

भारतीय प्रौद्योगिकी संस्थान तिरुपति

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Tender No. IITT/CHEM/2022-23/33

07th July 2022.

NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF EQUIPMENT FOR THE CONTROL OF LEVEL VIA FLOWRATE CONTROL AND STIRRED TANK WITH MULTIVARIABLE CONTROL.

(E-PROCUREMENT MODE ONLY)

Indian Institute of Technology Tirupati (IIT Tirupati) invites online bids (e-tender) in Two bid system from eligible Class-I & Class-II in line with Government Public Procurement order No.P-45021/2/2017-BE-II dated: 04.06.2020 for the following:

Item Description	Quantity (approx.)	Tender Fee (Inclusive of all taxes in Rs.)
Item1: Supply, installation, testing and commissioning of Equipment for control of level via flowrate control	01 Unit	1500/-
Item2 : Supply, installation, testing and commissioning of Stirred tank with multivariable Control	01 Unit	
Total		1500/-

"Splitting of items is allowed. Bidders can quote Item1 or Item 2 or both Item 1 and Item2"

The Tender Document can be downloaded from Central Public Procurement (CPP) Portal http://eprocure.gov.in/eprocure/app and bid is to be submitted online only through the same portal up to the last date and time of submission of tender.

Critical Dates of Tender:

1	Date and time of Online Publication/Download of Tenders	07.07.2022	18.00 hrs
2	Bid submission start date & time	07.07.2022	18.00 hrs
3	Bid submission close date & time	27.07.2022	15.00 hrs
4	Closing date & time for submission of Tender fee	27.07.2022	15.00 hrs
5	Opening of Technical bids	28.07.2022	15.00 hrs

1. About IIT TIRUPATI:

Indian Institute of Technology Tirupati (IIT Tirupati) is an Autonomous Institute under Ministry of Education, Govt. of India.

2. Technical Specifications: Schedule of requirement

S.No | Item Description with Specifications

	n1: Technical Specifications for " nipment for Control of Level via I	Supply, Installation & Commissioning of Flowrate Control"	
Obj	jectives of Experiment		
 a tank system. To study cascade control of level This experimental setup should e parameters of digital controllers To study the influence of disturb cascade control. 		d enable us to study the influence of different controllers (P, PI, or PID) on stability. arbance variables on level control, flow control and of the open and closed control loops, and assess the	
#	Item	Specifications	
1	Process Tank	Transparent tank with overflow and graduated	
		scale Volume: 5-10 L Height: 0.4 – 0.7 m	
2	Storage tank		
3	Storage tank Pump	Volume: 5-10 L Height: 0.4 – 0.7 m	
		Volume: 5-10 L Height: 0.4 – 0.7 m 12 - 15 L, Stainless steel Power 90W Max. flow: 85 LPM	
3	Pump Pressure sensor: 0 – 100 mbar	Volume: 5-10 L Height: 0.4 – 0.7 m 12 - 15 L, Stainless steel Power 90W Max. flow: 85 LPM Max. head: 6.5 m	
4	Pump Pressure sensor: 0 – 100 mbar with resolution of 0.1 mbar Rotameter with electrical output: 0 – 600 LPH	Volume: 5-10 L Height: 0.4 – 0.7 m 12 - 15 L, Stainless steel Power 90W Max. flow: 85 LPM Max. head: 6.5 m To measure level	
3 4 5	Pump Pressure sensor: 0 – 100 mbar with resolution of 0.1 mbar Rotameter with electrical output: 0 – 600 LPH with resolution of 1 LPH Electromagnetic proportional	Volume: 5-10 L Height: 0.4 – 0.7 m 12 - 15 L, Stainless steel Power 90W Max. flow: 85 LPM Max. head: 6.5 m To measure level To measure flow rate Suitable specifications For generating disturbances	
3 4 5 6 7 8	Pressure sensor: 0 – 100 mbar with resolution of 0.1 mbar Rotameter with electrical output: 0 – 600 LPH with resolution of 1 LPH Electromagnetic proportional valves Ball valves with scale Digital industrial controllers	Volume: 5-10 L Height: 0.4 – 0.7 m 12 - 15 L, Stainless steel Power 90W Max. flow: 85 LPM Max. head: 6.5 m To measure level To measure flow rate Suitable specifications For generating disturbances 2 Nos; Parameterizable as P, PI or PID controllers	
3 4 5 6	Pressure sensor: 0 – 100 mbar with resolution of 0.1 mbar Rotameter with electrical output: 0 – 600 LPH with resolution of 1 LPH Electromagnetic proportional valves Ball valves with scale Digital industrial controllers Copper pipes	Volume: 5-10 L Height: 0.4 – 0.7 m 12 - 15 L, Stainless steel Power 90W Max. flow: 85 LPM Max. head: 6.5 m To measure level To measure flow rate Suitable specifications For generating disturbances	

	111	Software	 (a) A Windows based software allowing real time data acquisition via USB port includes a mimic diagram of the process, a graphical display of results, and a table of results which can be exported to an external spreadsheet. (b) Fully configurable, multi loop control strategies. (c) Control options must include: Alarm setting Adjustable P, PI & PID controller (d) Full help facilities including a presentation screen to provide a brief overview of the equipment, and detailed texts giving all the
			information required to run the experiments.
	12	Safety features	Automatically stop operation at power failure.
	13	Warranty	3 years or higher from the date of installation at IIT Tirupati
	14	Installation and Training	Free of cost installation and training at IIT Tirupati
	15	Delivery	At Yerpedu Campus, IIT Tirupati.
I —	16	Delivery time	4-8 Weeks from date of raising Purchase order
	17	Necessary Documents	 (a) Catalogue in the original. (b) All technical specifications should be printed on the catalogue. The separate sheet will not be acceptable. (c) The quoted model should be of the latest technique. Please declare the year with proof. (d) Instruction manuals consisting of experimental procedures, block diagrams, sample calculations, etc. must be provided.
	18	Supplier's capability	 (a) Availability of after sales service and support in India. (b) Supplier should compulsorily indicate details of facilities/expertise in India. (c) Factory trained engineer/s & competency should be available in India for complete product support.
	19	Acceptance Criteria	(a) Equipment shall be installed and demonstrated before acceptance at IIT Tirupati.(b) The vendor also needs to do a complete demonstration of the complete setup for its full functionality.
	20	Terms and Conditions	 (a) All mounts, cables, guides, adaptors, assembly and other mandatory accessories must be included and should be scope of delivery. (b) The bidder should provide a point-by-point compliance statement for each item/sub-item/component and the compliance statement must be supported by the authenticated

		documents. Deviation in any component (or subcomponent) must clearly be mentioned. (c) All the supplied hardware components, attachments and software must be capable of yielding high performance of overall system. (d) All the power supply related accessories must be as per Indian standard. (e) Should give complete installation and on-site training of all components, start-up, synchronization and performance verification of equipment. (f) All the required standalone software must be supplied. (g) All the supplied firmware/software and their upgrades to enhance performance, manageability and security must be available online to download free of cost during the warranty period.
21	Optional Items	 (a) The vendor should quote 2 years of additional warranty as a separate quote. (b) Vendors can quote for any other necessary items separately as optional in the sheet no:2 in BoQ. (c) Make and model number of the optional items should be clearly indicated.

02 Item2: Technical Specifications for "Supply, Installation & Commissioning of Stirred Tank with Multivariable Control"

Objectives of the Experiment:

- (a) To study the multivariable control of level and temperature.
- (b) To study the level control with 1) PI controller and 2) feedforward control.
- (c) To study the temperature control with 1) two-point controller, 2) three-point controller (split range), 3) override control and 4) via motorised valve with position feedback.

Technical Specifications

- 1. The experimental set up should be capable of studying the coupled level and temperature control in a stirred tank.
- 2. The setup must have a stirred tank with a double jacket and heater.
- 3. The setup must display level measurements of tank and jacket.
- 4. The experimental set up should have a heat exchanger for heat recovery
- 5. The setup must be capable of temperature control with heater and 3-way motorized valve as actuator.
- 6. The setup must be capable of level control with a pneumatic control valve as actuator.
- 7. The temperature controller and level controller must be configurable and parameterisable with a windows based software.
- 8. The software must be supplied along with the experimental setup.

- 9. The setup should be capable of a two-point controller for constant temperature in cooling tank via external cooling water.
- 10. The vendor should provide the complete setup for the multivariable control of a stirred tank with all necessary parts/ accessories/ connectors as indicated below and any other parts for its full functionality to study coupled control of level and temperature.
- 11. The minimum requirements of the instrument and monitoring system must consist of the equipment/ instruments/ accessories as indicated below.
- 12. Improved features can be considered with regard to the specifications as indicated.

#	Items	Specifications	
1	Tanks	Stirred tank: 12 - 15L	
		collecting tank: 60 - 80 L	
2	Pumps	2 no.s	
		max. flow rate: approx. 65L/min	
		max. head: approx. 25m	
3	Heat exchanger	Heat transfer surface: 0.7-0.9 m ²	
4	Heater	power output: approx. 2kW	
5	Digital Industrial Controllers	2 Nos, Parametrizable as P, PI and PID controllers	
6	Measuring ranges	flow rate: 60600L/h	
		temperature: 0100°C	
		level: 01000mm	
7	Valve	3-way motorised valve opening: 0100%	
8	Software	(a) A Windows based software allowing real time	
		data acquisition via USB port includes a mimic	
		diagram of the process, a graphical display of	
		results, and a table of results which can be	
		exported to an external spreadsheet.	
		(b) Fully configurable, multi loop control strategies.	
		(c) Control options must include:	
		Alarm setting	
		 Adjustable P, PI & PID controller 	
		(d) Full help facilities including a presentation screen	
		to provide a brief overview of the equipment, and	
		detailed texts giving all the information required	
		to run the experiments.	
9	Safety features	Automatically stop operation at power failure.	
10	Warranty	3 years or higher from the date of installation at IIT Tirupati	
11	Installation and Training	Free of cost installation and training at IIT Tirupati	
12	Delivery	At Yerpedu Campus, IIT Tirupati.	
13	Delivery time	4-8 Weeks from date of raising Purchase order	
14	Necessary Documents	(a) Catalogue in the original. (b) All technical englishes should be printed on the	
		(b) All technical specifications should be printed on the catalogue. The separate sheet will not be acceptable.	
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		(c) The quoted model should be of the latest technique.
		Please declare the year with proof.
		(d) Instruction manuals consisting of experimental
		procedures, block diagrams, sample calculations, etc.
		must be provided.
15	Supplier's capability	(a) Availability of after sales service and support in India.
		(b) Supplier should compulsorily indicate details of
		facilities/expertise in India.
		(c) Factory trained engineer/s & competency should be
		available in India for complete product support.
16	Acceptance Criteria	(a) Equipment shall be installed and demonstrated before
		acceptance at IIT Tirupati.
		(b) The vendor also needs to do a complete demonstration
		of the complete setup for its full functionality.
17	Terms and Conditions	(a) All mounts, cables, guides, adaptors, assembly and
		other mandatory accessories must be included and
		should be scope of delivery.
		(b) The bidder should provide a point-by-point
		compliance statement for each item/sub-
		item/component and the compliance statement must be
		supported by the authenticated documents. Deviation
		in any component (or subcomponent) must clearly be
		mentioned.
		(c) All the supplied hardware components, attachments
		and software must be capable of yielding high
		performance of overall system.
		(d) All the power supply related accessories must be as
		per Indian standard. (a) Should give complete installation and on site training
		(e) Should give complete installation and on-site training
		of all components, start-up, synchronization and performance verification of equipment.
		(f) All the required standalone software must be supplied.
		(g) All the supplied firmware/software and their upgrades
		to enhance performance, manageability and security
		must be available online to download free of cost
		during the warranty period.
18	Optional Items	(a) The vendor should quote 2 years of additional
	- Parama Italia	warranty as a separate quote.
		(b) Vendors can quote for any other necessary items
		separately as optional in the Sheet no.2 of BoQ.
		(c) Make and model number of the optional items should
		be clearly indicated.
3. Spares a	nd service availability: Min	imum 5 Years should be provided for both the items

3. Spares and service availability: **Minimum 5 Years should be provided for both the items**

"Splitting of items is allowed. Bidders can quote Item1 or Item 2 or both Item 1 and Item2"

- All offered products technical Specifications and Brochures are to be submitted along with the Technical Bid.
- The detailed scope of coverage of Warranty shall be provided in the compliance statement -Annexure-VII.

- The Bidder shall furnish, as part of its bid, documents establishing the conformity of the Equipment that the Bidder proposes to supply under the Contract to the requirements of the Purchaser, as given in the Tender Document.
- The documentary evidence of conformity of the Equipment to the Tender Document may be in the form of written descriptions supported by Brochure / literature / diagrams / certifications, including: (a) A detailed description of the essential technical, functional and performance characteristics of the Equipment that the Bidder is proposing to supply; (b) Technical details of the major subsystems/components of the Equipment.

3. TENDER FEE & BID SECURITY DECLARATION DETAILS:

- **3.1 Tender Fee of Rs.1500/- (Rupees fifteen hundred only)** should be submitted through ECS (Bank transfer / NEFT / RTGS) in favour of <u>Indian Institute of Technology Tirupati</u>.
- 3.2 Bank A/c Details for crediting Tender Fee:

Name : Indian institute of Technology Tirupati Main Account

Bank : State Bank of India

Account No : 35523338208 IFSC Code : SBIN0006677

3.3 Tender Fee and Bid Security Exemption:

I) Micro and Small Enterprises (MSEs):

Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) for goods produced and services rendered, are exempted from Tender fee and Bid Security. However, they have to enclose valid self-attested registration certificate(s) along with the tender to this effect.

Accordingly, MSEs shall be required to submit valid **Udyam Registration Certificate** for availing benefit under MSE Procurement Policy.

The benefit as above to MSEs shall be available only for Goods produced and services rendered by MSEs. However, traders are excluded from the purview of MSE Procurement Policy.

II) Startup(s):

Startup(s) as recognized by **Department for Promotion of Industry and Internal Trade (DPIIT)**, Govt. of India, are exempted from Tender fee and Bid Security. However, they have to enclose *valid self-attested registration certificate(s)* along with the tender to this effect.

Eligible MSE and startup bidders who seeks exemption from Tender fee/Bid Security as per clause no. (c) above, if they withdraw or modify their bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document, they will be suspended for the period of three years or as decided by the competent authority from being eligible to submit bids for contracts with the entity that invited the bids.

- 3.4 The Bidders will have to upload scanned copy of Payment details towards tender fee and the same will be accepted only on verification and confirmation by the Institute. Any delay in credit will not be entertained by the Institute. (As per the format attached in Annexure I)
- 3.5 Other than eligible MSE and Startup bidders, Bid Security Declaration:

Bidders should have to submit the Bid Security Declaration (As per the format attached in annexure-II) in duly filled and signed condition.

4. ELIGIBILITY CRITERIA

4.1 Other Important Documents (OIDs)

Firm Incorporation Certificate, PAN details, GST details are to be provided.

4.2. Statutory Documents:

- I) The Bidder should give self-declaration certificate for acceptance of all terms & conditions of tender documents. A duly completed certificate to this effect is to be submitted as per the Annexure-I.
- II) The firm should not be in the active debarred list by any Central / State Government / Public Undertaking / Institute and no criminal case registered / pending against the firm or its owner / partners anywhere in India. A duly completed certificate to this effect is to be submitted as per Annexure-III.

III) Experience and Past Performance:

The Supplier should have supplied a minimum of 2 similar systems to other CFTI institutes like IIT or IISER in last 3 years i.e. during 2017-18 to 2019-20 or 2018-19 to 2020-21 in India and Vendor should provide satisfactory installation certificates with product details as proof with customer contacts email and phone number as per the Annexure-IV for both the items.

IV) The Annual Turnover should be at least Rs. 10 Lakhs for both the items and be profitable during each of the previous three financial years i.e. during 2017-18 to

2019-20 or 2018-19 to 2020-21. Audited financial Statements or Financial Statements showing turnover duly signed by a Chartered Accountant are to be submitted as per the **Annexure-V**.

V) In case the bidder is a <u>Class-I / Class-II</u> in line with the Public Procurement (Preference to Make in India) Order 2017 No. P-45021/2/2017-PP (BE-II) dated 04 Jun 2020 as amended from time to time. A Self-Declaration Certificate regarding "Class-I/Class-II Supplier" for the tendered items as per the Annexure-VI is to be submitted.

As per the OM of Department of Promotion for Industry and Internal Trade No. P-45021/102/2019-BE-II-Part(1) dated: 04.03.2021. The bidders can't claim themselves as Class-I local suppliers/Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

- a. 'Local Content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.
- b. 'Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50% as defined under this order.
- c. 'Class-II local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has minimum local content of 20% but less than 50%, as defined under this order.
- d. 'Non-local supplier'means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%, as defined under this order.
- e. Complaint redressal mechanism: In case any complaint received by the procuring agency or the concerned Ministry/Department against the claim of a bidder regarding local content/domestic value addition in an electronic product, the same shall be referred to STQC.
- f. The bidder shall be required to furnish the necessary documentation in support of the domestic value addition claimed in an electronic product to STQC. If no information is furnished by the bidder, such laboratories may take further necessary action, to establish the bonafides of the claim.
- g. A complaint fee of Rs. 2 lakh or 1% of the value of the domestically manufactured products being procured (subject to a maximum of Rs.5 lakh), whichever is higher, to be paid by Demand Draft to be deposited with STQC. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

- h. False declarations will be in breach of the Code of Integrity under Rule 175 (1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.
- VI) The bidder should be OEM or OEM authorized Dealers / Channel partners / Distributors of reputed brand having authorization for sales and after sales support. Valid OEM authorization letter is required to participate in this tender.

VII) Prior Registration and / or Screening of bidders:

Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder registered with the competent authority. The concerned bidder(s) are required to attach the relevant valid Registration Certificate along with the bid for consideration.

"Bidder" (including the term 'tenderer', consultant or service provider in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

"Bidder from a country which shares a land border with India" for the purpose of this Order means :-

- An entity incorporated, established or registered in such a country; or
- A subsidiary of an entity incorporated, established or registered in such a country or
- An entity substantially controlled through entities incorporated, established or registered in such a country; or
- An entity whose beneficial owner is situated in such a country; or
- An Indian (or other) agent of such an entity; or
- A natural person who is a citizen of such a country; or
- A consortium of joint venture where any member of the consortium or joint venture falls under any of the above.

The detailed terms & conditions issued from time to time in this regard by Government of India will be applicable.

VIII) Authorized Representatives:

Bids of bidders quoting as authorised representative of a principal manufacturer would also be considered to be qualified, provided:

(i) Their principal manufacturer meets all the criteria above without exemption, and

ii) The principal manufacturer furnishes a legally enforceable tender-specific authorisation assuring full guarantee and s obligations as per the general and special conditions of contract;

and

iii) The bidder himself should have been associated, as authorised representative of the Principal Manufacturer for same set of services as in present bid (supply, installation, satisfactorily commissioning, after sales service as the case may be) for same or similar item for past three years ending on bid opening date.

4.3 TECHNICAL CRITERIA

Bidders should comply the specification of the tendered item in all respect. The detailed format is attached at Annexure-VII. The bidder is to complete the same in all respect and submit accordingly

5. FINANCIAL BID DETAILS

- 5.1 Financial bid i.e. BOQ given with tender (in **Excel format**) to be downloaded first and uploaded after filling all relevant information strictly as per the format failing which the offer is liable for rejection. Kindly quote your offer on FOR IIT Tirupati (inclusive of all taxes and charges). **Vendor should quote prices in BOQ only, offers indicating rates anywhere else shall be liable for rejection.**
 - 5.2 Concessional Custom Duty / Concessional GST is applicable to IIT Tirupati as a Research Institution. Necessary Certificate to this effect shall be provided by IIT Tirupati to the supplier.

6. TIME SCHEDULE:

S. No.	Particulars	Date	Time
a.	Date of Online Publication of Tender	07.07.2022	18.00 hrs
b.	Bid Submission Start Date	07.07.2022	18.00 hrs
c.	Bid Submission Close Date	27.07.2022	15.00 hrs
d.	Closing Date & Time for Submission of EMD & Tender Fee	27.07.2022	15.00 hrs
e.	Opening of Technical Bids	28.07.2022	15.00 hrs

7. AVAILABILITY OF TENDER

The tender document can be downloaded from http://eprocure.gov.in/eprocure/app and be submitted only through the same website.

8. BID VALIDITY PERIOD

The bid will remain valid for 120 days from the date of opening as prescribed by IIT Tirupati. A bid valid for a shorter period shall be rejected, being non-responsive.

9. BID SUBMISSION

9.1 Instruction to Bidder

- I) Bidders are required to enrol on the e-Procurement module of the **Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app)** by clicking on the link "**Online Bidder Enrolment**" on the CPP Portal. **The registration is completely free of charge**.
- II) Possession of a valid Class II/III DSC in the form of smart card / e-token is a prerequisite for registration and participating in the bid submission activities. DSCs can be obtained from the authorised certifying agencies recognized by CCA India (e.g. Sify/TCS/nCode/eMudhra etc).
- III) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- IV) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- V) The Bidders are required to log in to the site through the secured log-in by entering their respective user ID / password and the password of the DSC.
- VI) The CPP portal also has user manuals with detailed guidelines on enrolment and participation in the online bidding process. The user manuals can be downloaded for reference.

9.2 TENDER CLARIFICATION

- I) In case the bidders require any clarification regarding the tender documents, they are requested to contact our office Ph. no: 0877-2503572, Email ID: purchase@iittp.ac.in on or before due date.
- II) Technical and Specifications related Clarifications contact our office No: 7558183597 Email ID: nabil@iittp.ac.in on or before due date.
- III) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

9.3 ONLINE BID SUBMISSION PROCEDURE

Cover-1: The file should be saved in a PDF version numbered sequentially and should comprise of the following items:

Packet-1:

Duly Completed Scanned PDF copy of, PAN, GST, Firm Registration certificate and Annexure-I to VIII with relevant supporting documents

Only the relevant documents as per the tender clauses are to be uploaded along with duly completed checklist as per the annexure-IX. Uploading of other than the required documents may liable for rejection of the bid.

Cover-2:

A standard BOQ format has been provided in excel format. Bidders are required to download the BOQ excel file and fill their financial offer on the same BOQ format. After filling the same, submit it online in excel format, without changing the financial template format.

Note:

If the bid is incomplete and / or non-responsive it will be rejected during technical evaluation. The bidder may not be approached for clarifications during the technical evaluation. So, the bidders are requested to ensure that they provide all necessary details in the submitted bids.

10. BID OPENING

- 10.1 Technical Bids will be opened on **28.07.2022** @ **15.00 Hrs.**
- 10.2 Financial Bids of the eligible bidders will be opened on a later date. The date and time for opening of Financial Bids will be announced later.
- 10.3 Bids should be summarily rejected, if tender is submitted other than through online or original tender fee/Bid security declaration are not submitted within stipulated date / time.

11. BID EVALUATION

Based on results of the Technical evaluation IIT Tirupati evaluates the Commercial Bid of those Bidders who gets qualify in the Technical evaluation. <u>The Commercial Bid with the lowest price</u> will be the highest evaluated bid.

11.1 Purchase Preference

I) Micro and Small Enterprises (MSEs):

Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) for goods produced and services rendered, may be provided following purchase preference:

Item wise Quantity	Price Quoted by MSE	How the tender shall be finalized
Cannot be split	L1	Full Order on MSE
Cannot be split	Not L1 but within L1 +	Full Order on MSE subject to matching L1
_	15%	Price

II) Preference to Make in India

- a) In procurement goods or works which are covered under by para 3(b) of the extant Public Procurement (Preference to Make in India) Order 2017 dated 04 June 2020 and which are **divisible** in nature, the "Class-I Local Supplier" shall get purchase preference over "Class-II Local Supplier" as well as "Non-Local Supplier" as per following procedure:
 - i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is "Class-I Local Supplier", the contract for full quantity will be awarded to L1.
 - ii) If L1 bid is not a "Class-I Local Supplier", 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the "Class-I Local Supplier" will be invited to match L1 price for the remaining 50% quantity subject to the Class-I Local Supplier's quoted price falling within the margin of L1 + 20%, and contract for that quantity shall be awarded to such "Class-I Local Supplier" subject to matching the L1 price. In case such lowest eligible "Class-I Local Supplier" fails to match L1 price or accepts less than the offered quantity, the next higher "Class-I Local Supplier" within the margin of L1 + 20% shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such quantity may be ordered on the L1 bidder.
- b) In procurement goods or works which are covered under by para 3(b) of the extant Public Procurement (Preference to Make in India) Order 2017 dated 04 June 2020 and which are **not divisible** in nature, and in procurement of services where the bid is evaluated on price alone, the "Class-I Local Supplier" shall get purchase preference over "Class-II Local Supplier" as well as "Non-Local Supplier" as per following procedure:
 - i) Among all qualified bids, the lowest bid will be termed as L1.

If L1 is "Class-I Local Supplier", the contract will be awarded to L1.

ii) **If L1 is not a** "Class-I Local Supplier", the lowest bidder among the Class-I Local Supplier, will be invited to match the L1 price subject to Class-I Local Supplier's quoted price falling within

the margin of L1 + 20%, the contract shall be awarded to such Class-I Supplier subject to matching the L1 price.

- iii)In case such lowest eligible Class-I Local Supplier fails to match the L1 price, the "Class-I Local Supplier" with the next higher bid within the margin of L1 + 20% shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the of Class-I Local Supplier within the margin of L1 + 20%, the contract may be awarded to the L1 bidder.
- iv) Class-II Local Supplier will not get purchase preference.

12. PAYMENT TERMS

No advance payment will be made in any case. Bills in Duplicate should be sent and the payment shall be released generally within 30 days, only after it is ensured that the items / quality of the items supplied are to the entire satisfaction of IIT Tirupati and completed the entire work within the stipulated delivery schedule. If any item is found defective, or not of the desired quality etc., the same should be replaced by the firm(s) immediately for which no extra payment shall be made.

13. WARRANTY OF QUALITY AND QUANTITY

13.1 The awardee shall give Minimum **3 years' on-site warranty for both the items** from the date of installation on successful completion of supply, and acceptance of supplied items

Two years' Additional warranty after completion of standard warranty for both the items should be quoted separately as an optional in the BoQ.

- 13.2 The awardee shall give warranty that all items are as per specification(s), conforming to the specified design and there are no defects in the process of manufacturing, packaging, transportation and delivery.
- 13.3 Upon receipt of notice from IIT Tirupati for defective material, the firm shall **within**15 days of receipt of the notice, replace the defective material, free of cost at the destination. The firm shall take over the defective material at the time of their replacement. No claim whatsoever shall lie on IIT Tirupati for the replaced goods thereafter. If the firm fails to replace the defective goods within a reasonable period, IIT Tirupati may proceed to take such remedial actions as may be necessary, at the company's risk and expense.

14. LIQUIDATED DAMAGES

In case of delay in Supply by the stipulated date, IIT Tirupati reserves the right of imposing penalty @0.5% per week or part thereof on the value of the undelivered items subject to maximum 10% of the cost of undelivered items.

15. DELIVERY SCHEDULE

15.1 The successful bidder should execute the order successfully i.e. Supply, Installation of ordered item within 4-8 weeks for both the items at IIT Tirupati transit campus, Venkatagiri Road, Yerpedu Post, Tirupati, Chittoor District from the date of issue of the purchase order. In case of any damage/Broken/Expired items found, the item(s) should be replaced within 15 days at IIT Tirupati. The bidder has to make own arrangement for unloading and positioning of items at the desired location of IIT Tirupati.

16. PERFORMANCE SECURITY DETAILS

- 16.1 The successful tenderer will have to deposit the performance security valid for 39 Months for both the items in the form of DD / TDR / FDR / Bank Guarantee @03% of the total order value at the earliest from the date of issue of the award letter. No interest will be paid by IIT Tirupati on the deposit.
- Performance Security will be refunded to the supplier, after it duly performs and completes the contract/warranty period in all respects.
- 16.3 Performance Security will be forfeited if the firm fails to perform/abide by any of the terms or conditions of the contract.
- In case, the firm fails to execute the order successfully, within specified delivery period, the same goods/items will be procured from open market and the difference of cost, if any, will be recovered from Performance Security or from pending bill(s) of the defaulting firm or from both in case the recoverable amount exceeds the amount of Performance Security.

17. TERMS AND CONDITIONS

17.1 Termination for Insolvency

- The IIT Tirupati may at any time terminate the Contract by giving a written notice to the awarding firm, without compensation to the firm, if the firm becomes bankrupt or otherwise insolvent as declared by the competent Court, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the department.
- II) IIT Tirupati and/or the firm are entitled to withdraw/cancel the rate contract by serving one-month notice on each other. However, once a purchase order is placed on the supplier for supply of a definite quantity in terms of the rate

- contract during the validity of the rate contract, that purchase order becomes a valid and binding contract.
- III) The courts of Tirupati alone will have the jurisdiction to try any matter, dispute or reference between the parties arising out of this purchase. It is specifically agreed that no court outside and other than Tirupati Court shall have jurisdiction in the matter

17.2 Force Majeure

- Should any force majeure circumstances arise, each of the contracting parties be excused for the non-fulfilment or for the delayed fulfilment of any of its contractual obligations, if the affected party within 15 days of its occurrence informs in a written form the other party.
- II) Force Majeure shall mean fire, flood, natural disaster or other acts such as war, turmoil, sabotage, explosions, epidemics, quarantine restriction, strikes, and lockouts i.e. beyond the control of either party.

17.3 Arbitration

I) All disputes of any kind arising out in connection with the executing the order shall be referred by either party (IIT TIRUPATI or the bidder) after issuance of 30 days' notice in writing to the other party clearly mentioning the nature of dispute to a single arbitrator acceptable to both the parties. The venue for arbitration shall be IIT TIRUPATI India. The jurisdiction of the courts shall be Tirupati, Andhra Pradesh, India.

17.4 Other Conditions

- I) The bidder has to upload the relevant & readable files only as indicated in the tender documents. In case of any irrelevant or non-readable files, the bid may be rejected.
- II) IIT Tirupati will not be liable for any obligation or supplies made unless the Official Purchase Order has been placed by the Purchase Department.
- III) IIT Tirupati reserves the right to accept or reject any or all the tenders in part or in full or may cancel the tender, without assigning any reason thereof.
- IV) IIT Tirupati reserves the right to relax / amend / withdraw any of the terms and conditions contained in the Tender Document without assigning any reason thereof. Any inquiry after submission of the quotation will not be entertained.
- V) IIT Tirupati reserves the right to modify/change/delete/add any further terms and conditions prior to issue of purchase order.
- VI) In case the bidders/successful bidder(s) are found in breach of any condition(s) at any stage of the tender, Performance Security shall be forfeited.
- VII)False declaration/documents will be in breach of the Code of Integrity under Rule 175(1) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the

- General Financial Rules along with such other actions as may be permissible under law.
- VIII) Repeat Order: IIT Tirupati reserves the right to place repeat order up to 100% of the quantities within a period of 12 months from the date of successful completion of purchase order at the same rates and terms subject to the condition that there is no downward trend in prices.
 - To take care of any change in the requirement during the currency of the contract, a plus/minus option clause for 25 per cent is incorporated in the tender document, reserving purchaser's right to increase or decrease the quantity of the required goods up to that limit without any change in the terms and conditions and prices quoted by the tenderers.
- IX) Conditional tenders will not be considered in any case.
- X) In case of doubt in material, the expenditure on testing of equipment will be borne by the tenderer.
- XI) Institute reserve the right to increase/decrease the order quantity at any period of times during the validity of the contract.
- XII) IIT Tirupati may issue amendment/corrigendum to tender documents before due date of submission of bid. Any amendment/corrigendum to the tender document if any, issued by IIT Tirupati will be posted on CPP Portal. For the bidders, submitting bids on downloaded tender document, it is 'bidders' responsibility to check for any amendment/corrigendum on the website of IIT Tirupati or check for the same CPP Portal before submitting their duly completed bids.

UNDERTAKING

То

The Registrar,

Indian Institute of Technology Tirupati-Renigunta Road, Settipalli post, Tirupati 517506.

Tender No. IITT/CHEM/2022-23/33 dated: 07.07.2022.

Name of the Tender/Supply: Notice Inviting Tender for Supply, installation, testing and Commissioning of Equipment for the control of level via flowrate control and Stirred tank with multivariable Control.

Sir,

I /we hereby submit our bid for Supply, installation, testing and Commissioning of Equipment for the control of level via flowrate control and Stirred tank with multivariable Control.

I/ We enclosed here with the following in favor of Indian Institute of Technology Tirupati towards Tender Fee.

Particular	Amount	Payment Reference Details	Payment Date
Tender Fee (Including Tax)	1500/-		

- 1. I / We hereby reconfirm and declare that I / We have carefully read, understood & complying the above referred tender document including instructions, terms & conditions, scope of work, schedule of quantities and all the contents stated therein. I / We also confirm that the rates quoted by me / us are inclusive of all taxes, duties etc., applicable as on date.
- 2. I /we have gone through all terms and conditions of the tender document before submitting the same.

Date: Place:		Authorized Signatory
	Seal	Name:
		Designation: Contact No:

On Company Letter Head

Bid Security Declaration

То

The Registrar,

Indian Institute of Technology Tirupati-Renigunta Road, Settipalli post, Tirupati 517506.

Tender No. IITT/CHEM/2022-23/33 dated: 07.07.2022.

Name of the Tender/Supply: Notice Inviting Tender for Supply, installation, testing and Commissioning of Supply, installation, testing and Commissioning of Equipment for the control of level via flowrate control and Stirred tank with multivariable Control.

Sir,

We, the undersigned declare that

- 1. We understood that, according to the tender conditions, bids must be supported by a Bid Security Declaration.
- 2. We accept that we will automatically be suspended from being eligible for bidding in any contract with the Institute for the period of **3 years** starting from the bid closing date, if we are in breach of our obligation(s) under the bid conditions, because we;
 - (a) have withdrawn our bid during the period of bid validity specified in the letter of bid; or
 - (b) having been notified of the acceptance of our bid by the institute during the period of bid validity, (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the performance security, in accordance with the tender conditions.

Date: Place:		Authorized Signatory
	Seal	Name:
		Designation:

CERTIFICATE (To be provided on letter head of the firm)

I hereby certify that the above firm is not in the active debarred list by any Central/State Government/Public Undertaking/Institute nor is any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in every respect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm may be blacklisted.

Date:		Authorized Signatory
Place:	Seal	Name:
Tiacc.		Designation:

a) Experience: (As per tender Clause No.4.2 (III)

Year	Name of the Item with Specification (Technical specification	Purchase Order No. & Date (Copy of the Orders to	Date of successfully completion of SITC of ordered Item (copy of	Contact Details of Client
	brochure to be	be attached)	Installation report from client	
	attached)		to be attached)	
2017-18				
2018-19				
2019-20				
2020-21				

b) Past Performance: (As per tender Clause No.4.2 (III)

Year	Purchase Order	Quantity	Date of	Whether supplied	Contact
	No. & Date (Copy		successfully	item(s) is in	Details
	of the Orders to be		completion of	successful	of
	attached)		SITC of ordered	operation for at	Client
			Item (copy of	least one year	[email
			report from	(Certificate from	and
			client to be	client to be	phone
			attached)	attached)	no]
2017-18					
2018-19					
2019-20					
2020-21					

Date :		Authorized Signatory
Place:	Seal	Name: Designation:
		Contact No.:

ANNEXURE – V

Annual Turnover and Profit Details:

Evaluation Criteria				Remark	Specific page no. where the proof of documents are enclosed
Bidder's Annual	Financial Year	Turnover in Rs.	Annual Profit in Rs.	-	
Turnover and Profit for last	2020-21			Supporting Documents are to be	
three financial	2019-20			attached along with the Annexure-V [i.e. Audited financial	
years	2018-19			Statements or Financial Statements showing turnover duly signed by a Chartered	
	2017-18			Accountant are to be submitted]	

Date:		Authorized Signatory: Name:
Place:	Seal	Designation:
riace.		Contact No.:

Format for Self-Declaration under preference to make in India order

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II date. 15.06.2017 & P-45021/2/2017-PP (BE-II) dated: 04 June 2020. We hereby certify that we M/s (supplier name) are CLASS-
I/Class-II (Please specify clearly) supplier meeting the requirement of local content more than 20% as defined in above orders for the material against Enquiry No. IITT/CHEM/2022-23/33 dated: 07.07.2022.
Details of location at which local value addition will be made as follows: (Complete address to be mentioned)
Percentage of Local Content:
(As per the OM of Department of Promotion for Industry and Internal Trade No. P-45021/102/2019-BE-II-Part(1) dated: 04.03.2021. The bidders can't claim themselves as Class-I local suppliers/Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition)
We also understand, false declarations will be in breach of the Code of Integrity under rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.
Seal and signature of Supplier
Date :
Place :

Technical Compliance statement

Description	Compl	Remar	Offere	% of	Coun
Description	ied	ks, if	d	Local	try of
	(Yes/		Make	Content	Origi
	No)	any	Wiake		_
	110)		Model	as per Tender	n
			Model	Clause	
				No.4.2(
				V)	
Item 1: Technical Specifications for "Supply, Installation & Commissioning of Equipment for Control of Level via Flowrate Control"				• • •	
Objectives of Experiment					
1. This setup should enable us to independently study level					
control, and flow control in a tank system.					
2. To study cascade control of level via flow control.					
3. This experimental setup should enable us to study the					
influence of different controller parameters of digital					
controllers (P, PI, or PID) on stability.					
4. To study the influence of disturbance variables on level					
control, flow control and cascade control.					
5. To investigate the properties of the open and closed control loops, and assess the performance of different					
controllers.					
controllers.					
Technical Specifications					
# Item and Specifications					
1 Process Tank:					
Transparent tank with overflow and graduated scale					
Volume: 5-10 L					
Height: 0.4 – 0.7 m					
2 Storage tank 12 - 15 L, Stainless steel					
3 Pump:					
Power 90W					
Max. flow: 85 LPM					
Max. head: 6.5 m					
4 Pressure sensor: 0 – 100 To measure level					
mbar					
with resolution of 0.1 mbar					
5 Rotameter with electrical To measure flow rate					
output: 0 – 600 LPH					
with resolution of 1 LPH					
6 Electromagnetic proportional valves:					
Suitable specifications					
7 Ball valves with scale:					

	For generating disturbances		\top	
8	Digital industrial controllers:	$\left\ \cdot \right\ $		
O	2 Nos; Parameterizable as P,			
9	Copper pipes:	1		
	Suitable size			
10	Provision to connect	Yes	1	
	external recording devices			
	via lab jack			
11	Software:			
	(e) A Windows based sof	tware allowing real time		
	data acquisition via U	SB port includes a mimic		
	_	s, a graphical display of		
	results, and a table of	= = = = = = = = = = = = = = = = = = = =		
	exported to an externa			
	•	ulti loop control strategies.		
	(g) Control options must	=		
	Alarm setting	merude.		
		PI & PID controller		
	•	luding a presentation screen		
		view of the equipment, and		
		ll the information required		
	to run the experiments	S.		
12	Safety features:		1	
	Automatically stop operation at	power failure.		
13	Warranty:			
	3 years or higher from the dat Tirupati	e of installation at 111		
14	Installation and Training:		-	
1	Free of cost installation and train	ning at IIT Tirupati		
15	Delivery:			
4.5	At Yerpedu Campus, IIT Tirupa	ti.	41	
16	Delivery time:	Dunahasa andan		
17	4-8 Weeks from date of raising Necessary Documents:	Purchase order	-	
1,	(e) Catalogue in the origina	1.		
	(f) All technical specification			
	catalogue. The separate	sheet will not be acceptable.		
	(g) The quoted model should	•		
	Please declare the year			
	(h) Instruction manuals con	ams, sample calculations, etc.		
	must be provided.	anis, sample calculations, etc.		
18	Supplier's capability:		-	
	* *	es service and support in India.		
	(e) Supplier should compul	•		
	facilities/expertise in Inc			
	(f) Factory trained engineer			
	available in India for co	mpiete product support.	_	

19	Acceptance Criteria:		
17	(c) Equipment shall be installed and demonstrated before acceptance at IIT Tirupati. (d) The vendor also needs to do a complete demonstration of the complete setup for its full functionality.		
20			
20	Terms and Conditions: (h) All mounts, cables, guides, adaptors, assembly and other mandatory accessories must be included and should be scope of delivery. (i) The bidder should provide a point-by-point compliance statement for each item/subitem/component and the compliance statement must be supported by the authenticated documents. Deviation in any component (or subcomponent) must clearly be mentioned. (j) All the supplied hardware components, attachments and software must be capable of yielding high performance of overall system. (k) All the power supply related accessories must be as per Indian standard. (l) Should give complete installation and on-site training of all components, start-up, synchronization and performance verification of equipment. (m) All the required standalone software must be supplied. (n) All the supplied firmware/software and their upgrades to enhance performance, manageability and security must be available online to download free of cost during the warranty period. (o) The supplier should have supplied a minimum of two similar equipment to reputed institutes in the last three years, and must provide service satisfactory certificate on request.		
21	Optional Items: (a) The vendor should quote 2 years of additional warranty as a separate quote. (b) Vendors can quote for any other necessary items separately as optional optional in the sheet no:2 in BoQ. (c) Make and model number of the optional items should be clearly indicated.		
22	Please specify the scope of warranty:		
23	Spares and Service Support availability: Minimum 5 years		

Item 2: Technical Specifications for "Supply, Installation & Commissioning of Stirred Tank with Multivariable Control"

Objectives of the Experiment:

- (d) To study the multivariable control of level and temperature.
- (e) To study the level control with 1) PI controller and 2) feedforward control.
- (f) To study the temperature control with 1) two-point controller, 2) three-point controller (split range), 3) override control and 4) via motorised valve with position feedback.

Technical Specifications

- 13. The experimental set up should be capable of studying the coupled level and temperature control in a stirred tank.
- 14. The setup must have a stirred tank with a double jacket and heater.
- 15. The setup must display level measurements of tank and jacket.
- 16. The experimental set up should have a heat exchanger for heat recovery
- 17. The setup must be capable of temperature control with heater and 3-way motorized valve as actuator.
- 18. The setup must be capable of level control with a pneumatic control valve as actuator.
- 19. The temperature controller and level controller must be configurable and parameterisable with a windows based software.
- 20. The software must be supplied along with the experimental setup.
- 21. The setup should be capable of a two-point controller for constant temperature in cooling tank via external cooling water.
- 22. The vendor should provide the complete setup for the multivariable control of a stirred tank with all necessary parts/ accessories/ connectors as indicated below and any other parts for its full functionality to study coupled control of level and temperature.
- 23. The minimum requirements of the instrument and monitoring system must consist of the equipment/instruments/ accessories as indicated below.
- 24. Improved features can be considered with regard to the specifications as indicated.

#	Items and Specifications
1	Tanks:
	Stirred tank: 12 - 15L
	collecting tank: 60 - 80 L

		1 1	1	1	1	
2	Pumps:					
	2 no.s					
	max. flow rate: approx. 65L/min					
	max. head: approx. 25m					
3	Heat exchanger:					
	Heat transfer surface: 0.7-0.9 m ²					
4	Heater:					
-	power output: approx. 2kW					
5	Digital Industrial Controllers:					
] 3	•					
	2 Nos, Parametrizable as P, PI and PID controllers					
6	Measuring ranges:					
	flow rate: 60600L/h					
	temperature: 0100°C					
	level: 01000mm					
7	Valve:					
L	3-way motorised valve opening: 0100%					
8	Software:					
0						
	(a) A Windows based software allowing real time					
	data acquisition via USB port includes a mimic					
	diagram of the process, a graphical display of					
	results, and a table of results which can be					
	, and the second					
	exported to an external spreadsheet.					
	(b) Fully configurable, multi loop control strategies.					
	(c) Control options must include:					
	Alarm setting					
	 Adjustable P, PI & PID controller 					
	(d) Full help facilities including a presentation screen					
	to provide a brief overview of the equipment, and					
	detailed texts giving all the information required					
	to run the experiments.					
	to full the experiments.					
9	Safety features:					
	Automatically stop operation at power failure.					
10	Warranty:					
	3 years or higher from the date of installation at IIT					
	Tirupati					
11	Installation and Training					
	Free of cost installation and training at IIT Tirupati					
12	Delivery:					
	At Yerpedu Campus, IIT Tirupati.					
13	Delivery time:					
	4-8 Weeks from date of raising Purchase order					
14	Necessary Documents:					
	(a) Catalogue in the original.					
	(b) All technical specifications should be printed on the					
	catalogue. The separate sheet will not be acceptable.					
	(c) The quoted model should be of the latest technique.					
	Please declare the year with proof.					
	(d) Instruction manuals consisting of experimental					
	procedures, block diagrams, sample calculations, etc.					
	must be provided.					

15	C		
15	Supplier's capability:		
	(a) Availability of after sales service and support in India.		
	(b) Supplier should compulsorily indicate details of		
	facilities/expertise in India.		
	(c) Factory trained engineer/s & competency should be		
	available in India for complete product support.		
16	Acceptance Criteria:		
	(a) Equipment shall be installed and demonstrated before		
	acceptance at IIT Tirupati.		
	(b) The vendor also needs to do a complete		
	demonstration of the complete setup for its full		
	functionality.		
17	Terms and Conditions:		
1 /	(a) All mounts, cables, guides, adaptors, assembly and		
	other mandatory accessories must be included and		
	· ·		
	should be scope of delivery.		
	(b) The bidder should provide a point-by-point		
	compliance statement for each item/sub-		
	item/component and the compliance statement must		
	be supported by the authenticated documents.		
	Deviation in any component (or subcomponent) must		
	clearly be mentioned.		
	(c) All the supplied hardware components, attachments		
	and software must be capable of yielding high		
	performance of overall system.		
	(d) All the power supply related accessories must be as		
	per Indian standard.		
	(e) Should give complete installation and on-site training		
	of all components, start-up, synchronization and		
	performance verification of equipment.		
	(f) All the required standalone software must be		
	supplied.		
	(g) All the supplied firmware/software and their		
	upgrades to enhance performance, manageability and		
	security must be available online to download free of		
	cost during the warranty period.		
18	Optional Items:		
10	(a) The vendor should quote 2 years of additional warranty		
	as a separate quote.		
	(b) Vendors can quote for any other necessary items		
	separately as optional optional in the sheet no:2 in BoQ.		
	(c) Make and model number of the optional items should be		
	clearly indicated.		
10			
19	Please Specify the Scope of Warranty:		
20	Spares and service availability: Minimum 5 Years should be		
	provided		

COMPANY DETAILS

Date of Incornoration /		
Date of Incorporation / Registration details		
PAN Number		
GST Registration Number		
Bidder's Bidding Capacity for the tendered items (As a Manufacturer/ Trader/ dealer / channel partner / system integrator, etc.)		
	Account Number	
	IFS Code	
Bank Details	Bank Name	
	Branch Name	
Registered Office Address		
Authorized Signatory Details	Name	
	Name Designation	
(Company/Firm Authorization		
	Designation	
(Company/Firm Authorization by the competent authority, to	Designation Email	
(Company/Firm Authorization by the competent authority, to	Designation Email Phone	
(Company/Firm Authorization by the competent authority, to be attached)	Designation Email Phone Name	
(Company/Firm Authorization by the competent authority, to be attached) Details of Contact other than	Designation Email Phone Name Designation	
(Company/Firm Authorization by the competent authority, to be attached) Details of Contact other than	Designation Email Phone Name Designation Email	Signature and Seal of the Tendere
(Company/Firm Authorization by the competent authority, to be attached) Details of Contact other than Authorized Signatory	Designation Email Phone Name Designation Email	Signature and Seal of the Tendere Name in Block Letter:

Contact no.

ANNEXURE-IX

CHECKLIST FOR BIDDERS TO BE SUBMITTED IN DULY FILLED AND SIGNED

Tender	Name of the Document	Document	Submitted	Page No. of
Clause		Particulars	(Yes/No)	the attached Document
No. 3.1	Tender Fee			Document
3.1	Bid security Declaration (Annexure-II)			
3.3	Valid Tender Fee / EMD Exemption Certificate			
4.1.	PAN Card			
7.1.	Incorporation/Registration certificate of company			
	GST Registration copy			
4.2.(I)	Tender acceptance letter (Annexure I)			
4.2.(II)	Non-Blacklisting undertaking (Annexure III)			
4.2.(III)	The Supplier should have supplied a minimum of 2			
, ,	similar systems to other CFTI institutes like IIT or			
	IISER in last 3 years i.e. during 2017-18 to 2019-20			
	or 2018-19 to 2020-21 in India and Vendor should			
	provide satisfactory installation certificates with			
	product details as proof with customer contacts email			
	and phone number as per the Annexure-IV for the			
4.0 (11.1)	both the items.			
4.2.(IV)	The Annual Turnover should be at least Rs. 10 Lakhs			
	and be profitable during each of the previous three			
	financial years i.e. during 2017-18 to 2019-20 or			
	2018-19 to 2020-21. Audited financial Statements or			
	Financial Statements showing turnover duly signed by			
	a Chartered Accountant are to be submitted as per the			
	Annexure-V.			
4.2.(V)	The bidder should be a Class-I/ Class II in line with			
, ,	the Public Procurement (Preference to Make in India)			
	Order 2017 No. P-45021/2/2017-PP (BE-II) dated 04			
	Jun 2020. A Self-Declaration Certificate regarding			
	"Class-I & Class-II Supplier" for the tendered items as			
42(37)	per the Annexure-VI is to be submitted.			
4.2.(VI)	The bidder should be OEM or OEM authorized			
	Dealers / Channel partners / Distributors of reputed			
	brand having authorization for sales and after sales			
	support. Valid OEM authorization letter is required to			
	participate in this tender.			
4.2.(VII)	Any bidder from a country which shares a land border			
	with India will be eligible to bid in this tender only if			
	the bidder registered with the competent authority.			
	The concerned bidder(s) are required to attach the			
	relevant valid Registration Certificate along with the			
4.2	bid for consideration.			
4.3	Technical Compliance Statement : Annexure-VII.			
11.1 (I)	Purchase Preference: (if applicable)			

	Micro and Small Enterprises (MSEs):		
11.2 (II)	Purchase Preference: Make in India		
12	Payment Term: Within 30 days after SITC.		
13	Onsite Warranty: Minimum 3 years' on-site		
	warranty for both the items from the date of		
	installation.		
	Two years' Additional warranty after completion		
	of standard warranty for both the items should be		
	quoted separately as an optional in the BoQ.		
3	Spares and service support: Minimum 5 years from		
	the date of supply		
15	Delivery: FOR IIT Tirupati within 4-8 weeks for		
	both the items		
8	Bid validity: 120 days from the date of opening of the		
	tender		
	Company details : Annexure-VIII		

Note:

- 1) Submission of tender without the above mentioned documents will lead to rejection/disqualification of the tender.
- 2) It is mandatary for the bidder to assign page numbers to the tender documents and the same has to be mentioned in the above checklist.

Signature of the bidder with stamp