

**Atal Incubation Centre -Nalanda Institute of Technology Foundation
(AIC-NITF)**



Call for Quotation

(For the supply, installation of Fabrication Lab Equipments and furnishing, interior decoration of Fabrication Lab & Training Sessions at AIC-NITF)

(Reference Number : Proc/AIC-NITF/2020/001)

www.aicnalanda.com



Call for Quotation

1. **Call for Quotation** for the supply, installation of Fabrication Lab equipments and furnishing, interior decoration of Fabrication Lab & Training Sessions:
 - i. Quotation is invited by Atal Incubation Centre-Nalanda Institute of Technology Foundation (AIC-NITF) upto the specified closing date & time from all intending suppliers(s) for the supply, installation of fabrication lab equipments and its furnishing, interior decoration & training sessions at AIC-NITF.
 - ii. The quotation should be in a sealed cover super scribed as: **“Quotation for the supply, installation of Fabrication Lab Equipments and its furnishing, interior decoration & training sessions at AIC-NITF”**.
 - iii. The Technical specifications of the materials are furnished in **Annexure – I**
 - iv. All the quotations shall be sent to:

**The Director
AIC-Nalanda Institute of Technology Foundation
Buddhist Villa, Chandaka, Bhubaneswar, Odisha - 754005**
 - v. The quotation should reach this office on or before 01-09-2020 by 3.00 PM.

**DIRECTOR
AIC-NITF**



Terms and Conditions

01. The rate quoted should be preferably inclusive of all taxes / duties, otherwise the amount of taxes / duties should be mentioned separately, duly specifying the nature of tax / duty with the rate there of.
02. The technical and financial bids should be quoted separately. (See **Annexure I** for the list of equipments and technical specifications).
03. Applicant should not have been blacklisted by the Departments/Ministries of the Govt. of India/State Govt./PSUs/any other organization (A self-declaration has to be submitted).
04. The tenderer/bidder should submit duly filled checklist of technical bid (**Annexure II**) along with supporting documents.
05. The financial bids of those bidders will be considered who qualify under technical bid. The date of opening the financial bids of qualified technical bidders will be informed separately.
06. The supply should be for: AIC-Nalanda Institute of Technology Foundation, Buddhist Villa, Chandaka, Bhubaneswar, Odisha - 754005.
07. The dispatch documents and bill should be forwarded directly to this organization and not through Bank.
08. The prices quoted must include CIF (Cost, Insurance and Freight) charges. The Bidder is responsible for the safe delivered of the stores at our organization. No Insurance Charges will be payable by this organization. Under no circumstances should the items be sent under freight to pay.
09. The prices quoted (Total Value) must be inclusive of all taxes, training/equipment installation, qualification and demonstration, loading and unloading, transport insurance (wherever applicable), transportation charges to deliver the equipment/machine and furnishing, interior designing of the Fabrication Lab & training sessions at AIC-Nalanda Institute of Technology Foundation, Buddhist Villa, Chandaka, Bhubaneswar, Odisha - 754005.
10. All communication should be addressed to: The Director by designation and not by name.
11. Payment will be made by cheque only. The payment schedule will be decided after mutual discussion with the selected successful supplier.
12. Goods not received in good condition and not according to specifications will be outrightly rejected.

13. Manufacturers name and brand etc. should be mentioned in the bill.
14. Delivery period should be mentioned.
15. Quotation received after the due date are liable to be rejected / not considered.

Paper Cost and EMD

The bidder shall furnish **INR 1000** (One thousand only) as bid processing (Tender) fee and as part of the bid, an interest free EARNEST MONEY DEPOSIT (EMD) of amount **INR 5000** (Five Thousand only) in the form of Demand draft / Account payee cheque at par (valid for 90 days) drawn in favour of AIC-Nalanda Institute of Technology Foundation, Buddhist Villa, Chandaka,, Bhubaneswar, Odisha - 754005, payable at Bhubaneswar or through RTGS or NEFT transfer as per details provided below

The EMD of the unsuccessful bidders will be discharged/returned at the earliest after completion of the tender process. The successful bidder's EMD will be discharged upon the bidder's acceptance of the Letter of Intent satisfactorily. The EMD may be forfeited under following circumstances:

- If the bidder withdraws his/her bid during the period of bid validity specified by the bidder in the Bid form;
- In the case of successful bidder, if the bidder fails to sign the contract; or Fails or refuses to honour his/her own quoted price for any of the items or part thereof.
- In both the above cases bidder will not be eligible to participate in the tender for one year from the date of issue of Letter of Intent.

Cheque/DD should be prepared in favour of: **AIC-NIT Foundation (PAN No. AARCA4064G)**

OR

RTGS/NEFT (Bank details):

Company Name: **AIC- Nalanda Institute Of Technology Foundation**
Bank: **HDFC BANK LTD**
A/c No.: **50200048597232**
IFSCode: **HDFC0004491**

// BY ORDER //

Annexure – I

Technical Specification

Sl. no	Equipment Description (Fabrication Lab)	Required for	Technical Specification	Unit
1	3D PRINTERS	PRINT THE 3D CAD MODELS	(1) FDM 3D Printer with build volume 200x200x200, multi material support, resume function after power cut, auto labeling (2) FDM 3D Printer with build volume 500x500x500, multi material support, resume function after power cut, auto labeling	2 Nos.
2	3 IN ONE CNC PLOTTER	FOR 3D PRINTING, CNC CUTTING & LASER CUTTING	Auto labeling, multi material support and auto resume facility	
2	MULTI-METERS	TESTING OF CIRCUITS(MEASURING CURRENT, POTENTIAL DIFFERENCE, AND RESISTOR ETC.)	LCD backlight, 1999 counts Dual slow intergration AD converter, fuse protected, upto 10 AMP, AC-DC support, waterproof	5 Nos.
3	IC TESTER (DIGITAL & ANALOG)	TESTING OF IC'S BOTH ANALOGUE AND DIGITAL	Display 6000 counts, auto scanning, data hold, auto & manual range, digital analog support	3 Nos.
4	DIGITAL OSCILLOSCOPE	TO CHECK OUTPUT OF AN ELECTRIC CIRCUIT	100-200 MHZ, Digital display, sample rate 1 GS per sec, Digital storage capacity, 2 to 4 channel	1 Nos.
5	POWER SUPPLIES	A STABLE SUPPLY TO POWER UP THE INSTRUMENTS IN THE LAB	30 volt 5 amp, adjustable output, digital display	2 Nos.
6	SOLDERING EQUIPMENT	SOLDERING PURPOSE	25 watt, 35 watt and micro soldering	3 Nos.
7	PROBES AND TEST LEADS	ACCESSORIES TO INSTRUMENTS	For AC-DC support	For supporting of equipments
8	PCB PROTOTYPING MACHINE	USED FOR RAPID FABRICATION OF PRINTING CIRCUIT BOARD		1 Nos.
9	VR AND AR SYSTEMS	VIRTUAL REALITY	Oculusrift or Hololens	1 Nos.

10	ELECTROMAGNETIC LOCATION SYSTEM	SUITABLE FOR USE IN FLEXIBLE ROBOTICS FEEDBACK CONTROL	GPS with capability of inhouse navigation	1 Nos.
11	TELEMETRY DEVICES	REMOTE CONTROLLING	2.4 GHZ support, Lora Modules supported	5 Nos.
12	DISPLAY DEVICES	LCD DISPLAY	7-10 Inch display for Raspberry pi, and other dev boards, Touch support, SD support.	5 Nos.
13	DIY LEGO KITS	CONTAIN SOFTWARE AND HARDWARE TO CREATE SMALL CUSTOMIZABLE AND PROGRAMMABLE ROBOTS.	Curated and boxed DIY hardware Kits to meet Rapid prototyping and testing needs, should solve the educational purposes. (Mindstorm Lego not required)	10 Nos.
14	3D SCANNER	TO SCAN 3D OBJECTS AND STORE AS CAD MODELS	Handheld	1 Nos.
15	DIGITAL MICROMETER	PRECISE MEASUREMENT OF SMALL DISTANCE	0.001mm / 0.0005" resolution , Insize Outsize	1 Nos.
16	ACRYLIC BENDING MACHINE	TO SHAPE AND BEND ACRYLIC SHEETS		1 Nos.
17	SOLDERING STATION	FOR SOLDERING-DESOLDERING		1 Nos.
18	LASER CUTTING MACHINE	TO CUT WOOD AND RAW METALS WITH HIGH RESOLUTION		1 Nos.
19	VENYL PLOTTER	FOR CUTTING LETTERS, SHAPES, FIGURES, SIGNS, POSTERS, AND MUCH MORE	24 to 30 Inch, Digital servo drive	1 Nos.
20	INFRARED DISTANCE SENSOR	SENSATION OF DISTANCE FOR LOWER RANGE APPLICATION		20 Nos.
21	LASER RANGER SENSOR	TO MEASURE THE DISTANCE TO HIGHER RANGE		10 Nos.
22	ULTRASONIC SENSORS	FOR APPLICATION LIKE DETECTION OF OBSTACLE AND DISTANCE		20 Nos.
23	PHOTO-RESISTOR	TO DETECT LIGHT		20 Nos.
24	TEMPERATURE SENSOR	DETECTION OF TEMPERATURE		10 Nos.
25	BIOMETRIC SENSOR(VOICE, FINGERPRINT, FACE)	USED IN FINGER PRINT SCANNING, VOICE RECOGNITION AND FACE RECOGNITION		10 Nos.
26	GAS SENSOR	DETECTION OF GASES		20 Nos.
27	TILT SENSORS	TO MEASURE SLOPE AND ANGULAR MOVEMENT		20 Nos.
28	SOUND SENSOR	DETECTION OF SOUND		20 Nos.

29	HUMIDITY SENSOR	TO MEASURE THE HUMIDITY		20 Nos.
30	COLOR SENSOR	RECOGNITION OF COLOR		10 Nos.
31	HALL EFFECT SENSOR	MAGNETIC FIELD SENSOR		20 Nos.
32	PROXIMITY SENSOR	LIGHT DETECTION		20 Nos.
33	FLEX SENSOR	MEASURE OF BENDING		10 Nos.
34	SMOKE SENSORS	SMOKE DETECTION		10 Nos.
35	ECG SENSORS	MEDICAL PURPOSE (ELECTROCARDIOGRAM)		2 Nos.
36	KINECT SENSORS	MOTION SENSING INPUT DEVICES		2 Nos.
37	MQ-4 METHANE	NATURAL GAS SENSOR		10 Nos.
38	MQ-3 ALCOHOL	ETHANOL SENSOR		10 Nos.
39	MQ-7 HIGH SENSITIVITY	CO CARBON MONOXIDE SENSOR DETECTOR		10 Nos.
40	MQ - 2 SMOKE DETECTION	TO DETECT SMOKES		10 Nos.
41	MQ-135	AIR QUALITY SENSOR		10 Nos.
42	PIR MOTION SENSOR	TO DETECT MOTION		20 Nos.
43	ELECTROSTATIC MOTION SENSOR			10 Nos.
44	PULSE RATE HEART SENSOR			20 Nos.
45	RELAY MODULE			50 Nos.
46	SOIL MOISTURE SENSOR			10 Nos.
47	TOUCH SENSOR			20 Nos.
48	METAL TOUCH SENSOR MODULE			20 Nos.
49	RAIN DROP SENSOR			20 Nos.
50	RFID READER - TAGS			10 Nos.
51	FORCE PRESSURE SENSOR			10 Nos.

52	WATER FLOW SENSOR			10 Nos.
53	RF MODULES TX& RX 315 MHZ ASK			10 Nos.
54	SOUND SENSOR			10 Nos.
55	ZIGBEE MODULE	WIRELESS COMMUNICATION PURPOSE	+10 dBm , Range : 60 mtr indoor, 1200 mtr outdoor, Encryption 128-bit	5 Nos.
56	WI-FI MODULE	WIRELESS COMMUNICATION PURPOSE	Node MCU with dual band support	10 Nos.
57	GSM MODULE	WIRELESS COMMUNICATION PURPOSE	GSM, GPRS ans GPS 3 inn 1 , Sim 300, sim 900	10 Nos.
58	BLUETOOTH MODULE	WIRELESS COMMUNICATION PURPOSE	Bluetooth low energy	20 Nos.
59	RF MODULE	WIRELESS COMMUNICATION PURPOSE	Long range Rf modules	10 Nos.
60	ETHERNET MODULE	WIRELESS COMMUNICATION PURPOSE	Rj 45 slot	10 Nos.
61	ARM CORTEX	GENERAL MICRO-CONTROLLER PURPOSE		5 Nos.
62	ATMEL AVR	GENERAL MICRO-CONTROLLER PURPOSE		5 Nos.
63	PIC 8	GENERAL MICRO-CONTROLLER PURPOSE		5 Nos.
64	ATMEGA 128 MICRO-CONTROLLER+DEVELOPMENT BOARD	GENERAL MICRO-CONTROLLER PURPOSE		5 Nos.
65	ATMEGA 16 MICRO-CONTROLLER + DEVELOPMENT BOARD	GENERAL MICRO-CONTROLLER PURPOSE		5 Nos.
66	ARDUINO UNO ATMEGA328 BOARD	GENERAL MICRO-CONTROLLER PURPOSE		60 Nos.
67	ARDUINO MEGA 2560 BOARD	GENERAL MICRO-CONTROLLER PURPOSE		20 Nos.
68	INTEL EDISON	GENERAL MICRO-PROCESSOR PURPOSE		5 Nos.
69	RASPBERRY PI 3,4	MINI COMPUTER USED FOR MANY PROJECTS		8 Nos.
70	3-AXIS ACCELEROMETER	MEASURING ACCELERATION		10 Nos.
71	GYROSCOPE	DEVICE WHICH MEASURES AND HELPS TO MAINTAIN ORIENTATION		10 Nos.
72	IMU(INERTIAL MEASUREMENT UNIT)	COMBINE PROPERTIES OF TWO OR MORE SENSOR SUCH AS ACCELEROMETER, GYRO,		10 Nos.

		MAGNETOMETER, ETC		
73	RFID READER MODULE	RADIO FREQUENCY IDENTIFICATION		10 Nos.
74	GPS MODULE	GLOBAL POSITIONING SYSTEM, LOCATION IDENTIFICATION		10 Nos.
75	DIGITAL MAGNETIC COMPASS	DIRECTION INDICATOR		10 Nos.
76	ENCODER SENSOR MODULE	USED IN MANY PROJECT		10 Nos.
77	MOTOR DRIVER L298	MODULES TO CONTROLLING OF MOTORS		50 Nos.
78	SERVO MOTOR DRIVER	SERVO MOTOR CONTROLLER		20 Nos.
79	STEPPER MOTOR DRIVER	STEPPER MOTOR CONTROLLER		20 Nos.
80	LCD MODULE FOR ARDUINO	AN LCD DISPLAY FOR ARDUINO		20 Nos.
81	RASPBERRY PI MODULES AND ACCESSORIES	FOR RASPBERRY PI PROJECTS		10 SET
82	MATRIX DISPLAY RGB	FOR MANY PROJECT		10 Nos.
83	SERVO MOTORS	GENERAL PROJECT PURPOSE	Metal Gear, High Torque (Min 6kg), 9Gms Micro servo Metal gears, Control angle :- 180- 270 degree	20 SETS
84	STEPPER MOTORS	GENERAL PROJECT PURPOSE	High Torque, Hybrid Torque in different sizes	20 SETS
85	BLDC MOTOR	GENERAL PROJECT PURPOSE	1200 KV, 1000 KV and 800KV	20 SETS
86	GEARED DC MOTORS(VARIOUS RPM)	GENERAL PROJECT PURPOSE	Metal gears 50 RPM, 100 RPM, 200 RPM	100 Nos.
87	PIEZO MOTORS	GENERAL PROJECT PURPOSE	Dual Shaft , BO motors	50 Nos.
88	HIGH TORQUE MOTORS	GENERAL PROJECT PURPOSE	12-36 Volts, Metal gears, side shaft, Centre Shaft	20 Nos.
89	HUB MOTORS	FOR ELECTRIC VEHICLES	Bruhless Geared HUB, 200Kg carrying capacity, 24 to 36 Volts	2 Nos.
90	MICRO MOTORS	GENERAL PROJECT PURPOSE	3.7 volts to 5 volts, Coreless	20 Nos.
91	GRINDER		600 watt with hand grip	1 No.
92	BAND SAW		Portable and table top, wood or mild metal cutting	1 No.

93	HAND DRILL MACHINE		500 watt	COMPLETE SET
94	RIVETER			50
95	FASTENERS			50
96	ANGLE FINDER			2
97	METER TAPE			2 LARGE SIZE
98	BENCH VICE			2
99	C- CLAMP			2
100	STEEL RULER AND SCALE			COMPLETE SET
101	FILE			COMPLETE SET
102	HOT GLUE GUN			2 PCS AND 100 RODS
103	HACK SAW (DIFFERENT SIZE)			COMPLETE SET
104	TAP AND DIE SET			COMPLETE SET
105	SCREW DRIVER SET			COMPLETE SET
106	BEARINGS			DIFFERENT SIZE BEARINGS
107	PLIERS			COMPLETE SET
108	SPANNER SET			COMPLETE SET
109	PULLEYS			2
110	ADHESIVES			2
111	WHEEL GRIP (PASTABLE)			2 ROLLS
112	VERNIER CALLIPER	FOR INNER & OUTER DIA MEASUREMENT		2
113	ENVIL			2
114	PORTABLE POWER SAW			1
115	SHEET CUTTER			1

112	PLASTIC WHEELS		Different dia motor shaft	50
113	POLY CARBONATE SHEET		2 mm, 3mm, 5mm	10
114	ALLEN KEY SET			COMPLETE SET
115	HINGES			COMPLETE SET
116	DRILL BIT SET			COMPLETE SET
117	CASTORS WHEEL			50
119	MALLET			2
120	SLIDER			2
121	SCISSORS			COMPLETE SET
122	GEARS			COMPLETE SET
123	BELTS	ADJUSTABLE		5
125	MAGNETIC V BLOCK			1
126	HEIGHT GAUGE			1
127	SLIP GAUGE			1
129	VACUUM CLEANER			1
130	HAMMERS			COMPLETE SET
131	STORAGE BOXES	TO STORE POWER TOOLS AND OTHER SMALL USABLE DEVICES		10
132	FLATNESS TESTER	SPIRIT LEVELLER		2
133	PORTABLE WELDING MACHINE	FOR WELDING OPERATIONS	220A (Hot Start) with Wide Voltage Input: 160V-250V, Professional Weld: 1.6 To 5Mm, Electrode Holder: 2M*16Mma, Frequency (Hz): 50/60, Duty cycle: 60% at 220A & 100% at 175.5A, Efficiency: 85%, Can Weld Electrode (ϕ mm): 1.6 to 4.0	1

134	COMPUTER (i7 PROCESSOR)	I7 PROCESSOR WITH 8GB RAM, 17 INCH HD MONITOR, UPS		3
135	SOFTWARES	3D PRINTING, 3D DESIGNING, MS OFFICE, PCB PRINTING & DESIGNING, 3D SCANNING		FOR 3 COMPUTERS

FURNISHING OF LAB ROOM

1	WORK BENCHES	WITH POWER PLUGS & STORAGE		8
2	WALL RACKS	TO STORE COMPONENTS		1
3	ISOLATION ROOM	SOUND ISOLATED	10 FT X 10 FT	1
4	CHAIRS	REVOLVING		10
5	PEG BOARD	FOR STORAGE OF TOOLS	10 FT X 5 FT	1
6	CENTRE WORK BENCH	FOR GENERAL TASKS		1
7	CEILING FAN			4

INTERIORS OF LAB ROOM

We require interactive interiors with sensor based automated lighting to give a feel and look of a truly futuristic technology lab. The room dimensions for the said lab is 25'6" X 37'6" (956.25 Sqft).

TRAININGS & EVENTS

The Tenderer/Supplier will also organize at least 6 training sessions related to the functioning and operations of the Fab Lab equipments/ machines/tools for the use of startups. This shall also include physical or web-based events such as Hackathon, Tech-Focussed Mentorship Sessions, etc.

Annexure II

Format for technical bid of the Tender for AIC-NIT Foundation (Proc/AIC-NITF/2020/001)

Sr. No.	Description of requirement	Enclosed	Enclosure No.
1.	Whether the firm is registered with proprietary firm, Partnership firm, Private Limited Company or LLP	Yes/No	
2.	Declaration by the bidder that he/she/company has not been blacklisted by the Deptts/Ministries of the Govt. of India/State Govt./PSUs	Yes/No	
4.	Copy of Registration Certificate/ Allotment Letter of PAN/ TAN From Income Tax Dept.	Yes/No	
5.	Copy of Registration Certificate Goods and Service Tax.	Yes/No	
6.	Partnership deed, if applicable	Yes/No	
7.	Demand draft / Cheque of Rs 1000/- as Bid processing (Tender) fee (Mention Dispatch details - Date and Mode) OR Through RTGS/NEFT (Mention Transaction details)	Yes/No	
8.	Demand draft / Cheque of Rs 5000/-/- as EMD (Mention Dispatch details - Date and Mode) OR Through RTGS/NEFT (Mention Transaction details)	Yes/No	
9.	Technical specification of the Instrument/machine	Yes /No	
10.	Financial Bid duly filled and attached	Yes/No	

Declaration of the Tenderer

This is to certify that I/we before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

(Signature of Tenderer with seal)

Name:

Place:

Date:

Seal:

Office Address: