



Office of Deputy Registrar (Purchase)
Indian Institute of Science (IISc)
Bangalore – 560012
(<https://www.iisc.ac.in>)

NOTICE INVITING TENDER

in e-Tender mode only on the
Central Public Procurement Portal (CPPP) of the Govt. of India
under the two-cover bid system

for

**Supply and Installation of Laboratory Scale Autoclave
for Fabrication of Advanced Composite
Components/Laminates for Prepreg based fabrication
as well as for dry fabric + Resin system wet layup
Required for the Composites Fabrication Laboratory at
IISc - Challakere Campus**

Tender No: IISc/Purchase/CDC/2020/08

Date: 9th July 2020

Contact Details for this tender:

Chair

Challakere Empowered Committee
Challakere Development Centre Office
Indian Institute of Science
Bangalore 560012

Email: mrb@iisc.ac.in

CPPP Tender Submission website:
<https://eprocure.gov.in/eprocure/app>

1. Introduction

Established in 1909, Indian Institute of Science (IISc), having its main campus at Bangalore (Karnataka, India), is India's leading institution of advanced education and research in the sciences and in engineering. It is a Deemed-to-be-University as per Section 3 of the UGC Act 1956 under Ministry of Human Resource Development (Govt. of India). On the 11th of October 2018, the Indian Institute of Science (IISc) was formally notified as an Institution of Eminence (IoE) by the Govt. of India. From its beginnings, IISc has laid equal emphasis on fundamental investigations and the solution of practical problems in such a setting.

The Institute also has a new campus at Challakere in the Chitradurga district of Karnataka. The flagship project of this 1,500 acre campus has been a training programme for science teachers. This programme has now been recognized as a Centre for Excellence in Science and Mathematics Education by the Government of India.

The Institute invites bids from reputed manufacturer / OEM authorized distributor / OEM authorized Indian agents for Supply and Installation of Laboratory Scale Autoclave for Fabrication of Advanced Composite Components/Laminates for Prepreg based fabrication as well as for dry fabric + Resin system wet layup Required for The Composites Fabrication Laboratory at IISc - Challakere Campus.

Detailed technical specifications are mentioned in the subsequent sections.

The bids must have to be submitted in ONLINE mode through e-procure module of Central Public Procurement Portal (CPPP) of Govt. of India in two-cover bid system.

Schedule of Events

Tender Publishing Date	9 th July 2020
Deadline for submission of bids on CPPP	28 th July 2020, 5:00 PM IST
Opening of technical bids on CPPP	30 th July 2020, 11:30 AM IST
Listing of technically qualified Bidders on CPPP	To be declared later
Opening of price bids on CPPP	To be declared later

Any query / correspondence should be sent to the email (mrb@iisc.ac.in) given on the title page of this tender. Query / correspondence sent to any other person / official, will not be entertained. IISc has absolute right to modify date & time of an event.

2. Technical Specification

Supply and Installation of Laboratory Scale Autoclave for Fabrication of Advanced Composite Components/Laminates for Prepreg based fabrication as well as for dry fabric + Resin system wet layup Required for The Composites Fabrication Laboratory at IISc - Challakere Campus

Sl. No	Parameter	Specification	Qty
1.	Technical Specifications	Working Space : 1.000m dia / 1.000m Length Maximum Temp : 300° C Maximum Pressure: 10 bar Heating Rate: 3° C / min (Max) Cooling Rate: 3° C / min (Max) Temp. Control: $\pm 1^{\circ}$ C Temp. Uniformity: $\pm 1^{\circ}$ C Pressure Control : ± 0.1 bar Vacuum Control : + 5% of FSR Maximum Vacuum at Source : 3m bar	01
2.	Control and Instrumentation Systems	Control System with PC Sets of sensors and associated closed loop system controls for Temperature, Pressure & Vacuum controls - Real time/On-line Required Water / Air cooling System (Plant) to be set up User Friendly Computer Software to Start, Run, Control & Record the parameters Real Time parameter monitoring / Recording of data / parameters in a file for off-line storage All necessary Lock-Unlock /Safety Features / Warning / Alarms to be built in Emergency Switch Off Feature to be built in	

3.	Other Requirements	Cylindrical Autoclave to be Horizontal Compressed Air to be used for Pressurisation Necessary Compressed Air Charger / Plant of required capacity meeting above specs to be installed Inner Working Diameter to be 750 mm Autoclave to be Floor mounted Working trolley with convenient height for loading / unloading to be supplied Blower Fan for internal Air Circulation to maintain uniform temperature Two thermocouples with associated electronics to monitor internal temperature Two automatic control vacuum suction line with Resin traps On-Site Delivery, Installation, On-Site Operation & Maintenance Training, Calibration and Maintenance for Two Years to be included with Warranty for All Sub Systems / Components & Associated accessories Note:	
Note: Above are basic minimum requirements. Additional advanced Features / facilities / accessories available from bidder's side may please be provided with technical bid.			

3. Terms and Conditions

1. The bid must be valid for at least 180 days from the actual date of opening of the technical bid.
2. The company should have sold at least FIVE similar-capacity systems to Govt. funded institutions in India.
3. Two bid system (separate technical and financial bids) will be followed.
4. Technical bids will be opened first. IISc may seek clarifications after opening of technical bids. IISc may issue corrigendum(s), which will be integral part of the tender. IISc reserves the right to accept or cancel a bid. Decision of IISc regarding evaluation of technical bids or price bids will be final and binding.
5. Price bids of only technically qualified vendors will be considered, and the vendors will be informed the day of opening the price bids through CPPP only.
6. The price bids may be offered on CIP-Bangalore basis if equipment is from out of Country (import order).
7. Earnest Money Deposit (EMD) must be deposited through NEFT / RTGS. Micro and Small Enterprises (MSEs) are exempted from this deposit provided they submit a valid certificate as per GFR / Govt. India rules.
8. Warranty for 2 (two) years is mandatory. Warranty period will start only after the complete supply and installation and acceptance by IISc of the provided item / solution.
9. AMC for the 3 years (after warranty) must be quoted in INR. For AMC, separate order will be issued after completion of warranty. For AMC, payment will be released on half yearly basis after completion of each half year. AMC will be comprehensive.
10. Supply and installation should be completed within 3 (three) months of placing of order.
11. The items should be delivered, successfully installed and demonstrated at: -
Skill Development Center
Indian Institute of Science (IISc) - Challakere Campus
Kudapura, Challakere Taluk
Chitradurga Dist. – 577536, Karnataka (India)
12. In case of indigenous order, 100% payment will be released after complete delivery and satisfactory installation. In case of import order, Institute may consider payment through Letter of Credit (payment of 80% of the equipment costs, against dispatch of documents and the rest after complete delivery and satisfactory installation). Payment will be subject to deduction of TDS as per rules/laws.

13. Indigenous order must be on FOR-IISc Challakere Campus basis, whereas Import order should be preferably on DDP-IISc Challakere basis, however IISc may consider CIP-Bangalore basis. It should be clearly mentioned in the technical bid.
14. IISc is a DSIR recognized research organization and hence eligible for concessional / exempted rate of Custom Duty (for import items) and concessional / exempted rate of GST @5% (for indigenous items). Since these items are required for research purpose, IISc will issue Custom Duty Exemption Certificate (CDEC) (for import items) or GST Exemption Certificate (for indigenous items). For the same item, both certificates will not be issued. Bill of Entry must be in the name of IISc for import items. While quoting, the bidders may consider this point. Import items must be quoted in USD (US Dollar) for availing our CDEC and Indigenous items must be quoted in INR (Indian Rupees). Details of the foreign firm, on which the foreign order has to be placed must be clearly mentioned (with name of the firm, complete address, contact details, email IDs, bank details etc.) in the technical bid with its authorization letter in favour of the bidder / authorized Indian agent.
15. For DDP-IISc Challakere basis, please note that IISc will not be involved in custom duty / airport charges payment, custom clearance, forwarding and transportation / shipment of import items; IISc will only provide relevant documents for availing concession / exemption in Custom duty / IGST subject to submission of documents (viz. Invoice, Bill of Entry, Bill of Lading, airway Bill, packing list etc.) by the vendor. Bill of Entry must be in the name of IISc. Customs duty must be paid by the vendor. Before release of final payment, all original documents with regards to import must be handed over to IISc, failing which final payment may not be released.
16. For CIP-Bangalore basis, IISc will get the consignments cleared from custom from its own CHA. The vendor must provide all documents (viz. Invoice, Bill of Entry, Bill of Lading, airway Bill, etc.) in advance, required for custom clearance. If there will be delay at the vendor's end in providing the correct documents, then any fine / demurrage / additional charges paid by IISc in custom clearance and its forwarding will be deducted from the vendor's bill at the time of final payment.
17. IISc reserves the right to cancel or modify the tender at any time without assigning any reason thereof.
18. As time is essence for this procurement, the successful bidder must have to adhere by the delivery and installation schedule as per purchase order, failing which Liquidity Damage (LD) will be imposed for late delivery and installation at the rate of 1% of total order value for delay per week or part thereof (maximum up to 10% LD). IISc may consider formal request for extension in delivery and installation schedule on genuine grounds, however it will be absolute right of the IISc to accept or reject such request of the vendor. IISc reserves the right to cancel the order if there is delay without a formal approval by IISc.
19. Performance Bank Guarantee (PBG) of 10% of the total order value has to be provided by the successful bidder within two weeks of placement of order.

4. Earnest Money Deposit (EMD)

1. All Bidders must submit Rs. 3,00,000/- (Rs. Three Lakh only) as EMD or bid security in the form of RTGS/NEFT transfer, the Bidder must submit e-receipt as a proof of EMD submission along with the technical bid. Failure to comply with this requirement will result in rejection of the bid. The account details of IISc are provided below.
2. After the placement of the purchase order on the successful Bidder, the EMD amount will be returned to the unsuccessful Bidders without interest.
3. The EMD amount will be returned to the successful Bidder after the Institute places a firm purchase order for the procurement and the successful Bidder then submits a performance security/bank guarantee followed by its verification.
4. Micro and Small Enterprises (MSEs) or Startups firms will be exempted from submitting EMD as per GFR 2017 (amended from time to time). Such a Bidder must submit copy of valid certificate (from appropriate agency of Govt. of India) with the technical bid, failing which their bid will be declared as a non-responsive bid.
5. The bid must be valid for at least 180 days from the actual date of opening of the technical bid. Withdrawal of the bid within the period of validity will result in forfeiture of the EMD amount.

Details of the Bank Account of IISc Bangalore for submitting EMD / PBG / KYC

Account's Name	Registrar, Indian Institute of Science, Bangalore	Note: <ul style="list-style-type: none"> • It is mandatory to write the Name & Address of the Bidder and Tender Reference No. & Date on the back side of the e-receipt of NEFT/RTGS. • Acceptance of the e-receipt of NEFT/RTGS is subject to its verification from the Finance & Accounts section / Bank, IISc.
Bank	State Bank of India	
Branch	IIS Bangalore	
Branch Code	02215	
Account No.	31728098170	
IFSC	SBIN0002215	
MICR	560002020	
GSTIN	29AAATI1501J2ZV	
PAN	AAATI1501J	
IEC Code	0788012428	
ADC	00022158400009	
TAN	BLRI0070D	

Note: No separate KYC will be provided.

5. Performance Security / Performance Bank Guarantee (PBG)

1. Successful bidder has to submit a Performance Security / Performance Bank Guarantee (PBG) issued by a nationalized bank or a scheduled commercial bank as per RBI list in India within two weeks of the issue date of purchase order. Performance Security / PBG will be for an amount of 10% (ten per cent) of the total purchase order. Performance Security may be furnished in the form of online payment (RTGS/NEFT) or Bank Guarantee in the specified format given in the Annexure-3.
2. Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.
3. The Earnest Money Deposit (EMD) of the successful Bidder shall be returned on submission of Performance Security / PBG without any interest.
4. EMD of unsuccessful bidder will be returned without any interest after placement of order. EMD will be forfeited, if bidders change their terms & conditions or fail to submit PBG on time or fails to accept the purchase order during bid validity period.
5. Performance Security / PBG will be returned without any interest after successful completion of the all contractual obligations including warranty period AMC period (if any). However, if the successful Bidder fails to deliver the items / install and commission the items as per the order's terms and conditions within the stipulated period or fail to provide satisfactory services during contractual obligations include warranty period and AMC period (if any), the PBG shall be liable to be forfeited. Decision of IISc in this regard will be final and binding.

6. Guidelines for Bid Submission

Bidders are required to submit their bid in e-tender mode through the Central Public Procurement Portal (CPPP: <https://eprocure.gov.in/eprocure/app>) only. If a Bidder submits a response to the e-tender, then it is assumed that the Bidder accepts all the terms and conditions specified in this document. A bid submitted through any other mode will not be entertained and will be treated as non-responsive.

The submission consists of two parts, viz. a Technical Bid and a Commercial / Price Bid.

The **Technical Bid** should be an *indexed and page-numbered* document containing:

- Duly filled-in and sealed & signed by the bidder (Annexure-1)
- E-receipt of EMD (MSE / startup certificate in case of EMD exemption)
- BoQ compliance (Annexure 2), (without quoted price).
- Supporting technical materials for the items in the BoQ.
- Supporting documents listed in the Overall Compliance Statement.
- A signed document that the Bidder agrees to the Service Terms, Commercial Terms, and Payment Terms set forth in this tender.

The **Commercial / Price Bid** should contain:

- The BoQ table (in the CPPP Excel sheet for this tender) with quoted price of each line item. Price of equipment cost should include supply, delivery, and installation with minimum two (2)-year warranty. Prices for import items must be quoted in either in DDP-IISc Challekere (Delivered Duty Paid) or CIP-Bangalore - basis (anyone only) terms. Prices for indigenous items must be quoted on FOR-IISc basis.

Points to Note:

1. Prices for import items must be quoted in either in DDP (Delivered Duty Paid) or CIP basis (anyone only). Prices for indigenous items must be quoted on FOR basis. This must be clearly mentioned in the technical bid in Annexure-1.
2. Prices of items must NOT be mentioned in the Technical Bid.
3. The first line item in the Commercial (Price) Bid may be quoted in INR or USD, but not in both. Comprehensive AMC cost must be in INR only. Bid Ranking (L1, L2, ...) will be decided on the basis of sum of quoted price of the both line items (supply and installation of equipment cost + AMC cost).
4. The commercial bid must be valid for at least 180 days from the actual date of opening of the technical bid.
5. A tender not complying with any of the above conditions is liable to be rejected. Incomplete proposals are liable to be rejected.
6. The Director, IISc, reserves the right to modify the technical specifications or the required quantities at any time. In such a case, the Bidders will be notified.
7. The Director, IISc reserves the right to accept or reject any proposal, in full or in part, without assigning any reason.
8. Instructions To Bidder for Online Bid Submission may be downloaded from CPPP website (Download section).

Annexure 1: Details of Bidders (on the letter head of the bidder)

(to be submitted with Technical Bid)

To

The Registrar, IISc, Bangalore (India)

Sir,

I hereby submit my bid for your tender no. -.....

Details are as under along with all required documents.

EMD Details (attach e-receipt / MSE certificate)	
Bidder's Name and Address (attach incorporation certificate)	
GSTIN (attach GST Regn. Certificate)	
PAN (attach copy of PAN)	
Bank Accounts Details (attach copy of cancelled cheque)	
Category – OEM / Indian Agent of foreign firm / OEM authorized distributor (mention clearly)	
USD item (i.e. foreign item) is quoted on which basis DDP-IISc Challekere or CIP-Bangalore (mention clearly)	
If USD items, then provide details (viz. Name, address, contact details) of the foreign firm	
Bank Account details of Foreign Firm (if quote in USD) (attach copy of cancelled cheque)	
Authorization letter by foreign firm attached (Yes / No)	
Warranty period offered in years from the date of installation and accepted by IISc (minimum two year must be offered)	

I have carefully gone through the Terms & Conditions and all the contents as mentioned in the above-referred tender document. I declare that all the provisions and contents of this tender document are acceptable to my company. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration. I copy of this tender document (duly sealed and signed on all pages) are being attached with this bid.

Thanking you.

Seal & Signature with name & date and PAN & Aadhar card no. of the signatory

Annexure 2: BoQ compliance
(to be submitted with Technical Bid)

A compliance sheet should be submitted in the format given below along with the Technical Bid. Bidder needs to write either INR or USD in the “quoted in INR or USD column”. Bidder MUST NOT write any Price here. PRICE must be written in BOQ Price Bid (Excel sheet) only separately.

Sl. No.	Parameters	Details Specification of item (Attach Separate Sheet if required)	Qty	Quoted in INR or USD (To be filled- in by the bidder)	Remarks (To be filled-in by the bidder)
1.	Technical Specifications	Working Space: 1.000m dia / 1.000 Length Maximum Temp : 300° C Maximum Pressure: 10 bar Heating Rate: 3° C / min (Max) Cooling Rate: 3° C / min (Max) Temp. Control: ± 1° C Temp. Uniformity: ± 1° C Pressure Control: ± 0.1 bar Vacuum Control : + 5% of FSR Maximum Vacuum at Source: 3m bar	01 set		
2.	Control and Instrumentation Systems	Control System with PC Sets of sensors and associated closed loop system controls for Temperature, Pressure & Vacuum controls - Real time/On-line Required Water / Air cooling System (Plant) to be set up User Friendly Computer Software to Start, Run, Control & Record the parameters Real Time parameter monitoring / Recording of data / parameters in a file for off-line storage All necessary Lock-Unlock /Safety Features / Warning / Alarms to be built in Emergency Switch Off Feature to be built in			

3.	Other Requirements	Cylindrical Autoclave to be Horizontal Compressed Air to be used for Pressurisation Necessary Compressed Air Charger / Plant of required capacity meeting above specs to be installed Inner Working Diameter to be 750 mm Autoclave to be Floor mounted Working trolley with convenient height for loading / unloading to be supplied Blower Fan for internal Air Circulation to maintain uniform temperature Two thermocouples with associated electronics to monitor internal temperature Two automatic control vacuum suction line with Resin traps On-Site Delivery, Installation, On-Site Operation & Maintenance Training, Calibration and Maintenance for Two Years to be included with Warranty for All Sub Systems / Components & Associated accessories			
4.	ANY OTHER TECHNICAL DETAILS OF THE ITEM, IF ANY →				
5.	(A) THREE-YEAR CAMC CHARGES QUOTED (INR) AFTER WARRANTY PERIOD (YES / NO)→ (B) DETAILS OF CAMC →				

Annexure - 3
Format for Bank Guarantee for Performance Security
(Performance Bank Guarantee)
(to be submitted by the successful bidder after placement of the purchase order)

To
 The Registrar
 Indian Institute of Science (I.I.Sc.)
 Bangalore – 560 012
 Karnataka
 India

Subject: Performance Bank Guarantee (PBG)

Reference: I.I.Sc. Purchase Order No. _____, dated _____

Dear Sir,

1. We hereby issue a Bank Guarantee as follows: -
 Bank Guarantee No. _____ Date: _____
 Amount of Guarantee Rs. _____,
 Guarantee covers From _____ To _____
 Last Date for Lodgement of Claim: _____

2. This deed of Guarantee executed by the (Name of the Bank: _____)
 constituted under _____ Act, _____ having its Central
 Office at _____ and amongst other places a branch at
 _____ (hereinafter referred to as "The Bank") in favour of The
 Registrar, Indian Institute of Science, Bangalore – 560 012 (hereinafter referred
 to as I.I.Sc.) for an amount of not exceeding Rs. _____ (in words:
 Rupees _____ only) at the request of M/s _____
 (hereinafter referred to as the "Contractor" / "Supplier").

3. In consideration of The Registrar, Indian Institute of Science, Bangalore – 560
 012 (hereinafter called I.I.Sc.) having entered into an agreement vide IISc's
 Purchase Order No. _____ dated _____ with M/s
 _____ (hereinafter called the Supplier) to carry out the supply
 and _____ installation of _____ the
 _____ <Name of the
 equipments/work/job> at Indian Institute of Science, Bangalore as per their
 above order, the Supplier agreed to execute a Bank Guarantee for 10% of the total
 order value viz. Rs. _____ (Rupees _____)

towards Performance Security / Performance Guarantee obligation for a period of ____ year(s) / month(s) from _____ to _____.

4. We, the _____ Bank, _____ Branch (hereinafter referred to as a Guarantor) at the request of the supplier, irrevocably undertake to indemnify and to keep indemnify I.I.Sc. without any demur to the extent of Rs. _____ (Rupees _____) in the event of the aforesaid Supplier failing to comply the Warranty / contractual Obligations as per the agreed terms to the full satisfaction of the Company as mentioned in the I.I.Sc.'s purchase order.
5. NOW THIS BANK HEREBY GUARANTEES that in the event of the said Supplier failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / Machinery / service, etc. this Bank shall pay to Indian Institute of Science, Bangalore on demand and without protest or demur Rs _____ (Rupees _____).
6. We _____ Bank, further agree that the Guarantee herein contained shall remain in full force and affect during the period that would be taken for the performance of the equipment and / or services as stated in the Purchase Order issued by I.I.Sc. and that it shall continue to be enforceable till the completion of the period and certified that warranty and contractual obligations have been fully carried out by the supplier and accordingly discharges the Guarantee subject. However, I.I.Sc. shall have no right under after the expiry of the Guarantee, i.e. _____ (date).
7. We, _____ Bank undertake not to revoke this Guarantee, during its currency except with the previous consent of I.I.Sc. in writing.
8. Notwithstanding anything contained herein,
 - (a) Our liability under the Bank Guarantee shall not exceed Rs. _____ (Rupees _____).
 - (b) This Bank Guarantee shall be valid up to _____.
 - (c) We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if I.I.Sc. serve upon us a written claim or demand on or before expiry of date (i.e. _____).
9. NOTWITHSTANDING anything contained herein above, our liability under this Guarantee is restricted to Rs. _____ (Rupees _____ only). Our guarantee shall remain in force until, unless a Demand or claim under the guarantee is made on our Bank in writing on or before _____, all your rights under the said guarantee be forfeited and we shall be relieved and discharged from all liabilities thereunder.

10. This Bank further agrees that the decision of Indian Institute of Science, Bangalore as to whether the said Supplier has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.
11. This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at _____ situated at _____ (Address of local branch) as following details:

Name of the Bank	
Branch Name	
Branch Code	
IFSC Code	
E-mail Id	
Phone / Mobile No.	

Seal & Signature of the Bank