



NATIONAL INSTITUTE OF TECHNOLOGY PATNA

(An Institution of National Importance under MHRD, Govt. of India)

ASHOK RAJPATH, PATNA-800 005 (BIHAR)

Ph. 0612-2371715,2372715,2371929 Fax-061-2660480

Website- www.nitp.ac.in e-mail-registrar@nitp.ac.in

Tender No. NITP/Proc./20-21/01

Dated 16/06/2020

Sub: Open Tender for Procurement of equipments for Various Lab. at NIT Patna.

National Institute of Technology Patna, an Institute of National Importance, invites sealed tenders from reputed/Original Equipment Manufacturers / Authorised Dealers / Bidders for quality procurement of equipments for Various Lab. of Electrical Engg. Dept., NIT Patna.

List of Annexures

Sl. No.	Description	Annexure
1	List of Instruments	I (a)
2	List Of Details Specification	I (b)
3	List of Compliance Statement	II
4	Instruction To Bidders	III
5	General Terms & Conditions	IV
6	Tender Format for Price Bid	V
7	Technical Check list/Criteria	VI

Critical Date Sheet

Sl. No.	Description	Date and time
1	Publishing Date	16.06.2020 : 05:00 PM
2	Bid Document Download / Sale Start Date	17.06.2020 : 10:00 AM
3	Bid Submission End Date	07.07.2020 : 01:00 PM
4	Bid Opening Date (Technical and Financial)	07.07.2020 : 03:00 PM
5	Place of Opening Tender	Procurement Conference Room, NIT Patna

Detailed descriptions of the item and instructions for submitting your offer can be downloaded from our website www.nitp.ac.in.

The proposals must be sent in two separate sealed envelopes (Technical Bid and Price Bid) duly subscribed with Reference number and Tender Notice details as appended hereunder:-

TENDER FOR SUPPLY OF EQUIPMENTS FOR VARIOUS LAB. OF ELECTRICAL ENGG. DEPT.	
TENDER REF NO: - NITP/Proc./20-21/01, DATED 16.06.2020	
LAST DATE FOR SUBMISSION 07/07/2020 UPTO 01:00 PM.	
To, The Registrar National Institute of Technology Patna Bihar, INDIA	From: M/s _____ Address: _____ Contact No.: _____ Email ID: _____

The technical bids will be opened in the presence of the Bidders/Vendors or their authorized representative who wish to be present.

Registrar

LIST OF LAB INSTRUMENTS:

Sl. No	Lab	Description	Remarks
1.	Power System Laboratory	List of individual components with details of specifications is given in List 1 below	
2.	Industrial Drives & Control Laboratory	List of individual components with details of specifications is given in List 2 below	
3.	Microprocessor and Microcontroller Lab	List of individual components with details of specifications is given in List 3 below	
4.	Electrical Machine Lab	List of individual components with details of specifications is given in List 4 below	
5.	Power Electronics Lab	List of individual components with details of specifications is given in List 5 below	

N.B.: Preference will be given to those bids that cover the entire list of components (with suitable technical specifications) for a given Item category.

List 1

Specification of Power System Laboratory			
Sl. No.	Description	Specification	Qty.
1	Model of a 3-Phase TRANSMISSION LINE for MEASUREMENT OF A, B, C, D Parameters	<p>List of Components:</p> <p>a) 3-ph Variac 0-415V, 5A/10 A-2 No.</p> <p>b) Smart meter at both ends to measure voltage, Current, active reactive power, frequency, power factor for all phases or, alternatively Ammeter (A), 0-2.5A-5.0A-10A Voltmeter 0-100V-250V (AC).</p> <p>c) PAM – Phase angle meter (0 – 180o) x 2, voltage rating 250V (ac), current rating 10 A (AC)</p> <p>d) 10 - 12 nos. PI-line or T-line transmission units having provision to be connected in series or parallel formation as and when required. Each PI line / T line unit represents an equivalent 50 km length of line referred to 3 phase, 110V,3A transmission system. L = 1.6mh, 5A, (12 nos.), C= 8.0 mf.</p> <p>e) 3-Phase 6-Pole, 6 Positions Rotary switch....1 No.</p> <p>f) Three pole ON/OFF switch....1 No.</p> <p>g) Phase shifting transformers (3-ph) connected for reverse power flow from receiving to sending end.</p>	01

List 2

Specification of Industrial Drives & Control Laboratory			
Sl. No.	Description	Specification	Qty.
1	Dc-dc-buck Boost Converter For Dc Motor Load:	<p>(a) 1000W DC-DC Buck Boost converter.</p> <p>(b) Built in PWM controller</p> <p>(c) 0.5hp DC Motor With Spring balance load</p>	01
2	Single - Phase Dual Converter For Dc Motor Load:	<p>(a) SCR triggering section</p> <p>(b) Dual converter power circuit section</p> <p>(c) Single phase isolation Transformer and separate field supply</p> <p>(d) 0.5hp DC Motor With Spring balance load</p>	01
3	4-quadrant Dc-dc Converter For Dc Motor Load:	<p>(a) Built in PWM controller</p> <p>(b) 1KW IGBT Based Chopper Power Circuit</p> <p>(c) 0.5hp DC Motor With Spring balance</p>	01
4	Single Phase Induction Motor Using Ac Voltage Controller:	<p>(a) Built in PWM controller</p> <p>(b) SCR Power Circuit</p> <p>(c) 0.5hp Induction Motor With Spring Balance Load Setup</p>	01
5	Single Phase Induction Motor Using Single Phase Cyclo Converter:	<p>(a) Built in PWM controller</p> <p>(b) SCR Based Cycloconverter Power Circuit</p> <p>(c) 0.5hp Induction Motor With Spring Balance Load Setup</p>	01

List 3

Specification of Microprocessor and Microcontroller Lab			
Sl. No.	Description	Specification	Qty.
1	8086 Microprocessor Trainer kit	<ol style="list-style-type: none"> 1. Onboard LCD to display instructions and check results within each registers and memory 2. Provision for single stepping, support of labels inside instructions 3. Availability of onboard hex keyboard 4. On board RS232 & USB connector 5. Inbuilt assembler & disassembler and cable-connector set 6. separate switched mode Power supply and compatible ASCII keyboards 7. The ability to flash or dump machine codes from PC to trainer system using suitable interface 8. Good quality components must be used, Clear documentation with availability of good user manuals and good quality, accessible support with warranty. 	08
2	8051 microcontroller development boards	<ol style="list-style-type: none"> 1. Flash microcontroller of 8951 family 2. Inbuilt flash memory and SRAM 3. Onboard at least 2-line LCD 4. On-Board serial (12C or any serial mode) EEPROM and onboard {12C or any serial mode} Real Time Clock {RTC}. 5. On-Board 8-Bit ADC. 6. On-Board Matrix Keypad. 7. On-Board 7 Segment Display. 8. On-Board Stepper Motor Driver. 9. On -Board 8 LED's. 10. Support for Interrupt Generation using switches or any other better input methods 11. On-Board GPIO Connector for interfacing additional devices {Connectors should be provided} 12. 12C and SPI Port for interfacing additional SPI based devices. 12. 12C and SPI Port for interfacing additional SPI based devices. 13. Software & documentation: <ol style="list-style-type: none"> a) KEIL IDE {Integrated Development Environment} (preferred) b) Sample codes and Board User Manual c) Provision for single stepping, support of labels inside instructions. 14. Good quality components must be used, Clear documentation with availability of good user manuals and good quality, accessible support with warranty. 	05

3	8255 Study Card With Features For 8086 And 8051	1. Should be fully compatible with serial 1 and 2 2. Should be supplied as accessory to serial 1 and 2 3. Preferably of same make as serial 1 and 2	05
4	Power Supply Adapter For Experimental Kits	1. Should be fully compatible with serial 1 and 2 2. Should be supplied as accessory to serial 1 and 2 3. Preferably of same make as serial 1 and 2	05
5	DAC Card	1. Bit size of the DAC should be 8 bits 2. Should be fully compatible with serial 1 and 2 3. Should be supplied as accessory to serial 1 and 2 4. Preferably of same make as serial 1 and 2	05
6	8 Channel, 8 BIT ADC Card	1. Should be fully compatible with serial 1 and 2 2. Should be supplied as accessory to serial 1 and 2 3. Preferably of same make as serial 1 and 2	05
7	Stepper Motor Control Card	1. Should be fully compatible with serial 1 and 2 2. Should be supplied as accessory to serial 1 and 2 3. Preferably of same make as serial 1 and 2	05

List 4

Specification of Electrical Machine Lab			
Sl. No.	Description	Specification	Qty.
1	LCR Meter	Frequency: 20Hz - 200kHz; Accuracy: 0.05%, minimum 6 digit reading resolution, USB interface, L : 0.00001 μ H — 99.9999kH, C : 0.00001pF — 9.99999F, DCR : 0.00001Ohm— 99.9999M.Ohm	01
2	Transformer	1KVA, 50Hz, Primary_winding: 240V; Secondary_winding_1: 120V; Secondary_winding_2: 120V, 1-phase isolated multiwinding shell type, dry type air cool, with banana socket	03
3	Rheostat	80 Ohm, 5A, Vaiable wire wound single tube with hand sliding	06
4	Rheostat	50 Ohm, 15A, Variable wire wound tripple tube with lead screw motion	01

List 5

Specification of Power Electronics Lab			
Sl. No.	Description	Specification	Qty.
1	Single-phase Half Controlled Bridge Converter With R And RL Load	<ul style="list-style-type: none"> • Four isolated gate signals for full bridge converter • Test points are required on the front panel for detailed study of circuit signals • Necessary test points are required at sockets so that the student can Monitor/ measure/ Study the signals using CRO, DVM, etc • One potentiometer to vary the firing angle <p>Power Supply Input 230V +10%, 50Hz single phase AC</p> <p>Power Device Circuits</p> <ul style="list-style-type: none"> • Two nos. of SCRs rated for not less than 10 Amps IA 	01

		<ul style="list-style-type: none"> • Two nos. of power diodes rated for not less than 5Amps • All the G, A, K & MT terminals are terminated on connectors to use patch chords to form any converter / Inverter circuitry <p>Load point is required to be connected.</p> <p>Load</p> <ul style="list-style-type: none"> • R load • L load 	
2	Single-phase Fully Controlled Bridge Converter With R And RL Load	<ul style="list-style-type: none"> • Four isolated gate signals for full bridge converter • Firing angle variable from 180° to 0° through ramp & pedestal control • Test points are to be provided on the front panel for detailed study of circuit signals by the student • One potentiometer to vary the firing angle • Input 230V +10%, 50Hz single phase AC power Supply • Four nos. of SCRs rated to 10 A • One diode for free wheeling • Each device should be provided with # RC Snubber for $d v / d t$ protection • # Fuses to avoid overload • All the G, A, K & MT terminals are terminated on connectors to use patch chords to form any converter / Inverter circuitry • 24V AC @ 2Amp regulated output for low voltage operation • In the low voltage operation the student can see the waveform using an oscilloscope without any Isolation Transformer • All points are terminated at the front panel for wiring for each experiment <p>Load</p> <ul style="list-style-type: none"> • R load • L load 	01
3	Three-phase SCR Half-controlled Converter	<p>This setup must be with units</p> <ol style="list-style-type: none"> 1. Three phase SCR firing circuit 2. Three phase SCR power circuit 3. Load <p>Firing Circuits</p> <ul style="list-style-type: none"> • three phase firing pulse generator • supply synchronization • One number of potentiometer required for firing angle adjustment (180-0°) • One no. toggle switch required for pulse on/off <p>Power Circuit</p> <ul style="list-style-type: none"> • Three no of thyristors with snubber and heat sink with three diode • Three number of banana connector required for three phase ac input. • Two number of banana connector required for external load connection. • One number of fuse required at dc output side for 	02

		<p>over load protection.</p> <p>Load</p> <ul style="list-style-type: none"> • R load • L load 	
4	Three-phase SCR Fully Controlled Converter	<p>This setup must be with units</p> <ol style="list-style-type: none"> 1. Three phase SCR firing circuit 2. Three phase SCR power circuit 3. Load <p>Firing Circuits</p> <ul style="list-style-type: none"> • three phase firing pulse generator • supply synchronization • One number of potentiometer required for firing angle adjustment (180-0°) • One no. toggle switch required for pulse on/off <p>Power Circuit</p> <ul style="list-style-type: none"> • Six no of thyristors with snubber and heat sink • Three number of banana connector required for three phase ac input. • Two number of banana connector required for external load connection. • One number of fuse required at dc output side for over load protection. • Six number of pulse socket to be provided for SCR gate pulse input <p>Load</p> <p>required at 24 AC range</p> <ul style="list-style-type: none"> • R load • L load 	02
5	Forced Commutation Circuits (Class A, Class B, Class C, Class D & Class E) Commutation (Chopper) Circuit Module	<p>Different types of commutation</p> <ul style="list-style-type: none"> # Class A - Load Commutation # Class B - Resonant Pulse Commutation # Class C - Complementary Commutation # Class D - Impulse or Auxiliary SCR commutation # Class F - Line or natural Commutation can be studied by using this module. <p>Chopper Firing Circuit</p> <p>This module require to generate 2 isolated gate signals for 2 SCRs and housed in a sleek box with Circuit mimic diagram Screen printed in the front panel for easy study of students.</p> <p>2 isolated gate signals for 2 SCRs</p> <ul style="list-style-type: none"> * Isolation through pulse transformer * Provision to vary the duty cycle ratio from 10% to 90% * Two switch required to release in developed by the gate signals to the Two SCRs Circuit <p>Mimic diagram is Screen printed on front panel.</p> <ul style="list-style-type: none"> * To be housed in a sleek cabinet <p>Test points are required on the front panel for detailed study of circuit signals by the student.</p> <p>Necessary test points are terminated at sockets so that the student can monitor / measure / study the signals using CRO, DVM, etc.</p>	02

		<p>Power Device Circuit</p> <ul style="list-style-type: none"> • Two nos. of SCRs rated for upto 600Volts – VAK & upto 12Amps • One no. of power diodes rated for 600V & 4Amps • Each device required with protection fuse and snubber • All the G, A, K & MT terminals are terminated on connectors to use patch chords to form Any converter / Inverter circuitry • Inductance: 120 microH @ 1Amp • Commutation capacitor • Used for various commutation circuits in chopper circuit • Load point 	
6	Voltage Commutation Chopper Circuit Module	<p>CHOPPER FIRING CIRCUIT This module need to generate 2 isolated gate signals for 2 SCRs and housed in a sleek box with circuit mimic diagram Screen printed in the front panel for easy study of students.</p> <ul style="list-style-type: none"> • 2 Isolated gate signals for 2 SCRs • Isolation through pulse transformer • Provision to vary the duty cycle ratio • Circuit mimic diagram is required to be screen printed on front panel • Test points are required on the front panel for detailed study of circuit signals by the student <p>POWER DEVICE CIRCUIT</p> <ul style="list-style-type: none"> • Two nos. of SCRs rated for up to 10-12 Amps • Appropriate inductor, Capacitor and diode has to be provided • Each device required with protection fuse and snubber • Firing pulses to be given to devices gate by patch chords • One load point with load 	02
7	Single Phase Cyclo converter With R And RL Load	<p>A. Firing Control Circuit</p> <ul style="list-style-type: none"> • 4 synchronized firing pulses to trigger SCRs • Input 230V +10%, 50Hz single phase AC • Potentiometer required to vary the firing angle • Test points are required to study SCR control pulses <p>B. SCR POWER CIRCUIT</p> <ul style="list-style-type: none"> • Four thyristors are required • SCR Rating may be up to 10 A • Heat sink and snubber circuits to be provided • All SCR points are to be terminated at sockets for easy wiring by patch cords • Facilities are to be provided for switching ON and OFF, the AC supply to the converter circuit with fuse protection. • 230V AC for power circuit module • Reset switch required • Load point of banana socket required 	01

8	Power Electronics Trainer for Development	<ul style="list-style-type: none"> • DC Power Supply: +5 V, -5 V 500 mA, +12V, -12 V 500 mA, +15 V, 250 mA, • +35V, -35V, 250 mA, 15 V variable DC. • AC Power Supply:- 230 Vac Mains, 15V-0V-15Vac, 18V-0V18Vac , 30-0-30 VAC. • Duty cycle and frequency control of G1, G2, G3 and G4 : For Chopper and inverter • On board gate driver circuit, the mode for chopper and inverter can be selected by using selector switch, Duty cycle can be adjusted for the chopper as well as the frequency and for inverter frequency can be adjusted. • Firing angle control of G1, G2, G3 and G4: Firing angle to be adjusted for half wave & full wave rectifiers. • Cycloconverter:- Cycloconverter gate signals 25 Hz, 12.5 Hz , 6.25 Hz • Zero crossing detection test point is also required on board. • On board SCR lamp flasher circuit. • High frequency carrier generator:- A high frequency square wave signal is required on board with test points. It is used with multiplier section to make cycloconverter, chopper and Inverter 30000 02 60000 gate output signals should be compatible with pulse amplifier. • PWM module:- DC motor speed control using PWM and MOSFET • SCR Assembly:- 4 SCRs 2P4M, 400V/2A • Power Devices:- appropriate devices required, it may be IGBT-G4BC20S, MOSFET-IRFZ44N, UJT2N2646, DIAC-DB3, TRIAC-T136, PUT-2N6027. • Pulse transformer on board:- PT4502 1:1, PT4503 1:1:1 • On board active and passive components:- Electrolytic Capacitor 1uF, 10uF • Ceramic Capacitor 0.33uF • Op-Amp 741 IC • Diode, Inductor • Inductor 220uH, 4.7uH,10mH, 100uH Resistances- 10K/10W, 1K/1W, • 1K/10W, 120E/5W, 2.2K/2W, • Pulse Amplifier:- Use to amplify gate driver signals for rectifiers, cycloconverters choppers and inverters. • Bread boards:- 2 nos. • On board Test Points. Block diagram printed on board 	01
9	Dc-Dc (Buck-boost) Converter with Load	<p>It should be consist of</p> <ol style="list-style-type: none"> a. Buck-boost converter PWM control circuit. b. Buck-boost converter power circuit. c. 0-30v dc power supply for power converter input. 	02

		<p>A. firing circuits</p> <ul style="list-style-type: none"> • One number of dpdt switch required for buck-boost mode selection • One number potentiometer required for set voltage adjustment • One number of pulse socket required for feed back voltage-interface • One number of pulse socket required for PWM output- interface • Varies test points required for wave form measurement • Circuit diagram should be printed in the front panel PCB • One number of power on/off switch with indicator <p>B. BUCK-BOOST CONVERTER POWER CIRCUIT</p> <ul style="list-style-type: none"> • power MOSFET required for power device • High speed opto required for MOSFET PWM isolation • One number of high-frequency inductor and capacitor and diode required for power circuit • One number of pulse socket required for PWM input • Provisions for current waveform measurement • Banana connectors required for power circuit input and outputs • Fuse required for output side for over load protections • 0-30 V dc supply • One number of potentiometer required for output voltage variation • One number of led display required for o/p voltage / current measurement 	
10	Three-phase Cycloconverter with Load	<ul style="list-style-type: none"> • Synchronized gate pulses are required to all thyristors • Required for different frequency control • Also for voltage control • Required change in firing angle • should be housed in screen printed cabinet • Input and output connections to be done by banana socket • Load point required • All Test points are required for firing circuit and load voltage and current waveform • Appropriate load required • Fuse and protection circuit is required 	01

FORMAT OF COMPLIANCE STATEMENT

Para of Tender Enquiry Specification	Specification of Equipment Offered	Compliance to Tender specification whether yes or no (if yes indicate the page no and Put a Flag also highlight the matching specification)	In case of noncompliance deviation from Tender specification to be indicated in unambiguous term.
01	02	03	04

* The compliance certificate along with the page no indication (i.e. required spec and availability of the page in the entire tender documents by flagging or giving page no) must be submitted with the bid for evaluation. Firm not submitting the model/spec and their details availability in the bid documents by flagging/page no may not be considered for evaluation.

NOTE: The bid documents are not transferable and the firm's seal and signature of the authorized official must appear on all papers and envelopes submitted.

INSTRUCTION TO BIDDERS:

Two/Double Bids:-

- 01.** In case of two-bid system, tenders will have to be submitted in TWO PARTS i.e. (a) Technical Bid and (b) Price Bid, in two separate properly sealed covers indicating the type of Bid; and both these covers will have to be again put in to a single sealed cover. Also the address of the firm submitting the tender and the officer, to whom the tender is addressed, must appear distinctly on both the inner sealed covers, indicating also TECHNICAL BID / PRICE BID as may be applicable.
- 02. In the part relating to Technical Bid, the OEM/Vendor must provide the followings:-**
- (a) Details of the technical features of the offered Equipment vis-à-vis specification as per Annexure – I;
 - (b) Standard Technical literature on each of the items offered; the article on offer should conform to standard quality, specification and test of manufacturer;
 - (c) Dealership certificate on the offered products from OEM in case of dealer/s;
 - (d) List of reputed organizations/Institutions, where similar orders have been executed (copies of the purchase/work order will have to be enclosed). The bidders/ OEM should attach a self declaration stating that he is not banned / debarred from working with any Central Government / PSU / State Govt of India / Any other Govt. Agencies or any Institute of National / International importance.
 - (e) GST registration certificate indicating also the TIN number
 - (f) Copy of PAN must be submitted of FIRM / Bidder along with the Technical Bid;
 - (g) **Banker's details** of tendering FIRM / Bidder should be clearly mentioned;
 - (h) Details of nature and maximum period of **Warranty** offered by the OEM/Bidder;
- 03. In the part relating to Price Bid, the OEM/Vendor must provide the following:-**
- (a) Quantity, basic price (against item-wise details of specifications of each of the offered items);
 - (b) Prices of each of the optional accessories, as required by specifications and may be relevant for offered Equipment, will have to be specifically stated in the quotation;
 - (c) Central / Sales Tax/ GST (as percentage of basic price + packing & forwarding charges if any)
 - (d) Installation & commissioning charge (including Service Tax), to be shown item- wise extra, if any.
 - (e) Freight & insurance charge, if any.

Terms & Conditions:-

01. **Rates:** Rates quoted should be on F.O.R., NIT Patna, on Door Delivery basis mentioning all taxes/break-up separately.
02. **Validity:** Quoted rates must valid for 180 days.
03. **Warranty/Guarantee:** The material must be quoted with a minimum comprehensive Warranty / Guarantee period of 12 months after the date of delivery and acceptance at final destination. After sales service and contact details of resource person for this should be mentioned.
04. **Delivery:** Unless otherwise stated delivery of goods at NIT Patna, will have to be maximum within 30 days from the date of receipt of the Purchase Order. All aspects of safe delivery shall be the exclusive responsibility of the OEM / Bidder.
05. **Printed conditions of supply of the firm, if any, will not be binding on us.**
06. **Late and delayed Tenders:** Late and delayed tender will not be considered. In case any unscheduled holiday occurs on prescribed closing/opening date the next working day shall be the prescribed date of closing/opening.
07. **Ground for Rejection of Tender:** The tenders are liable to be rejected if the fore going conditions are not complied with. The tender should be complete in all respects and duly signed wherever required. Incomplete and unsigned offer will not be accepted.
08. **Payment Terms:-** 100% payment against proforma invoice will be released after receiving of stores in good order and condition and successful installation and commissioning duly certified by the concern authority.
09. **TDS** as applicable will be deducted from bill.
10. **Entry Tax:** Entry tax, if applicable will be borne by us as applicable on FOR NITP value. The vendor may arrange Road Permit on their own and get it reimbursed from the Institute on production of valid document. Road permit once issued will not change / altered in any circumstances. If any alteration is required due to fault from vendor/OEM side the same will be debited to supplier's A/c
11. **Liquidated Damage:** If a firm accepts an order and fails to execute the order in full as per the terms and conditions stipulated therein, it will be open to this institute to recover liquidated damages from the firm at the rate of 1% per week of the order value subject to a maximum of 10% of the order value. It will also be open to this institute alternatively, to arrange procurement of the required stores from any other source at the risk and expense of the firm, which accepted the order but failed to execute the order according to stipulated agreed upon.
12. **Termination for default:** Default is said to have occurred:-

- (a) If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by NIT Patna.
- (b) If the supplier fails to perform any other obligation(s) under the contract
- (c) If the vendor, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of the default notice from NIT Patna (or takes longer period in spite of what NIT Patna may authorize in writing), NIT Patna may terminate the contract / purchase order in completely or in part. In addition to above, NIT Patna may at its discretion also take the following actions: NIT Patna may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate NIT Patna for any extra expenditure involved towards goods and services to complete the scope of.

13. Applicable Law:

- (a) The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/processing.
 - (b) All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Patna, India only.
 - (c) Any dispute arising out of this purchase shall be referred to the Registrar NIT Patna, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Director of the Institute. The decision of such Arbitrator shall be final and binding on both the parties.
14. The acceptance of the quotation will rest solely with the Registrar, NIT Patna, who in the interest of the Institute is not bound 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 reasons.
15. Installation and training- The Company must provide free training and demonstration of equipment after installation at NIT Patna.
16. The Tender shall be evaluated on items wise quoted Price for the items mentioned in this document.
17. **Important:** - The Director may accept or reject any or all the bids in part or in full without assigning any reason and doesn't bind himself to accept the lower bid. The institute at its discretion may change the quantity / upgrade the criteria / drop any item or thereof at any time before placing the Purchase Order.

Registrar

TENDER FORMAT FOR PRICE BID

Tender No: NITP/Proc./20-21/01

Dated: 16/06/2020

SI No.	Description of Item & Model	Quantity	Unit Price	GST	Total Price

Delivery Mode: F.O.R. Patna.

Total bid price should be inclusive of Sales Tax, F.O.R. NIT Patna for the above quoted items is ₹

Delivery Period:

Packaging & Freight

etc.:

Validity Date: Minimum 180 days from the date of opening of tender.

Any other terms and conditions.

Place:

Date:

Signature: _____

Name: _____

Business Address: _____

Email _____

Contact No: _____

Affix Rubber Stamp

For Any Enquiry

Please

Contact: The

Registrar NIT

Patna

Email: registrar@nitp.ac.in



NATIONAL INSTITUTE OF TECHNOLOGY PATNA
(An Institution of National Importance under MHRD, Govt. of India)
ASHOK RAJPATH, PATNA-800 005 (BIHAR)

TECHNICAL BID (CHECK-LIST) - QUALIFYING CRITERIA

Sl. No.	Essential Document	Document attached (Yes/No)	Page No.
1	Registration/Recognition certificate of the firm from the Govt. Agency. Proof of address of the firm should also be attached.		
2	GST Registration Certificate		
3	Copy of PAN of FIRM / Bidder		
4	Details of the technical features of the offered Equipment vis-à-vis specification as per Annexure – I (b)		
5	Rates: Rates quoted should be on F.O.R., NIT Patna, on Door Delivery basis mentioning all taxes/break-up separately		
6	Details of nature and maximum period of Warranty offered by the OEM/Bidder		
7	Standard Technical literature on each of the items offered; the article on offer should conform to standard quality, specification and test of manufacturer		
8	Dealership certificate on the offered products from OEM in case of dealer/s		
9	List of reputed organizations/Institutions, where similar orders have been executed (copies of the purchase/work order will have to be enclosed). The bidders / OEM should attach a self-declaration stating that he is not banned / debarred from working with any Central Government / PSU / State Govt. of India / Any other Govt. Agencies or any Institute of National / International importance		
10	Banker's details of tendering FIRM / Bidder		
11	Remarks		

Bidders should submit the above essential document. Any shortfall of document will leads to disqualification in technical evaluation. The financial bid will be opened to those bidders who qualify in technical evaluation.

(Signature of Tenderer)
Name & Designation
Place:
Dated: