyog Adhar Udyog Memorandum in respective category
 26. Code of Integrity has to be maintained by Bidders/Suppliers/Contractors by maintaining highest standards of ethics in the Procurement process and prohibits corrupt practice/Fraudulent practice/Anti- Competitive practice / Coercive Practice/ Conflict of Interest and Obstructive practice either directly or indirectly during the process of contract.
 27. All disputes shall be settled in the courts of **Chandigarh Jurisdiction** only.
 28. Tender conditions (printed on the reverse), if any, or otherwise sent along with the tender shall not be binding on us.
 29. All the above instructions and our standard terms and conditions must be complied failing which your offer may be liable for rejection.
 30. As per Govt. of India procurement policies (under Make in India (MII))
 - a. The purchaser intends to give purchase preference to local suppliers* in case the cost of procurement is in the range of more than Rs 5.00 lakhs and up to Rs. 50.00 lakhs.
 - b. The eligibility of the supplier is restricted to Indian Suppliers or there is no restriction on the eligibility of the suppliers. **(retain any one only)**
 - c. The procuring entity intends to give purchase preference to products/goods manufactured by micro, small and medium enterprises.
- **Local supplier**** means a supplier or service provider whose product or service offered for procurement meets the minimum local content as prescribed in DIPP Order No.P-45021/2/2017-PP (BE-II) dated 28th May, 2018 or by the competent Ministries/Departments in pursuance of this order.
- 'Local content'** means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.
31. Instructions to Bidders, General Conditions of Contract applicable to limited tenders originating from S&P Division along with different formats can be viewed on our website www.csio.res.in under the heading tenders.

Yours faithfully,

COSP
For & on behalf of CSIR-CSIO