

Sealed quotations are invited from reputed manufacturer/authorized dealers/registered suppliers affixing non refundable court fee stamp of Rs 8.25 in **2 (two) bids (Technical bid & financial/Price bid)** for supply of **Laboratory Equipments** to North Lakhimpur College (Autonomous) under FIST programme of the Department of Science & Technology (DST), Government of India.

Quotations have to be submitted **on or before 03/02/2020**. No quotation will be accepted after the due date. The undersigned has the right of placing order depending on quality of items and accepting subsequent negotiated rate. Concerned Tender Papers will be available from **18/01/2020 to 03/02/2020 (10 am to 4 pm)**. The papers may also be downloaded from the college website and submitted along with DD of the requisite fee. The fee may also be deposited in specified bank account and the receipt is to be submitted along with the tender papers.

For further details contact: **9435086753/ 8638972506** or the office of the undersigned during office hours

The details of the materials to be supplied is as follows:

Sl No	Project ID	Name of Supply Materials	Token Earnest money (Refundable)	Cost of Tender paper (Non-refundable)	Cost of Tender Value
1	SR/FST/College-356/2018	Laboratory Equipments	@2%	Rs 500/	Rs 31,68,000.00

(Dr. Biman Ch. Chetia)
Principal

ANNEXURE-A

Equipments to be purchased under DST-FIST project 2018:

A. List of the Research Equipments

Sl. No.	Name of the Research Equipments	Specifications	No of units	Rate per unit (in INR)	
				In figures	
01	PC Based Fluorescence Spectrophotometer	<ul style="list-style-type: none">• Wavelength Range: 200 to 900 nm• Wavelength Accuracy: +/- 1 nm• Light Source: 150W Xenon Lamp• Scanning Speed: Up to 60000 nm/min• Enhanced sensitivity and dynamic range enable fluorescence as well as bioluminescence, chemiluminescence, and electroluminescence measurements• High-speed 3D scanning enables rapid acquisition of 3D spectra• Advanced functions like Fluorescence quantum yield and Fluorescence quantum efficiency measurements are available• Spectrum Correction Function helps to calculate corrected Excitation/Emission Spectrum• Long life Xenon light source and wide range detector offer long life and stable results• Easy to use Lab Solutions RF software simplifies analysis with validation function as standard• Large sample compartment to meet all analytical needs• Comply with FDA 21 CFR, Part 11 regulations with network compatibility	01		

02	Advanced Binocular Microscope	<ul style="list-style-type: none"> • Eyepiece: WH 10x • Head: 30 deg Binocular & Sidentopf • Stage: Hard-Coated & Low Drive Mechanical • Illumination: 1W & 3W LED • Zoom: Object: 4x, 10x, 40x & 100x(oil) Plan • Accessories: Fluorescence Attachment <ul style="list-style-type: none"> ▪ Trinocular Head ▪ Rackless Stage ▪ Phase Contrast Attachment ▪ Polarization Attachment ▪ Darkfield Attachment ▪ Kohler Attachment ▪ USB digital Camera • Condenser: 1.25 Abbe, Rack & Pinion, Iris • With Double layer Mechanical stage and USB Digital Camera with LCD display. 	01	
03	Electrophoresis Set	<ul style="list-style-type: none"> • Tank with cooling base and lid with power leads and connectors • Tube gel module • Ten capillary glass tubes • Ten blanking stoppers • Extraction platform • Casting base unit • Four notched glass plates • Four plain glass plates • Gel running module • Two 1.5 mm combs (sample slot + reference well) • Two 1.5 mm spacer sets • One pack of spacer aligners 	01	
04	Rotary Flask Shaker	<ul style="list-style-type: none"> • 20- 250 rpm • Power supply- 220-230V, 50-60Hz • Holding capacity: 25X100/250/500 ml • Rpm meter 	01	

05	Microwave Test Bench	<ul style="list-style-type: none"> • Frequency: 50 Hz • Material: Metal • Horn antenna, Microwave rotating bench • Co-axial to wave guide adapter, field strength meter (all in C-band) • A selection of wave-guide components • The power supply for the microwave source • A detector • A meter, which monitors the detector output • Wall Chart • Microwave Chart 	01	
06	UV-VIS Spectrophotometer	<ul style="list-style-type: none"> • Wavelength Range : 195 nm- 1020 nm • Type : Fixed, Non Portable • Display : LCD Display • Band width : 2 nm • Data Output Port : RS 232 • Detector : Silicon Photodiode • Lamps: Tungston Halogen Lamp & D2 Lamp • Path Length : 10 mm • Optical system : CT grating monochromator • Display modes : 4 LCD • Wavelength accuracy : +/- 2nm • Spectral Bandwidth : 2 nm • Wavelength repeatability : 1 nm • Stray light : Less than = 0.3 % T @220 nm • Photometric accuracy : +/- 0.5% T • Photometric repeatability : 0.2% T • Stability : +/- 0.004 A/h @500nm • Work Pattern : T,A,C • Display area : 0- 200%T,-0.3 -3A 	01	

I/ We agree to supply the above goods in accordance with Technical specifications for a total contract price of Rs. (in figures) / (in words) within the period specified in the NIT.

We also confirm that the normal commercial warrantee/ guarantee of months shall apply to the offered items (if applicable).

SIGNATURE OF BIDDER:

NAME & DESIGNATION:

NAME & ADDRESS OF THE FIRM:

B. List of the Teaching Equipments

Sl.	Name of the	Specifications	No of	Rate per unit
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No .	Teaching Equipments		Units	In figures
01	Distilled water Plant	<ul style="list-style-type: none"> • Glass type • Dist. Water output: 1.5L/hr • Power: 230-250V • Single phase 1.5X2 kw • Quartz heater • Cooling water requirement: 2L/min 	02	
02	Magnetic Stirrer with hot plate	<ul style="list-style-type: none"> • Capacity: 2 Litres • Heating capacity: 300 • Digital speed indicator 	01	
03	Micropipette Adjustable Volume, Pipette rack, Micropipette tips and EZ tip rack	1) 2 µl to 20 µl Vol.	03	
		2) 20 µl to 200 µl Vol.	03	
		3) 100 µl to 1000 µl Vol.	03	
		4) 0.5 µl to 5 µl Vol.	03	
		5) H/A Style -Rack for 9 Pipette	02	
		6) 20 µl tips	04	
		7) 20 µl EZ tip Rack	02	
		8) 100 µl and above tips	04	
		9) 100 µl EZ tip Rack	02	
04	Digital Balance with LCD	<ul style="list-style-type: none"> • Capacity: 220 gm • Repeatability (SD): 0.1 mg • Minimum display: 0.1mg 	01	

		<ul style="list-style-type: none"> • Linearity: +/- 0.2 mg • Grade –Automatic • Display- LCD 		
05	GPS	<ul style="list-style-type: none"> • Screen size : 3.5 inch • Computer Memory Type • DDR SDRAM • Processor Count: 2 • Colour Screen: Yes 	01	
06	Thin Layer chromatography Apparatus	<ul style="list-style-type: none"> • Spreader (Applicator) made of Aluminum / electroplated brass • Perspex Base size 143 x 26 cm to support 5 glass plates of size • 20 x 20 cm and 2 plates of 20x5 cm • Plate Rack Aluminum for ten 20 x 20 cm plates • Spotting Tern plate perspex • Developing tank with lid • T.L.C. plates set 20 x 20 cm or 20 x 10 cm • Micro-pipette • Scriber for making lines • Glass sprayer with rubber bellow 	05	
07	pH Meter	<ul style="list-style-type: none"> • Range: 0.0 to 14.0 full pH • Auto-calibration & auto-buffer recognition • Automatic temperature compensation • Resolution: 0.1pH • Ph buffer Point: 1pt • Range -1 to 14pH • Small Display with Auto Calibration 	05	
08	Soldering Station	<ul style="list-style-type: none"> • Antistatic safety • Precise temperature control and computerized temperature calibration • LCD display 	01	
09	Universal IC Tester	<ul style="list-style-type: none"> • Tests a wide range of Digital IC's • Can test analog Ic's such as ADC, DAC, Opamp, 555, Transistor Arrays, Analog Switches, Waveform Generator, Line Drivers, • Display: LCD Display. 	01	

10	Oscilloscope Type 2 (Digital Storage Oscilloscope)	<ul style="list-style-type: none"> • Bandwidth:100MHz • No. of channel: 2 • Vertical sensitivity: Minimum 2mV – 10V/cm (Separate control for each channel) • Horizontal sensitivity:- 1nS/div - 50S/div. • Communication Interface: USB, Host& Device 	01	
11	Digital Multimeter	<ul style="list-style-type: none"> • Display: 4½ digit, 22,000 counts, auto/manual range • Frequency:10Hz to 220MHz • Sp. Features: Analog Bar Graph, True RMS, Continuity, diode test, Duty Cycle, hFE, Data Hold, Peak Hold, RS-232C interface. 	03	
12	8085 Training & Development Systems	<ul style="list-style-type: none"> • High performance 8 bit 8085A CPU @ 3 MHz • On Board 40×3/16×2/20×4 LCD interface options • On Board USB interface hardware • 16 K powerful monitors FIRMWARE including all standard commands, codes, functions and utility subroutines Assembler & Dis-assembler. 4 K has been used for system firmware • 8 K user RAM using 6264 with battery backup for sockets using 3.6V Ni-Cd Battery • Three 28 pin sockets provided for memory expansion up to a maximum of 56 K 	02	
13	8086 Training & Development Kit	<ul style="list-style-type: none"> • High performance 16 bit 8086 CPU @ 8 MHz • Onboard 40×2 / 16×2 / 20×4 LCD interface options • Onboard USB interface hardware • Optional socket for 8087-2NDP (C0-Processor) • 8284 Clock Generator • 8288 Bus Controller • 64 KB powerful monitor Firmware in two 27256 EPROMs organized as 16 bit words. Expandable upto 128 KB. Assembler & Dis-Assembler included 	02	

14	Microchip 8051 Development System	<ul style="list-style-type: none"> • RS-232 communication with PC or another microcontroller • Support for Microcontrollers in DIP-14/16/20/28/40 and PLCC-32/44 socket • Four seven-segment digits in multiplex mode. Pull up or Pull down port defining • In-Circuit Debugger on-board • Connectors for GLCD and LCD in 4/8 bit mode • System can be easily configured via clearly marked dip switches. Potentiometer is available for testing AD con 	02	
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I/ We agree to supply the above goods in accordance with Technical specifications for a total contract price of Rs. (in figures) / (in words) within the period specified in the NIT.

We also confirm that the normal commercial warrantee/ guarantee of months shall apply to the offered items (if applicable).

SIGNATURE OF BIDDER:

NAME & DESIGNATION:

NAME & ADDRESS OF THE FIRM:

Notice Inviting Tender

Sealed quotations are invited from reputed manufacturer/authorized dealers/registered suppliers affixing non refundable court fee stamp of Rs 8.25 in **2 (two) bids (Technical bid & financial/Price bid)** for supply of **Laboratory Equipments** to North Lakhimpur College

(Autonomous) under FIST programme of the Department of Science & Technology (DST), Government of India.

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1	SR/FST/College-356/2018	Laboratory Equipments	@2%	Rs 500/	Rs 31,68,000.00

(Dr. Biman Ch. Chetia)
Principal

ELIGIBILITY CRITERIA

1. The supplier should have at least 3 years experience of similar works /supply.
2. The bidder should be either Original Equipment Manufacturer (O.E.M) or Authorized Dealer (Please submit manufacturer's authorization letter on the O.E.M's letter head duly signed by authorized signatory) or Govt. Regd. Supplier.

3. The bidder's firm must be incorporated and registered in India under the Indian Companies Act/Societies Registration Act/Trust Act/ any other Act or any Govt. Regd. firm doing similar work and should be in operations in India for minimum 5 years.
4. The bidders should have average annual financial turnover of Rs. 50.00 Lakhs during the last three years (Please submit income tax return certificate for the last three years).
5. The bidders should have experience of having successfully completed supply of similar nature of job in State/Central Govt./PSUs during the last year (Please submit attested copies of work order at least Rs. 5.00 Lakhs or equivalent to Tender Value (Single order)/ Completion Certificate).
6. Self declaration that the bidder has not been barred by any PSU/Govt. Dept in doing business with them.
7. The bidders should have valid GST registration Certificate with up to date Return (as applicable) with PAN, GST, I.Tax, Trade License and other credential for works done.

TERMS AND CONDITIONS

1. The college reserves the right to accept or rejects any or all the bids without assigning any reason thereof.
2. No extra cost will be borne by the college.
3. Payment will be made in favour of the selected bidder as per General Financial Rules 2017 guidelines on successful completion of the works and observations of necessary formalities as the authority deems fit from time to time.
4. Tender papers have to be collected from office of the undersigned within stipulated dates as mentioned on showing necessary documents and payment of non- refundable tender paper fees in cash or in the form of DD in favour of Principal, North Lakhimpur College (Autonomous) payable at North Lakhimpur, Assam. (the papers may also be downloaded from the college website and submitted along with DD of the requisite fee or may be deposited in the specified account)
4. Any supplementary work (if necessary) will be allowed on written order from the office of the undersigned in consultation with the Project Implementation Group and payment for the same will be made as per with the quoted rate.
5. The supplier shall enter into a formal contract with the college within three days from the date of receipt of intimation of their selection. They shall further get prior approval of the draft copy of the agreement from the College.
6. The suppliers should submit their quotes as per prescribed format. Any deviation from the said format will attract rejection of the bid without any further communication.
7. Acceptance of lowest tender is not obligatory and the undersigned reserves the right to accept or reject any or all the tenders without assigning any reason what so ever and also to split up the tendered work to more than one supplier in the interest of scheme of execution.
8. Since the entire work will be financed from FIST programme Grant, payment will be made as and when the fund is available.
9. Application for tender must include attested certificate copy of valid GST, I.Tax, P.Tax, Trade License, PAN Card and credentials for works done.
10. No advance payment will be made. Payment will be made only after successful completion of works and receipt of the materials in good conditions.

11. If the quality of works and supply of materials is found unsatisfactory then the order will automatically stand cancelled.
12. Tax will be deducted at source as per Government norms.
13. The selected bidder must make an agreement with the college authority for Onsite Warranty on all the lab equipments as per company norms.
14. The list of item may change (either increase or decrease) depending on the availability of fund as well as requirement.
15. In case of lab equipments the supplier must supply branded items mentioning the brand name of the company, wherever necessary.
16. In the event of any kind of holiday the quotations shall be opened on the next working day of the college.
17. The rate should be quoted in figures as well as in words.
18. The **equipments** token earnest money at the rate of **2%** of total amount will be collected from the successful Bidder and the amount has to be deposited in favour of Principal, North Lakhimpur College (Autonomous), North Lakhimpur, Assam payable at North Lakhimpur, Assam.
19. In case of supply of Laboratory Equipments **Performance Security Deposit @ 5%** of total amount will be collected from the successful bidder and the same will be refunded after completion of **1 (one)** year.
20. Eligible bidders may be present at the time of opening of financial tender.

IMPORTANT DATES

BID REFERENCE

Date of issue of Tender documents
 Closing date and time for submission of bids
 Date, time & place of opening the bidding documents

Date and Time

18/01/2020 to 03/02/2020
 03/02/2020 up to 4.00 PM
 18/01/2020 at 12.00 noon

Office of the Principal
 North Lakhimpur College (Autonomous)

INSTRUCTION TO BIDDERS

BIDDER TO BEAR COST OF PURCHASE OF TENDER DOCUMENT

1. The Bidder shall bear all the costs associated with the preparation and submission of the bid. The purchaser in any case will not be responsible or liable for these costs regardless of the conduct of the bidding process.
2. The persons deployed by the Supplier should have requisite educational qualification, experience and skills for carrying out the assigned maintenance task using appropriate materials and tools/equipments.
3. The supplier should ensure that health and safety of the deployed staff is ensured by providing the best available safety gear/s to meet the highest standards of safety & health of his deployed staff. They should ensure regular medical check-up of their workers.
4. The supplier will be responsible for supply/installation/refilling/maintenance of all such materials/chemicals/items/equipments/machineries, etc used in various facilities of the College.

AMENDMENT OF BID DOCUMENTS

- i) At any time prior to the date of submission of bids, the purchaser may for any reason modify the Bid documents.
- ii) The amendment, if any will be notified on the College Website www.nlc.ac.in. Bidders are advised to visit the website for updates on this tender.

Extension of Time

In order to give required time to the prospective Bidders in which to take the amendments into action in preparing their bid, the purchaser may at its direction extend the deadline for submission of bid suitably.

BID PRICE

Prices should be inclusive of all taxes and duties. No claim whatsoever on the bid price will be entertained subsequently due to wrong quoting of tax or rate of any tax. The prices quoted by the bidder shall remain firm during the entire period of the contract and shall not be subject to variation on any account.

VALIDITY OF THE BID

Bid shall remain valid for 120 days after the date of technical and Financial Bid opening. The bid valid for a shorter period shall be rejected by the purchaser as non responsive.

SIGNING OF THE BID

- i) The original copy of the bid shall be signed by the bidder or a person duly authorized by the bidder. In case of authorization the Authorization should be in the shape of an affidavit.
- ii) All pages of the original bid shall be initiated by the person signing the bid. The bid shall contain no interlineations, erasures or overwritten. In case of corrections, the person signing the bid shall give initial against each correction.

DEADLINE FOR SUBMISSION OF BID

Bid must be received by the purchaser at the address specified and not later than the date and time specified in the NIT. Any Bid received late by the purchaser shall be rejected automatically.

MODIFICATION AND WITHDRAWAL OF BIDS

No modifications of Bid shall be allowed unless there is any amendment made by the purchasers. The bidder may withdraw Bid with an application addressed to the Principal, North Lakhimpur College, North Lakhimpur. Once withdrawn, the same bidder must not Bid for the second time. Such Bids, if received, will be rejected.

SUBMISSION OF BID

Separate Bids for Lab Equipment is to be submitted in two Bid form comprising of:

1) Technical Bid : a) Documents containing eligibility criteria
b) Other documentation
c) Earnest Money @2% of the Tendered Value
d) Money Receipt of Purchasing Tender Document

2) Financial/ Price Bid : Financial Bid should contain the Price Bid Schedule Supplying & Installation including all taxes & FOR
Annexure A: List of Lab Equipments

The bid documents are to be sealed.

N.B: The Financial Bids of only those Suppliers who qualify in technical bid evaluation by the concerned committee shall be opened. The financial bids of all those Suppliers who have failed to qualify in the technical bid will not be opened under any circumstances.

EARNEST MONEY (EM)

EM @ 2% of total values for lab Equipments is to be submitted with Technical Bid in terms of Bank Draft drawn in favour of Principal, North Lakhimpur College (Autonomous), North Lakhimpur.

A single sealed envelope containing the two envelopes:

- 1) Technical Bid Containing eligibility Criteria/Bank Draft of 2% EM
- 2) Financial/ Price Bid containing rates of items including all taxes and FOR shall be addressed to the Purchaser at the following address:

To,

The Principal, North Lakhimpur College (Autonomous), Khelmati, North Lakhimpur, Assam-787031

- The Envelops should be properly scribed **“TENDER FOR SUPPLY & INSTALLATION OF LABORATORY EQUIPMENTS”**.
- The tender Box shall be sealed at the stipulated deadline for submission.
- The tender Box shall be opened at the stipulated time.
- The inner and outer envelops shall indicate the name and address of the Bidders to identify the Bid and to enable the bid to be returned unopened in case it is declared late or rejected.
- Bids submitted not in the manner prescribed are liable to be summarily rejected which will be the sole discretion of the Authority.

PAYMENT AUTHORITY

i) Principal, North Lakhimpur College (Autonomous), Khelmati, North Lakhimpur, Assam, PIN-787031

ii) Payment will be made only through PFMS Mode. No other mode of payment is allowed.

iii) Earnest Money (EM) will be refunded immediately to those Bidders who are not selected & after 6 months from the date of supply and installation to those who are selected without interest. EMD shall be refunded to the successful supplier on receipt of **Performance Security Deposit**.

DELIVERY SCHEDULE:

Within 21 days from the date of issue of work order.

DISPUTES

In case of any disputes that may arise, North Lakhimpur shall be the jurisdiction.

PRE- BID VISIT TO THE COLLEGE PREMISES:

The Suppliers will be permitted to have a pre-bid visit to the College (only on the specified days as contained elsewhere in this notification) to enable them to have a realistic idea of the type & extent of the facilities which they are required to service. PLEASE NOTE THAT EXCEPT ON THE DESIGNATED DAYS, VISIT TO THE FACILITIES WILL NOT BE ALLOWED TO ANY PERSON UNDER ANY CIRCUMSTANCES. BASED ON THEIR VISIT & THE PRE-BID CONFERENCE WITH THE AUTHORITY, THE SUPPLIERS SHOULD SUBMIT THEIR QUOTES IN THE FOLLOWING FORMAT. ANY DEVIATION FROM THE SAID FORMAT WILL ATTRACT REJECTION OF THE BID WITHOUT ANY FURTHER COMMUNICATION.

PRE-BID VISIT SCHEDULE:

1. Date of Pre- bid visit: 13/12/2019 (Time: 10.00.A.M to 1.00 PM)

(Dr. Biman Ch. Chetia)
Principal

NORTH LAKHIMPUR COLLEGE (AUTONOMOUS)

Details regarding Tender Papers Issue

1. Name of the Account: SECURITY FUND, NORTH LAKHIMPUR COLLEGE (A)
2. Name of the Bank: AXIS BANK
3. Branch: North Lakhimpur Branch

4. Address of Bank: Khelmati, North Lakhimpur, Assam- 787031
5. Account No.: 918020066150635
6. IFSC Code: UTIB0000752
7. MICR Code : 787211002

Cost of Tender Papers:

1. Supply & Installation of Laboratory Equipments (Rs 500/)

Date of Collection of Tender Papers from 04/12/2019-18/12/2019

Last Date Submission 18/12/2019 Upto 4 P.M.

Address of the Institution: North Lakhimpur College, North Lakhimpur
P.O: Khelmati
Dist: Lakhimpur, Assam
PIN: 787031

Email (o) nlcollege.autonomous@gmail.com

Mobile: 9435086753/ 8638972506

Website: www.nlc.ac.in

Note:

1. The cost of tender papers is Rs 500/. The tender papers can either be downloaded from the college website or hard copy may be collected from the College during office hours after depositing Rs 500/.
2. The payment Receipt can be sent through email/ whatsapp in the above mentioned mobile nos. incase of downloaded forms.
3. After transfer or deposit of the tender paper cost, the concerned bidder must inform the College Authorities about their details (in the given format below) in the above mentioned Email ID or Phone No.
4. The cost of Tender Papers shall have to be deposited to the above mentioned Bank A/C, in the form of DD or cash in the College Office.
5. The Earnest Money @2% shall have to be deposited along with the Tender Papers by Demand Draft only in favour of Principal, North Lakhimpur College, North Lakhimpur.
6. Sealed Tenders Papers shall have to be submitted physically in the College Office.

Name & Address of the Manufacturer /authorized dealer/registered supplier.	For Which (item) tender will be submitted. Pl. indicated the serial number.	Amount deposited for Tender Paper	Transaction no./ref no. with date	Contact Details (Email & Whatsapp No.)

	Supply and installation of Lab equipments	500/		
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(Dr. Biman Ch. Chetia)
Principal

DECLARATION

I.....

son/daughter of Sri/ Smti

Proprietor /Partner/ Director/ Authorized Signatory

of.....,
am competent to sign this declaration and execute this tender document. I have carefully read and understood all the terms and conditions of the tender and hereby convey my acceptance of the same.

The information/document furnished along with the above application are true and authentic to the best of my knowledge and belief. I/We am/are well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.

Signature of authorized person

Date:

Full Name:

Place:

Company's seal

N.B: The above declaration, duly signed and sealed by the authorized signatory of the company should be enclosed with Technical tender.

North Lakhimpur College (Autonomous)

Money Receipt

Sl. No.

Date:

Received with thanks from Sri/ Smti.....
the sum of Rs..... (Rupees..... only)
in cash/ by Cheque/Demand Draft No..... Dated..... against
the cost of Tender Paper for supply and Installation of Laboratory Equipments under
FIST programme of DST, GoI.

Signature of PIG

Signature of
Collector

Details of Equipments to be supplied

Equipments to be purchased under DST-FIST project 2018:

C. List of the Research Equipments

Sl. No.	Name of the Teaching	Minimum Specifications	No of
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	Equipments		Items
01	Distilled water Plant	<ul style="list-style-type: none"> • Glass type • Dist. Water output: 1.5L/hr • Power: 230-250V • Single phase 1.5X2 kw • Quartz heater • Cooling water requirement: 2L/min 	02
02	Magnetic Stirrer with hot plate	<ul style="list-style-type: none"> • Capacity: 2 Litres • Heating capacity: 300 • Digital speed indicator 	01
03	Micropipette Adjustable Volume, Pipette rack, Micropipette tips and EZ tip rack	1) 2 µl to 20 µl Vol.	03
		2) 20 µl to 200 µl Vol.	03
		3) 100 µl to 1000 µl Vol.	03
		4) 0.5 µl to 5 µl Vol.	03
		5) H/A Style -Rack for 9 Pipette	02
		6) 20 µl tips	04
		7) 20 µl EZ tip Rack	02
		8) 100 µl and above tips	04
		9) 100 µl EZ tip Rack	02
04	Digital Balance with LCD	<ul style="list-style-type: none"> • Capacity: 220 gm • Repeatability (SD): 0.1 mg • Minimum display: 0.1mg • Linearity: +/- 0.2 mg • Grade –Automatic • Display- LCD 	01
05	GPS	<ul style="list-style-type: none"> • Screen size : 3.5 inch • Computer Memory Type • DDR SDRAM • Processor Count: 2 • Colour Screen: Yes 	01
06	Thin Layer chromatography Apparatus	<ul style="list-style-type: none"> • Spreader (Applicator) made of Aluminum / electroplated brass • Perspex Base size 143 x 26 cm to support 5 glass plates of size • 20 x 20 cm and 2 plates of 20x5 cm 	05

		<ul style="list-style-type: none"> • Plate Rack Aluminum for ten 20 x 20 cm plates • Spotting Tern plate perspex • Developing tank with lid • T.L.C. plates set 20 x 20 cm or 20 x 10 cm • Micro-pipette • Scriber for making lines • Glass sprayer with rubber bellow 	
07	pH Meter	<ul style="list-style-type: none"> • Range: 0.0 to 14.0 full pH • Auto-calibration & auto-buffer recognition • Automatic temperature compensation • Resolution: 0.1pH • Ph buffer Point: 1pt • Range -1 to 14pH • Small Display with Auto Calibration 	05
08	Soldering Station	<ul style="list-style-type: none"> • Antistatic safety • Precise temperature control and computerized temperature calibration • LCD display 	02
09	Universal IC Tester	<ul style="list-style-type: none"> • Tests a wide range of Digital IC's • Can test analog Ic's such as ADC, DAC, Opamp, 555, Transistor Arrays, Analog Switches, Waveform Generator, Line Drivers, • Display: LCD Display. 	01
10	Oscilloscope Type 2 (Digital Storage Oscilloscope)	<ul style="list-style-type: none"> • Bandwidth:100MHz • No. of channel: 2 • Vertical sensitivity: Minimum 2mV – 10V/cm (Separate control for each channel) • Horizontal sensitivity:- 1nS/div - 50S/div. • Communication Interface: USB, Host& Device, 	01

11	Digital Multimeter	<ul style="list-style-type: none"> • Display: 4½ digit, 22,000 counts, auto/manual range • Frequency:10Hz to 220MHz • Sp.Features: Analog Bar Graph, True RMS, Continuity, diode test, Duty Cycle, hFE, Data Hold, Peak Hold, RS-232C interface. 	03
12	8085 Training & Development Systems	<ul style="list-style-type: none"> • High performance 8 bit 8085A CPU @ 3 MHz • On Board 40×3/16×2/20×4 LCD interface options • On Board USB interface hardware • 16 K powerful monitors FIRMWARE including all standard commands, codes, functions and utility subroutines Assembler & Dis-assembler. 4 K has been used for system firmware • 8 K user RAM using 6264 with battery backup for sockets using 3.6V Ni-Cd Battery • Three 28 pin sockets provided for memory expansion up to a maximum of 56 K 	02
13	8086 Training & Development Kit	<ul style="list-style-type: none"> • High performance 16 bit 8086 CPU @ 8 MHz • Onboard 40×2 / 16×2 / 20×4 LCD interface options • Onboard USB interface hardware • Optional socket for 8087-2NDP (C0-Processor) • 8284 Clock Generator • 8288 Bus Controller • 64 KB powerful monitor Firmware in two 27256 EPROMs organized as 16 bit words. Expandable upto 128 KB. Assembler & Dis-Assembler included 	02
14	Microchip 8051 Development System	<ul style="list-style-type: none"> • RS-232 communication with PC or another microcontroller • Support for Microcontrollers in DIP-14/16/20/28/40 and PLCC-32/44 socket • Four seven-segment digits in multiplex 	02

		<p>mode. Pull up or Pull down port defining</p> <ul style="list-style-type: none"> • In-Circuit Debugger on-board • Connectors for GLCD and LCD in 4/8 bit mode • System can be easily configured via clearly marked dip switches. <p>Potentiometer is available for testing AD con</p>	
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I/ We agree to supply the above goods in accordance with Technical specifications for a total contract price of Rs. (in figures) / (in words) within the period specified in the NIT.

We also confirm that the normal commercial warrantee/ guarantee of months shall apply to the offered items (if applicable).

SIGNATURE OF BIDDER:

NAME & DESIGNATION:

NAME & ADDRESS OF THE FIRM:

D. List of the Teaching Equipments

Sl. No.	Name of the Teaching Equipments	Minimum Specifications	No of Items
01	Distilled water Plant	<ul style="list-style-type: none"> • Glass type • Dist. Water output: 1.5L/hr • Power: 230-250V • Single phase 1.5X2 kw • Quartz heater • Cooling water requirement: 2L/min 	02
02	Magnetic Stirrer with hot plate	<ul style="list-style-type: none"> • Capacity: 2 Litres • Heating capacity: 300 • Digital speed indicator 	01
03	Micropipette Adjustable Volume, Pipette rack, Micropipette tips and EZ tip rack	1) 2 µl to 20 µl Vol.	03
		2) 20 µl to 200 µl Vol.	03
		3) 100 µl to 1000 µl Vol.	03
		4) 0.5 µl to 5 µl Vol.	03
		5) H/A Style -Rack for 9 Pipette	02
		6) 20 µl tips	04
		7) 20 µl EZ tip Rack	02
		8) 100 µl and above tips	04
		9) 100 µl EZ tip Rack	02
04	Digital Balance with LCD	<ul style="list-style-type: none"> • Capacity: 220 gm • Repeatability (SD): 0.1 mg • Minimum display: 0.1mg • Linearity: +/- 0.2 mg • Grade –Automatic • Display- LCD 	01
05	GPS	<ul style="list-style-type: none"> • Screen size : 3.5 inch • Computer Memory Type • DDR SDRAM • Processor Count: 2 • Colour Screen: Yes 	01

06	Thin Layer chromatography Apparatus	<ul style="list-style-type: none"> • Spreader (Applicator) made of Aluminum / electroplated brass • Perspex Base size 143 x 26 cm to support 5 glass plates of size • 20 x 20 cm and 2 plates of 20x5 cm • Plate Rack Aluminum for ten 20 x 20 cm plates • Spotting Tern plate perspex • Developing tank with lid • T.L.C. plates set 20 x 20 cm or 20 x 10 cm • Micro-pipette • Scriber for making lines • Glass sprayer with rubber bellow 	05
07	pH Meter	<ul style="list-style-type: none"> • Range: 0.0 to 14.0 full pH • Auto-calibration & auto-buffer recognition • Automatic temperature compensation • Resolution: 0.1pH • Ph buffer Point: 1pt • Range -1 to 14pH • Small Display with Auto Calibration 	05
08	Soldering Station	<ul style="list-style-type: none"> • Antistatic safety • Precise temperature control and computerized temperature calibration • LCD display 	02
09	Universal IC Tester	<ul style="list-style-type: none"> • Tests a wide range of Digital IC's • Can test analog Ic's such as ADC, DAC, Opamp, 555, Transistor Arrays, Analog Switches, Waveform Generator, Line Drivers, • Display: LCD Display. 	01
10	Oscilloscope Type 2 (Digital Storage Oscilloscope)	<ul style="list-style-type: none"> • Bandwidth:100MHz • No. of channel: 2 • Vertical sensitivity: Minimum 2mV – 10V/cm (Separate control for each 	01

		<p>channel)</p> <ul style="list-style-type: none"> • Horizontal sensitivity:- 1nS/div - 50S/div. • Communication Interface: USB, Host& Device, 	
11	Digital Multimeter	<ul style="list-style-type: none"> • Display: 4½ digit, 22,000 counts, auto/manual range • Frequency:10Hz to 220MHz • Sp.Features: Analog Bar Graph, True RMS, Continuity, diode test, Duty Cycle, hFE, Data Hold, Peak Hold, RS-232C interface. 	03
12	8085 Training & Development Systems	<ul style="list-style-type: none"> • High performance 8 bit 8085A CPU @ 3 MHz • On Board 40×3/16×2/20×4 LCD interface options • On Board USB interface hardware • 16 K powerful monitors FIRMWARE including all standard commands, codes, functions and utility subroutines Assembler & Dis-assembler. 4 K has been used for system firmware • 8 K user RAM using 6264 with battery backup for sockets using 3.6V Ni-Cd Battery • Three 28 pin sockets provided for memory expansion up to a maximum of 56 K 	02
13	8086 Training & Development Kit	<ul style="list-style-type: none"> • High performance 16 bit 8086 CPU @ 8 MHz • Onboard 40×2 / 16×2 / 20×4 LCD interface options • Onboard USB interface hardware • Optional socket for 8087-2NDP (C0-Processor) • 8284 Clock Generator • 8288 Bus Controller • 64 KB powerful monitor Firmware in two 27256 EPROMs organized as 16 bit words. Expandable upto 128 KB. 	02

		Assembler & Dis-Assembler included	
14	Microchip 8051 Development System	<ul style="list-style-type: none"> • RS-232 communication with PC or another microcontroller • Support for Microcontrollers in DIP-14/16/20/28/40 and PLCC-32/44 socket • Four seven-segment digits in multiplex mode. Pull up or Pull down port defining • In-Circuit Debugger on-board • Connectors for GLCD and LCD in 4/8 bit mode • System can be easily configured via clearly marked dip switches. <p>Potentiometer is available for testing AD con</p>	02

I/ We agree to supply the above goods in accordance with Technical specifications for a total contract price of Rs. (in figures) / (in words) within the period specified in the NIT.

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SIGNATURE OF BIDDER:

NAME & DESIGNATION:

NAME & ADDRESS OF THE FIRM:

Equipments to be purchased under DST-FIST project 2018:

E. List of the Research Equipments

Sl. No.	Name of the Research Equipments	Minimum Specifications	No of Items
01	PC Based Fluorescence Spectrophotometer	<ul style="list-style-type: none">• Wavelength Range: 200 to 900 nm• Wavelength Accuracy: +/- 1 nm• Light Source: 150W Xenon Lamp• Scanning Speed: Up to 60000 nm/min• Enhanced sensitivity and dynamic range enable fluorescence as well as bioluminescence, chemiluminescence, and electroluminescence measurements• High-speed 3D scanning enables rapid acquisition of 3D spectra• Advanced functions like Fluorescence quantum yield and Fluorescence quantum efficiency measurements are available• Spectrum Correction Function helps to calculate corrected Excitation/Emission Spectrum• Long life Xenon light source and wide range detector offer long life and stable results• Easy to use Lab Solutions RF software simplifies analysis with validation function as standard• Large sample compartment to meet all analytical needs• Comply with FDA 21 CFR, Part 11 regulations with network compatibility	01
02	Advanced Binocular Microscope	<ul style="list-style-type: none">• Eyepiece: WH 10x• Head: 30 deg Binocular & Sidentopf• Stage: Hard-Coated & Low Drive Mechanical• Illumination: 1W & 3W LED	01

		<ul style="list-style-type: none"> • Zoom: Object: 4x, 10x, 40x & 100x(oil) Plan • Accessories: Fluorescence Attachment <ul style="list-style-type: none"> ▪ Trinocular Head ▪ Rackless Stage ▪ Phase Contrast Attachment ▪ Polarization Attachment ▪ Darkfield Attachment ▪ Kohler Attachment ▪ USB digital Camera • Condenser: 1.25 Abbe, Rack & Pinion, Iris • With Double layer Mechanical stage and USB Digital Camera with LCD display. 	
03	Electrophoresis Set	<ul style="list-style-type: none"> • Tank with cooling base and lid with power leads and connectors • Tube gel module • Ten capillary glass tubes • Ten blanking stoppers • Extraction platform • Casting base unit • Four notched glass plates • Four plain glass plates • Gel running module • Two 1.5 mm combs (sample slot + reference well) • Two 1.5 mm spacer sets • One pack of spacer aligners 	01
04	Rotary Shaker Flask	<ul style="list-style-type: none"> • 20- 250 rpm • Power supply- 220-230V, 50-60Hz • Holding capacity: 25X100/250/500 ml • Rpm meter 	01
05	Microwave test Bench	<ul style="list-style-type: none"> • Frequency: 50 Hz • Material: Metal • Horn antenna, Microwave rotating bench • Co-axial to wave guide adapter, field strength meter (all in C-band) • A selection of wave-guide components • The power supply for the microwave source • A detector 	01

		<ul style="list-style-type: none"> • A meter, which monitors the detector output • Wall Chart • Microwave Chart 	
06	UV-VIS Spectrophotometer	<ul style="list-style-type: none"> • Wavelength Range : 195 nm- 1020 nm • Type : Fixed, Non Portable • Display : LCD Display • Band width : 2 nm • Data Output Port : RS 232 • Detector : Silicon Photodiode • Lamps: Tungston Halogen Lamp & D2 Lamp • Path Length : 10 mm • Optical system : CT grating monochromator • Display modes : 4 LCD • Wavelength accuracy : +/- 2nm • Spectral Bandwidth : 2 nm • Wavelength repeatability : 1 nm • Stray light : Less than = 0.3 % T @220 nm • Photometric accuracy : +/- 0.5% T • Photometric repeatability : 0.2% T • Stability : +/- 0.004 A/h @500nm • Work Pattern : T,A,C • Display area : 0- 200%T,-0.3 -3A 	01

F. List of the Teaching Equipments

Sl. No.	Name of the Teaching Equipments	Minimum Specifications	No of Items
01	Distilled water Plant	<ul style="list-style-type: none"> • Glass type • Dist. Water output: 1.5L/hr • Power: 230-250V • Single phase 1.5X2 kw • Quartz heater • Cooling water requirement: 2L/min 	02
02	Magnetic Stirrer with hot plate	<ul style="list-style-type: none"> • Capacity: 2 Litres • Heating capacity: 300 • Digital speed indicator 	01
03	Micropipette Adjustable Volume, Pipette rack, Micropipette tips and EZ tip rack	1) 2 μ l to 20 μ l Vol.	03
		2) 20 μ l to 200 μ l Vol.	03
		3) 100 μ l to 1000 μ l Vol.	03
		4) 0.5 μ l to 5 μ l Vol.	03
		5) H/A Style -Rack for 9 Pipette	02
		6) 20 μ l tips	04
		7) 20 μ l EZ tip Rack	02
		8) 100 μ l and above tips	04
		9) 100 μ l EZ tip Rack	02
04	Digital Balance with LCD	<ul style="list-style-type: none"> • Capacity: 220 gm • Repeatability (SD): 0.1 mg • Minimum display: 0.1mg • Linearity: +/- 0.2 mg • Grade –Automatic • Display- LCD 	01
05	GPS	<ul style="list-style-type: none"> • Screen size : 3.5 inch • Computer Memory Type • DDR SDRAM • Processor Count: 2 • Colour Screen: Yes 	01
06	Thin Layer chromatography	<ul style="list-style-type: none"> • Spreader (Applicator) made of Aluminum / electroplated brass 	05

	Apparatus	<ul style="list-style-type: none"> • Perspex Base size 143 x 26 cm to support 5 glass plates of size • 20 x 20 cm and 2 plates of 20x5 cm • Plate Rack Aluminum for ten 20 x 20 cm plates • Spotting Tern plate perspex • Developing tank with lid • T.L.C. plates set 20 x 20 cm or 20 x 10 cm • Micro-pipette • Scriber for making lines • Glass sprayer with rubber bellow 	
07	pH Meter	<ul style="list-style-type: none"> • Range: 0.0 to 14.0 full pH • Auto-calibration & auto-buffer recognition • Automatic temperature compensation • Resolution: 0.1pH • Ph buffer Point: 1pt • Range -1 to 14pH • Small Display with Auto Calibration 	05
08	Soldering Station	<ul style="list-style-type: none"> • Antistatic safety • Precise temperature control and computerized temperature calibration • LCD display 	02
09	Universal IC Tester	<ul style="list-style-type: none"> • Tests a wide range of Digital IC's • Can test analog Ic's such as ADC, DAC, Opamp, 555, Transistor Arrays, Analog Switches, Waveform Generator, Line Drivers, • Display: LCD Display. 	01
10	Oscilloscope Type 2 (Digital Storage Oscilloscope)	<ul style="list-style-type: none"> • Bandwidth: 100MHz • No. of channel: 2 • Vertical sensitivity: Minimum 2mV – 10V/cm (Separate control for each channel) • Horizontal sensitivity:- 1nS/div - 50S/div. • Communication Interface: USB, Host& 	01

		Device,	
11	Digital Multimeter	<ul style="list-style-type: none"> • Display: 4½ digit, 22,000 counts, auto/manual range • Frequency:10Hz to 220MHz • Sp.Features: Analog Bar Graph, True RMS, Continuity, diode test, Duty Cycle, hFE, Data Hold, Peak Hold, RS-232C interface. 	03
12	8085 Training & Development Systems	<ul style="list-style-type: none"> • High performance 8 bit 8085A CPU @ 3 MHz • On Board 40×3/16×2/20×4 LCD interface options • On Board USB interface hardware • 16 K powerful monitors FIRMWARE including all standard commands, codes, functions and utility subroutines Assembler & Dis-assembler. 4 K has been used for system firmware • 8 K user RAM using 6264 with battery backup for sockets using 3.6V Ni-Cd Battery • Three 28 pin sockets provided for memory expansion up to a maximum of 56 K 	02
13	8086 Training & Development Kit	<ul style="list-style-type: none"> • High performance 16 bit 8086 CPU @ 8 MHz • Onboard 40×2 / 16×2 / 20×4 LCD interface options • Onboard USB interface hardware • Optional socket for 8087-2NDP (CO-Processor) • 8284 Clock Generator • 8288 Bus Controller • 64 KB powerful monitor Firmware in two 27256 EPROMs organized as 16 bit words. Expandable upto 128 KB. Assembler & Dis-Assembler included 	02
14	Microchip 8051 Development System	<ul style="list-style-type: none"> • RS-232 communication with PC or another microcontroller 	02

		<ul style="list-style-type: none">• Support for Microcontrollers in DIP-14/16/20/28/40 and PLCC-32/44 socket• Four seven-segment digits in multiplex mode. Pull up or Pull down port defining• In-Circuit Debugger on-board• Connectors for GLCD and LCD in 4/8 bit mode• System can be easily configured via clearly marked dip switches. <p>Potentiometer is available for testing AD con</p>	
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