



॥ अंतरी पेटवू ज्ञानज्योत ॥

**कवचित्री बहिणाबाई चौधरी
उत्तर महाराष्ट्र विद्यापीठ, जळगाव**

PLC and its Modules खरेदीसाठी निविदा सूचना

कवचौउमविच्या (भौतिकशास्त्र प्रशाळा) साठी लॅब इक्युपमेंट फॉर अंकेडमिक डिपार्टमेंट या फंड अंतर्गत **'PLC and its Modules खरेदीसाठी'** नोंदणीकृत पुरवठादारांकडून निविदा मागविण्यात येत आहेत.

त्यासंबंधीची कोरी निविदा संपूर्ण माहिती, अटी व शर्तीसह विद्यापीठाच्या संकेतस्थळावर (Website: www.nmu.ac.in) उपलब्ध करून देण्यात आली आहे. मान्यताप्राप्त **PLC and its Modules** पुरवठाधारकांनी सादरची निविदा विद्यापीठ संकेतस्थळावरून डाऊनलोड करून परिपूर्ण भरलेली निविदा दि. ०१/११/२०२२ रोजी सायं. ५.०० वाजेपर्यंत कार्यालयीन वेळेत कामकाजाच्या दिवशी मा.संचालक, भौतिकशास्त्र प्रशाळा, कवचौउमवि, जळगाव येथे जमा करावी.

सादर निविदा सादर करण्यासाठी मुदतवाढ दिल्यास अथवा शुध्दीपत्रक निर्गमित केल्यास त्या संबंधीची सूचना फक्त विद्यापीठाच्या संकेत स्थळावर प्रसिध्द करण्यात येईल.

जाक्र.: कवचौउमवि/२४/भौ.शा.प्रशाळा/PLC/४१/२०२२

दिनांक : १०/११/२०२२

वित्त व लेखा अधिकारी



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SCHOOL OF PHYSICAL SCIENCES

**TENDER DOCUMENTS FOR
SUPPLY AND INSTALLATION OF
PLC AND ITS MODULES**

[PART – I, II, III & IV]

Price Rs. 2000/-

REF:-KBCNMU/24/Tender/SOPS/PLC/41/2022, Date: 10/11/2022

**FOR MORE DETAILS VISIT THE PORTAL OF
www.nmu.ac.in**

(Total Pages 01 to 07)

Last Date for Submission of Tender:- 01/12/2022



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**PART – I
(DETAILS OF THE TENDERER)**

- 1) Name of the Supplier/Firm/Company :
- 2) Mailing address :
- 3) Telephone/Email/ Fax Numbers :
- 4) Constitution of the Company/Proprietary :
Partnership Firm/Pvt./Public Ltd. Co. :
- 5) Experience in business :
- 6) * Income tax return for last three :
Financial years :
(2019-20, 2020-21, 2021-2022) :
- 7) * Shop Act. Registration No. :
- 8) * GST Registration No. :
- 9) * PAN No. :
- 10) * Statement of Accounts from last three :
years – (2019-20, 2020-21, 2021-2022) :
- 11) Details of Earnest Money & Cost of :
Tender (D. D. No. & Date) :
- 12) * Name of the company of which :
you are authorized dealer etc. :
(attested copy of certificate of authorized- :
dealership must be enclosed) :

(For the items marked (*) relevant documents must be enclosed with part - I.)

Signature & Seal of the Tenderer



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Part-II

Technical, General and Commercial Conditions of the tender:

- 1) The tender is called for TENDER DOCUMENTS FOR SUPPLY AND INSTALLATION OF “PLC AND ITS MODULES”.
- 2) **EARNEST MONEY:-** Vendors are required to submit a Demand Draft of Nationalized Bank of **Rs.10,000/- (Rupees- Ten Thousand Only)** as **Earnest Money** Deposit along with the tender. The Demand Draft must be drawn in favour of “**Finance and Accounts officer, North Maharashtra University, Jalgaon**”. In addition to Earnest Money Deposit Vendor is required to give a demand draft of **Rs.2,000/- (Rupees Two Thousand only)** towards the **cost of tender** (non-refundable) along with the tender. Offers made without E.M.D. & Cost of Tender will be rejected. If the tenderer, whose tender is accepted, refuses to accept the order, the amount of E.M.D. will be forfeited.
- 3) **Payment:** 100% payment after satisfactory supply and Installation & technical committee report received from the technical committee. Within 30 days from the date of supply No part payment will be made. Rates quoted should be inclusive of GST. The payment will be made by cheque/RTGS mode only.
- 4) **Delivery Period:** - All material must be supplied within 02 weeks from the date of receipt of purchase order. If bidder fails to deliver the order material within time, university will entitle to recover penalty as liquidated damage @ 0.5% of total value of invoice each week.
- 5) **Terms of Delivery :** F.O.R. K.B.C.N.M.U. (Department of Electronics, SOPS, KBCNMU, Jalgaon)
- 6) **Security Deposit:** The successful tenderer will have to give security deposit to the extent of 5% of total order value within 7 days from the date of receipt of purchase order. The amount of security deposit with out any interest thereon will be returned to the tender after satisfactory completion of work. The amount of Security deposit will be forfeited in case of successful bidder refuses to supply the material within stipulated period and if the installation of equipments is not satisfactory.
- 7) **Rates mentioned in commercial bid must be inclusive of GST.**
- 8) Tender offer must be valid for a period of 120 days after the date of opening of tender. Any offer failing short of the validity period is liable for rejection.
- 9) All disputes are subject to Jalgaon Jurisdiction.
- 10) Tender is being called in two envelopes system. i.e. the technical bid and commercial bid. The technical bid comprises part-I details of the tenderer, Part-II Technical bid and Part III general and commercial conditions of the tender The Commercial bids comprises Part IV. The tenderer has to submit both the bids in separate envelopes.

- 11) The Tenderer must submit his offer in two separate envelopes A-B envelope-A will contain part I, II, III and Envelope –B will contain part IV both the envelopes must be super cried as “ **Tender for Supply and Installation of PLC and its Modules**”
- 12) **Performance Bank Guarantee:-** The successful bidder will have to submit the performance Bank Guarantee along with invoice equivalent to 5% of total value of invoice towards Performance Bank Guarantee for the period of 60 days from the date of supply and installation of instrument.
- 13) The University reserves the right to accept or reject any or all the tenders from any or all the parties without assigning reason thereof.
- 14) Tender offer should be complete in all respect and as per the format as prescribed by the university. Incomplete offers would not be entertained.
- 15) Copies of shop Act Registration, GST /Shop Act, PAN Registration etc. should be enclosed along with part-I
- 16) The University reserves the right to delete/ increase/ decrease items from the schedule of requirement specified in the tender.
- 17) The University reserves the right to accept or reject all or any tender without assigning any reason whatsoever.
- 18) Tender received after due date and time will not be considered whatever may be the reason therefore. In case tender are sent by post / speed post courier etc.It shall be responsibility of the tenderer to ensure that they are received before due date and closing office hours.
- 19) The rates without any corrections or overwriting should be quoted for each individual item separately. Otherwise tender will be liable to rejected.
- 20) The decision of the University regarding this will be final and shall be binding on tenderer. The University reserves the right to accept or reject the entire tender.
- 21) The Venders black listed by the University are not eligible for submitting the tender. If they do so there tender will not be considered.
- 22) Supplier shall fill up the rate in appropriate place. (i.e. PART – IV- (Commercial Bid)
- 23) The last date for submission of tender shall be/11/2022 during office hrs. (10.00 am to 5.40 pm) at “Director, School of Physical sciences, KBCNMU, Jalgaon-425001
- 24) **Warranty:-** The bidder should clearly mention the period of warranty of all types of Instruments.

Place :- Jalgaon.
Date :- 10/11/2022

Finance & Accounts Officer

Signature & Seal of Vendor in

Token of acceptance of all
Terms & conditions of tender

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**Technical Bid
Tender Part-III**

Technical details of Supply and Installation of PLC and its Modules

Sr. No.	Details of stores Materials equipment	Qty	Technical Specifications
1	2	3	4
01	PLC (HMI)	02	Universal PLC Platform with HMI and Siemens PLC , PLC : CPU type, CPU : 1214C, Digital inputs : 14, Digital outputs : 10, Analog inputs : 4, Analog output : 4, Program size : 75KB, Internal memory bits : 256, Interface : Ethernet Human Machine Interface (HMI) HMI Supply : +24V DC CPU : 32-bits 400MHz RISC Flash : 128MB, DDRAM : 64MB, Display size : 7 inch, Resolution : 800 × 480 TFT LCD 65, 536 colors Touch screen : High precision four-wire resistive, DC motor : 1 no.
02	Modules for PLC (Programmable Logic Controller)		
	1. Water Level Control by PLC	01	Interface : 20 pin FRC cable with PLC, Input pin voltage : 24 V DC when particular, I/P is activated from PLC, Output pin voltage : 5 V DC when particular, O/P is activated from PLC, Power supply : From PLC
	2. Elevator Control by PLC	01	Interface : 20 pin FRC cable with PLC, Input pin voltage : 24 V DC when particular, I/P is activated from PLC, Output pin voltage : 5 V DC when particular, O/P is activated from PLC, Power Supply : From PLC
	3. Traffic Light Control by PLC	01	Interface : 20 pin FRC cable with PLC, Input pin voltage : 24V DC when particular, I/P is activated from PLC, Output pin voltage : 5V DC when particular, O/P is activated from PLC, Power Supply : From PLC
	4. Temperature Control by PLC	01	Digital Output pin Voltage : 5 V DC when particular o/p is activated from PLC, Output of Sensor : 0-1 V max 0 to 100°C, Heater : 10 Watt resister Power Supply : From PLC and DC 12V - 1A adapter for fan and heater
	5. Conveyer control by PLC	01	Digital Input pin voltage : 24VDC when particular I/P is activated from PLC, Digital Output pin voltage : 5VDC when particular O/P is activated from PLC, Interface : PLC, Buzzer : +5V DC, Proximity Sensor : +24V DC output, IR Sensor : +24V DC output, DC Motor : +5VDC Mains Supply : +5V & +24V
	6. Speed Control of DC Motor by PLC	01	Analog Input ranges : 0-10V approximately, Analog Output range : 0-10V, DC Motor: Supply Voltage :12V DC, Speed range :2400 RPM Speed sensing : IR Sensor Digital Output pin voltage : 5VDC when particular O/P is activated from PLC, Output of F/V Converter : 0-10Vmax 0 to 2400 RPM, Mains Supply : 100-240V AC, 50/60 Hz
	7. Motor & Switches Control by PLC	01	Interface : 20 pin FRC cable with PLC Digital input pin voltage : 24V DC when particular Input/output is activated from PLC, Digital output pin voltage: 5V DC when particulars input/output is activated from PLC. Stepper motor : 5V DC Thumbwheel switch : + 24V DC Limit switch : + 24V DC Power supply : From PLC

	8. Study of Star Delta and Direct On Line (DOL) Starter by PLC	01	Interface : 20 Pin FRC cable with PLC Input pin Voltage : 24 V DC when particular, I/P is activated from module, Output pin Voltage : 5 V DC when particular O/P is activated from PLC, Power Supply : From PLC Power Consumption : 2.5 VA approximately Weight : 300gms approximately, Dimension (mm) : W 360 x D 260 x H 110, Operating Conditions : 0-40 C, 80% RH
	9. Variable Frequency Drive Platform	01	Variable Frequency Drive Platform With 1 HP motor

Signature & seal of the tenderer.



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**PART – IV (Commercial Bid)
SUPPLY AND INSTALLATION OF PLC AND ITS MODULES**

Date : / /2022

To,
The Finance & Accounts Officer,
Kavayitri Bahinabai Chaudhari
North Maharashtra University,
P.O. Box No. 80,
Umavinagar, Jalgaon.

Sub : Submission of Commercial Offer.

Dear Sir,

In response to your advertisement in KBCNMU/24/SOPS/PLC/33/2022, Dtd.14/10/2022, we hereby submit our best possible rates for items mentioned in technical bid (Part-III) of this tender form.

Sr.No	Item Description	Qty.	Rate (Inclusive of GST)
1	PLC (HMI) (Programmable Logic Controller)	01	
2	Modules for PLC (Programmable Logic Controller)		
	1. Water Level Control by PLC	01	
	2. Elevator Control by PLC	01	
	3. Traffic Light Control by PLC	01	
	4. Temperature Control by PLC	01	
	5. Conveyer control by PLC	01	
	6. Speed Control of DC Motor by PLC	01	
	7. Motor & Switches Control by PLC	01	
	8. Study of Star Delta and Direct On Line (DOL) Starter by PLC	01	
	9. Variable Frequency Drive Platform	01	

Signature & Seal of the tenderer