

GLOBAL OPEN TENDER

Date: 18.02.2025

Global Open Tender Ref. No: IITH/MSME/JRAM/2024/O/T047GR

Indian Institute of Technology Hyderabad invites online bids (e-tender) in Two bid systems, from OEM/Authorized distributors/Authorized dealer of the following categories for the following item.

Category of Suppliers invited for this Tender

- i) Class I local Supplier – has local content equal to or more than 50%
- ii) Class II local Supplier – has local content equal to 20% but less than 50%
- iii) Non Local Supplier – has local content less than 20%

Item Description	Qty	Tender fee (GST 18%)	EMD (in Rs.)
Electron Beam Powder-Bed Fusion (EB-PBF) Machine	01	INR: 2,360/-	INR: 32,26,000

The Tender Document can be downloaded from <https://eprocure.gov.in/eprocure/app> OR Institute website- <https://iith.ac.in/tenders>

The bid is to be submitted online only through the E-procurement portal of <https://eprocure.gov.in/eprocure/app> up to the last date and time of submission of tender.

Schedule of Dates

Sr.No	Particulars	Date	Time
1	Date of Online Publication/Download of Tender	18.02.2025	04.00 P.M.
2	Bid Submission Start Date	18.02.2025	04.30 P.M.
3	Bid Submission Close Date	24.02.2025	11.00 A.M.
4	Opening of Technical Bids	25.02.2025	11.30 A.M.

No manual bids will be accepted. All quotation (both Technical and Financial) should be submitted online through E-procurement portal of <https://eprocure.gov.in/eprocure/app>

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. The contact details of the helpdesk are +91 0120-4711 508, +91 0120-4200462, +91 0120-4001002, +91 0120-4001005 and support-eproc@nic.in.

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INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bid electronically on the CPP Portal, using valid Digital Signature Certificates. Below mentioned instructions are meant to guide the bidders for registration on the CPP Portal, prepare their bids in accordance with the requirements and submit their bids online on the CPP Portal.

For more information, bidders may visit the Portal (<https://eprocure.gov.in/eprocure/app>)

1. REGISTRATION PROCESS ON ONLINE PORTAL

1. Bidders are required to enroll 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 Enrollment”** on the CPP Portal which is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. 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.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify /nCode /eMudhra etc.), with their profile.
5. 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 DSC’s to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

2. TENDER DOCUMENTS SEARCH

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
2. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e- mail in case there is any corrigendum issued to the tender document.
3. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

3. BID PREPARATION

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: *My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.*

4. BID SUBMISSION

1. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
4. Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.

5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

5. AMENDMENT OF BID DOCUMENT

At any time prior to the deadline for submission of proposals, the department reserve the right to add/modify/delete any portion of this document by the issuance of a Corrigendum, which would be published on the website and will also be made available to the all the Bidder who has been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

6. ASSISTANCE TO BIDDERS

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. 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. The contact details of the helpdesk are +91 0120-4711 508, +91 0120-4200462, +91 0120-4001002, +91 0120-4001005 and support-eproc@nic.in .

CHAPTER 1 INVITATION FOR TENDER OFFERS

Indian Institute of Technology Hyderabad invites online bids (e-tender) in Two bid system, from OEM/Authorized distributors/Authorized dealer of the following categories for the following item

Item: Supply, Installation, Commissioning & Demonstration of **Electron Beam Powder-Bed Fusion (EB-PBF) Machine.**

Category of Suppliers invited for this Tender

- i) Class I local Supplier – has local content equal to or more than 50%
- ii) Class II local Supplier – has local content equal to 20% but less than 50%
- iii) Non-Local Supplier – has local content less than 20%

1. The Bidders are requested to give detailed tender in Two Bid i.e.

- a. Part - I: Technical
- b. Part – II: Commercial Bid.

2. Date & Time Schedule

Sr.No	Particulars	Date	Time
1	Date of Online Publication/Download of Tender	As mentioned above	
2	Bid Submission Start Date		
3	Bid Submission Close Date		
4	Opening of Technical Bids		

Supply means: “Supply, Installation, Commissioning and satisfactory demonstration of the whole system and training”. If any charges extra are payable for Installation, Commissioning and training, the same should be specified in the commercial offer.

3. Availability of Tender:

The Tender Document can be downloaded from Central Public Procurement (CPP) Portal <https://eprocure.gov.in/epublish/app> OR Institute website- <https://iith.ac.in/tenders>

4. Envelope 1- Technical Bid:

4.1. The online envelope clearly marked as “**Technical Bid - Envelope No. 1**” shall contain the all scanned copies of originals documents in PDF Format.

- a) Compliance statement of specifications as per **Annexure- 'A'**.
- b) Bid Securing Declaration Form as per **Annexure- 'B'**.
- c) Manufacturer authorization as per **Annexure -'C'**.
- d) Previous Supply Order List Format as per **Annexure -'D'**.
- e) Bidder Information Form as per **Annexure -'E'**.
- f) Declaration Regarding Clean Track/No Legal Action as per **Annexure -'F'**.
- g) Acceptance of Tender Terms as per **Annexure - 'G'**
- h) Relation Certificate – as per **Annexure - 'H'**
- i) Local Content Declaration as per **Annexure - 'I'**
- j) Certificate as per DPIIT Order – as per **Annexure 'J'**
- k) Format of Performance B G - as per **Annexure 'K'**
- L) Integrity pact – as per **Annexure 'L'**
- M) Quote for Optional Items **Annexure 'M'**

- o) Copy of GST/ PAN No. allotted by the concerned authorities. If registered with the National Small Industries Corporation, the registration number, purpose of registration and the validity period of registration and a copy of NISC/MSME registration wherever it is applicable should also be provided in Technical Bid.

- p) Technical literature/ leaflets and complete specifications of quoted model(s) along with commercial terms and conditions.

- q) Undertaking that the successful BIDDER agrees to give a security deposit amounting to 5% of the purchase order value by way of Demand Draft / Bank Guarantee in favour of The Director, IIT Hyd.

- r) In case of exemption from submission of Bid security, proof of registration with NSIC/MSME or appropriate authority.

- s) Details of supplies of similar Works/Supplies along with photocopies of previous Purchase orders and details of place of supply along with contact details

- t) Check List

4.2. (a) **Tender Fees** : Tender Fees of **Rs. 2,360/- (including 18% GST)** in the form of Demand Draft/Bankers cheque in the name of Director IIT Hyd, should be submitted. The Demand Draft/Bankers Cheque in original should be posted/couriered/given in person to the Stores & Purchase Section of IIT Hyd , before the last date of Opening of Technical Bid. In case of non-receipt of original document before the due date of opening of technical bid, the uploaded bid will be summarily rejected.

(b) Earnest Money Deposit (EMD) –Rs. INR: 32,26,000/-

For Online Payment of EMD /& Tender Fees : The EMD/Tender Fees can be also be paid online , the bank details are as follows:

Name of the Bank & IIT Hyderabad	Account Number	IFSC CODE	Branch code
SBI	30412797764	SBIN0014182	14182

The Online payment proof needs to be uploaded along with the Technical Bid.

The firm registered with NSIC/MSME must give proof of registration along with their quotation failing which the bid will not be considered.

Exemption from submission of EMD/Tender Fees against valid and relevant NSIC /MSME Certification is permitted, however it shall be subject to scrutiny by the IITH and if during scrutiny, it is found that the NSIC Certificate is invalid and/or irrelevant, then that bid is liable to be rejected as “not-accompanying EMD”. Therefore, Bidders claiming exemption from EMD/Bid Securing Declaration against NSIC certificate, should ensure the same carefully, while submission of their bids.

Note: If in the view of bidder, any exemption / relaxation is applicable to them from any of the eligibility requirements, under any Rules / Guidelines/ Directives of Government of India, bidder may submit their claim for the applicable exemption /relaxation, quoting the valid Rule/Guidelines/ Directives with a copy of such notification. In this case the bidder must submit necessary and sufficient documents along with the technical bid, in support of their claim. The relevant and valid certificates in support of claim of exemption must be submitted along with the Technical Bid.

i) The BIDDER who submits the tender on behalf of their principals should produce documentary evidence in support of their authority to quote or submit Proforma invoice of their principals for this tender.

ii) The successful BIDDER, on award of contract / order, must send the contract / order acceptance in writing, within 15 days of award of contract.

iii) Bids submitted without Bid Securing Declaration / relevant MSME/NSIC Certificates will be rejected & no correspondence in this regard shall be entertained.

- iv) Any Exemptions under MSE Policy is meant for procurement of only goods produced and services rendered by MSEs. Traders/ distributors/ sole agent/ Works Contract are excluded from the purview of the policy.

4.3. Technical Specifications:

It must be ensured that the offers must be strictly as per our specifications. At the same time, it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer and the specifications mentioned in the quotation must be reflected /supported by the printed technical leaflet/literature. Therefore, the model quoted invariably be highlighted in the leaflet/literature enclosed with the quotation. Non-compliance of the above shall be treated as incomplete/ambiguous and the offer can be ignored without giving an opportunity for clarification/negotiation etc. to the quoting party.

4.4. Compliance Statements:

i) Bidders must furnish a Compliance Statement of each and every required Specification of our tender in the format at ANNEXURE-‘A’. The deviations, if any, from the tendered specifications should be clearly brought out in the statement. Technical literature/leaflet showing the compliance of the specification may also be attached with the quotation.

ii) Similarly, the Compliance Statement/questionnaire for Terms & Conditions of the tender may be furnished, as per the enclosed format at Annexure -‘A’, along with quotation (with techno-commercial bid in case of two bid tender system).

iii) The firms are advised to submit both the compliance statements essentially along with their quotation failing which their offer may not be considered.

5. Envelope 2: “Commercial Bid” shall contain:

i.) Cost of all the items should be mentioned clearly and individually in the Commercial Offer (Part-II) only.

ii) The BIDDERS are requested to quote for Educational Institutional Price for Equipment and software, since IITH is an educational institution of national importance and is entitled for the concessional price.

iii) The prices should be shown against each item for the purpose of Insurance claims / replacements if any.

iv) List of deliverables / Bill of materials and services.

- v) In case of foreign quote, the address of Principal’s / Manufacturer’s and their Banker’s details should be furnished.

Note:

- (i) No request for extension of due date will be considered under any circumstances.
 - (ii) No sub-contracting is allowed with regard to installation, commissioning, training, warranty maintenance and after sales service. This is the sole responsibility of the Principals' /their authorized agents
6. IIT Hyd may issue corrigendum to tender documents before due date of Submission of bid. The bidder is required to read the tender documents in conjunction with the corrigendum, if any, issued by IIT Hyd.

7. Bid Opening and Evaluation Process:

- a. Technical Bids will be opened as per the Date Schedule & Time.
- b. Financial Bids/Commercial Bids of the eligible bidders will be opened on a later date. The date and time for opening of Financial Bids /Commercial will be announced later.
- c. Bids would be summarily rejected, if tender is submitted other than through an online portal. The Bid is to be submitted within the stipulated date / time.

8. Technical Committee:

- (i) On the due date the Technical bids will be opened and referred to a duly constituted technical committee. The committee will go through the technical aspects of the tender and recommend short listed firms. The recommendation of the technical committee is the final and binding on all the parties.
- (ii) The technical evaluation will be an assessment of the Technical Bid. IIT Hyd representatives will proceed through a detailed evaluation of the Technical Bids as defined in Chapter IV (Schedule of requirements, specifications and allied technical details), in order to determine whether they are substantially responsive to the requirements set forth in the tender. In order to reach such a determination, IIT Hyd will examine the information supplied by the BIDDERS, and shall evaluate the same as per the specifications mentioned in this tender.
- (iii) The technical committee may formulate evaluation criteria in addition to the specifications and requirements indicated in the tender, in the interest of IIT Hyd and these criteria/recommendation will also form as a part of short-listing of the firms.
- (iv) The Technical Committee will examine all the Technical aspects of the bids received. Further, the Technical Committee may seek additional information from the existing users at IIT Hyd or from other Institutes, these feedbacks will be considered for technical evaluation, the bidders will also be called for technical presentations if it is required so. The bidders who are exempted from “ prior experience & turnover” will also be required to provide the details of the previous supplies if asked for at the stage of technical evaluation to enable the technical committee to take feedback from the existing users of the bidders.
- (v) The information received and the bids already submitted together will be examined with reference to the tendered specifications and evaluation is made by the Technical Committee.

(vi) After the technical evaluation is completed and approved, IIT Hyd shall inform to the BIDDERS whose bids have been rejected technically with the reasons for rejection.

(vii) The successful BIDDERS will be informed regarding the date and time of Commercial bid opening.

(viii) In the event of seeking any clarification from various BIDDERS by IIT Hyd , the BIDDERS are required to furnish only technical clarifications that are asked for. No amendment to commercial bid will be entertained at that stage. In case if a BIDDER fails to quote for a particular item it amounts to non-compliance and hence such bid will not be considered for further evaluation. Further during this process if any BIDDER indicates the price during the clarification such bids also will not be considered for further evaluation.

9. Commercial Bid Evaluation:

Based on results of the Technical evaluation IIT Hyd evaluates the Commercial Bid of those Bidders who qualify in the Technical evaluation.

a) IIT Hyd shall be free to correct arithmetical errors on the following basis:

(i) If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected.

(ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(iii) If there is a discrepancy between words & figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

b) Selling exchange rate/equivalent to Indian currency will be as on the date of bid opening in the case of single bidding and the rate on the date of opening of the Techno-Commercial bids i.e. Technical Bid in the case of two-part bidding.

c) The bids shall be evaluated on the basis of final landing cost as per format given in Price Schedule in case of import / indigenous items.

d) The comparison between the indigenous and the foreign offers shall be made on FOR destination basis and CIF/CIP basis respectively. However, the CIF/CIP prices quoted by any foreign bidders shall be loaded further as under:

- Towards customs duty and other statutory levies-as per applicable rates.

e) Where the price quoted on FOB/FCA and CIF/CIP basis are the same, the Contract would be made on CIF/CIP basis only.

f) The Vague terms like “packing, forwarding, transportation. Etc. extra” without mentioning the specific amount/percentage of these charges will not be accepted. Such offers shall be treated as incomplete and rejected.

g) After arriving at final pricing of individual offers of all the short listed firms, the lowest firm will be awarded with Contract/Purchase Order.

1. The Director, IIT Hyd reserves the right to accept the offer in full or in parts or reject summarily or partly and also reserves the right to cancel the tender at any stage without assigning reasons

CHAPTER-2: INSTRUCTIONS TO BIDDERS

1. PREPARATION AND SUBMISSION OF OFFERS:

a) Quotation should be submitted directly by the original manufacturer/supplier or its sole authorized distributor/dealer/ Agent. In case of bid by authorized dealer/distributor/ Agent, the manufacturer authorization should be attached with the technical bid as per Annexure-'C'.

One Agent can participate in a tender on behalf of one manufacturer only. No offer will be entertained if the same Agent is representing another manufacturer for the same item.

Bids from only one authorized distributor/retailer/reseller will be entertained, who has authorization from the company to quote for this tender. Multiple bids from various distributors from the same manufacturer will not be entertained & the company / principle providing multiple authorizations will be rejected from the tender.

b) The bidder shall bear all costs associated with the preparation and submission of its bid irrespective of the conduct or outcome of the bidding process.

c) The bidder should not indulge in any corrupt, fraudulent, collusive, coercive practices during the entire process of procurement and execution of contract/order.

d) Before the deadline for submission of the bid, IIT Hyd reserves the right to modify the bidding document and to extend or not to extend the date of submission. Such amendment/modification will be hosted on <https://eprocure.gov.in/eprocure/app> OR Institute website- <https://iith.ac.in/tenders>

f) Conditional tenders will be summarily rejected.

2. Delivery Period / Timeliness:

The deliveries & installation must be completed within **12 (twelve) months** of the date of purchase order. The time is the essence of the contract. It is mandatory for the BIDDERS who respond to this bid to meet these expectations, as they are tightly linked to IIT Hyd plans of completing the project within the time frame.

3 Security Deposit:

a. Within fifteen (15) days of the award of contract, the vendor shall furnish a Security Deposit amounting to **5%** of the purchase order value in the form of Insurance Surety Bonds, Account Payee,

Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank guarantee from any commercial Banks or payment online of a scheduled bank in the name of Director, IIT Hyd favouring the Director, IIT Hyd.

b. The Security Deposit will be encashed/claimed if the vendor fails to execute the order as per the Purchase Order.

c. The Security Deposit should be valid for a period of 02 Year warranty + 60 days, as the same will extend the same as Performance Bank Guarantee. Hence while preparing the BG, the time required for delivery and installation and warranty + 60 days needs to be accounted for to cover the BG validity period.

d) This Security Deposit will be refunded to the vendor only on satisfactory completion of all contractual obligations as per this Tender and Purchase Order issued against this Tender.

e) Bank Guarantee wherever mentioned in this document may be read as "Bank Guarantee from any Scheduled Bank" only. The Bank Guarantee should be submitted in Hard Copy to IITH and the issuing Bank should send the **IFN 760 COV Bank Guarantee Advice Messages to our bankers through SFMS** (Structured Finance Messaging System). Our Bank details are as follows:

Name of Bank: Canara Bank

Branch: IIT Kandi Campus

Account No: 3458101000222, IFSC Code: CNRB0003458, SWIFT: CNRBINBBBFD.

4. Amalgamation/Acquisition etc.:

In the event the Manufacturer/Supplier proposes for amalgamation, acquisition or sale of its business to any firm during the contract period, the BUYER/Successor of the Principal Company are liable for execution of the contract and also fulfilment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. while submitting your bid, you may confirm this condition.

5. Bid Validity Period:

a. The prices must be valid at least for a period of **120 days** from the date of opening of the Tender. No changes in prices will be acceptable in any condition after opening of tender till the validity of the offer or execution of the order whichever is later

b. IIT Hyd may ask for the BIDDER's consent to extend the period of validity. Such request and the response shall be made in writing only. The BIDDER is free not to accept such request. A BIDDER agreeing to the request for extension will not be permitted to modify his bid.

c. Bid evaluation will be based on the bid prices without taking into consideration the above corrections

6. AWARD OF CONTRACT:

- a. IIT Hyd, shall award the contract to the technically qualified eligible BIDDER whose bid has been determined as the lowest evaluated commercial bid.
- b. If more than one BIDDER happens to quote the same lowest price, IIT Hyd reserves the right to award the contract to more than one BIDDER or any BIDDER.

7. IIT Hyd reserves the right to vary quantities at the time of Award:

- a. IIT Hyd reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the tender document without any change in unit price or other terms and conditions. Further, at the discretion of IIT Hyd, the quantities in the contract may be enhanced by 25% within the delivery period.
- b. Firms which have already supplied similar equipment to IIT Hyd and have not completed required installation/commissioning/after sales service/warranty replacements etc. such firms offer will not be considered for further evaluation and no enquiries thereafter will be entertained.

8. Cargo Consolidation and Customs Clearance:

IIT Hyd has appointed its own Freight Forwarder and Custom House Agent for all the imports. Please note that all the consignments have to be routed through their associates only. The address and contact details will be provided at the time of placing the Purchase Order.

9. Fraud and Corruption:

IIT Hyd requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy,

(a) The terms set forth below are defined as follows:

(i) "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;

(ii) "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;

(iii) "Collusive practice" means a scheme or arrangement between two or more bidders, designed to establish bid prices at artificial, non-competitive levels; and

(iv) Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract

(b) IIT Hyd will reject a proposal for award if it determines that Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent collusive or coercive practices in competing for the Contract in question

10. Interpretation of the clauses in the Tender Document / Contract Document

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, Director, IIT Hyd's interpretation of the clauses shall be final and binding on all parties.

CHAPTER - 3: CONDITIONS OF CONTRACT

1. Prices:

Bid prices should be filled in the appropriate format as mentioned in Price Schedule. All the bidders should quote prices for each and every item/accessory separately

A. Bidders Quoting in Indian Rupees (INR)

(i) The price of the goods must be as per the BoQ.

(ii) The price mentioned in BoQ must be inclusive of transportation, Insurance, loading and unloading and any other local service required for delivering the goods for the desired destination as decided by IIT Hyd. Loading and unloading is strictly in vendor scope. IIT Hyd will not provide any manpower support towards the same.

(iii) The installation, commissioning and training charges (If any) must be mentioned as per the BoQ (if requested separately in BoQ) else the price quoted will be taken as inclusive of installation, commissioning and training.

(iv) The institute will not be responsible in case of the bidders failing to include any of the above mentioned prices in their bid. The price mentioned in the BoQ will be final and the bidder has to comply with that, if awarded the tender.

(v) Unloading of the goods at IIT Hyd is strictly in the scope of the bidder, no manpower will be provided by IIT Hyd.

B. Bidders Quoting in Foreign Currency

(i) The mode of shipment must be clearly mentioned in the BoQ viz Ex-works, FCA, FOB, CIP, DDP etc.

(ii) Courier mode of shipments will not be acceptable. The Shipments must be dispatched under Cargo Mode only.

(iii) The mode of shipment once mentioned cannot be changed without the consent of IIT Hyd.

(iv) Any financial implication leading to change of mode of shipment or any deviation from the bid submitted shall be borne by the bidder.

(v) The charges towards insurance and transportation of the goods and agency commission must be clearly mentioned.

(vi) The installation, commissioning and training charges (If any) must be mentioned as per the BoQ (if requested separately in BoQ) else the price quoted will be taken as inclusive of installation, commissioning and training.

(vii) The institute will not be responsible in case of the bidders failing to include any of the above mentioned prices in their bid. The price mentioned in the BoQ will be final and the bidder has to comply with that, if awarded the tender.

C. IIT Hyd is exempted from payment of Customs Duty under notification No.51/96 dated 23.07.1996. No other charges than those mentioned clearly in the quotation will be paid.

2. Bank Charges:

All Bank charges inside India, including opening of LC, to IIT Hyd Account and all charges outside India to Beneficiary's Account only. In case the BIDDER seeks confirmation of LC such confirmation charges are to the Beneficiary's account.

3. Agency Commission & Services:

a) The Indian Agency commission if any will be payable in Indian currency only after the receipt of consignment in good condition at our Stores and satisfactory installation and commissioning of the ordered equipment.

b) In case of foreign quote, the Principal supplier should clearly indicate the address of the Indian Agent and percentage (%) of Agency Commission and taxes if any payable to him. Such amounts will be paid in Indian Currency to the Indian Agent.

c) Details of services rendered by the Agency/Indian Agent as well as after-sales services offered are to be clearly specified in the bid.

4. **Currency of Payment** - The contract price will be paid in the currency/currencies in which the price is stated in the contract.

5. **Performance Bank Guarantee:** The 5% Security Deposit which is mentioned above (Chapter 2 Point No 3) will be extended as Performance Bank Guarantee for a period of warranty period.

6. **Pre-installation:** The BIDDER has to state in detail the Electrical Power/UPS requirements, floor Space, head room, foundation needed and also to state whether Air-conditioned environment is needed to house the system and to run the tests. i.e. pre-installation facilities required for installation may please be intimated in the technical bid. Subsequently, before the consignment lands in IIT Hyd the bidder shall confirm that the pre-installation requirements are sufficient for installation of the equipment. The BIDDER should continuously monitor the pre-installation requirements and see that everything is ready before the consignment is taken to the site for installation.

7. Installation:

a) BIDDER shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter.

b) Installation demonstration to be arranged by the supplier free of cost and the same is to be done within **three months** of the arrival of the equipment at site, unless otherwise instructed by the Institute

c) After successful installation what will be the minimum down time of equipment/instrument in case of breakdown. If the identified firm or person fails to put the system into working condition what is the further alternative course of action suggested to adhere to minimum down time should be covered in the Technical Bid.

8. Inspection:

- a) The inspection of the system will be done by our technical expert /Scientist in the presence of the firm's representative.
- b) In case of receipt of the material in short supply or damaged condition the supplier will have to arrange the supplies/ replacement of goods free of cost pending the settlement of the insurance case wherever applicable on FOR at the IIT Hyd.

9. **Training:** Wherever needed, Scientist/Technical persons of the Institute should be trained by the supplier at the project site free of cost. In case the person is to be trained at a supplier's site abroad or in India it should be mentioned in the quotation clearly. The supplier should bear all the expenses for such training including 'to & fro' fares and lodging & boarding charges.

10. Warranty / Support:

- a) The items covered by the schedule of requirement shall carry minimum **02 Years warranty** from the date of acceptance of the equipment by IIT Hyd. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts.
- b) The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, local taxes if any should be borne by the beneficiary or his agent. No cost will be borne by IIT Hyd.
- c) The warranty on the associated software should cover providing of upgraded version/s, if any, released during the warranty period free of cost.
- d) The Bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years after the warranty period of the equipment on payment on approved price list basis.
- e) The equipment must be supported by a Service Centre in India manned by the technical support engineers. Also it should be possible to contact the Principal's vendor support Centre on a toll free number/web/mail. The support through this Centre must be available during all working days and hours.
- f) The manufacturer/OEM should facilitate the bidder/Agent on a regular basis with technology / product updates & extend support for the warranty as well.
- g) The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.
- h) The principal vendor must have local logistics support by maintaining spares in the country of deployment of the equipment, with the Indian Agent. This is to ensure immediate delivery of spares parts from the Principal Vendor of equipment to its channel partner/system integrator.
- i) Details of the agency who shall maintain during warranty and undertake Annual Maintenance Contract/Comprehensive Service Maintenance Contract beyond warranty shall be given in the offer.

In case of foreign quote, the Indian Agent who shall maintain during warranty and AMC beyond warranty shall be given in the Technical Offer

j) **Commencement of Warranty Period:** The warranty period of an item shall commence from the date of successful installation, commissioning and demonstration at IIT Hyd. The warranty period and validity of Performance Guarantee shall be extended for the period of delay in satisfactory installation and delay in warranty services.

11. Reasonability of Prices: The prices quoted must be the prices applicable for a premiere Educational and Research Institute of national importance. The bidder must give details of identical or similar equipment, if any, supplied to other IITs/ IISERs/ CSIR lab/ CFTI's during last three years along with the final price paid and Performance certificate from them

12. Annual Maintenance Contract: The bidder must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention, wherever applicable. No sub-contracting will be allowed for installation or maintaining system/ equipment / instrument during or after warranty period.

13. Indemnity: The vendor shall indemnify, protect and save IIT Hyd against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipment's supplied by the bidder/OEM.

14. Freight & Insurance:

a) **Imports:** In case of imports the freight & insurance will be paid by IIT Hyd , if the consignments are shipped through the IIT Hyd nominated freight forwarder (applicable only cases of FCA/FOB shipments).

b) **Indigenous:** The equipment'/items to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at IIT Hyd site in case of Rupee transaction.

15. Payment: - No advance payments are allowed.

A) INDIGENIOUS

For Indigenous items, **80%** payment will be made against Delivery and remaining **20%** after installation, commissioning, training & acceptance by IIT Hyd and submission of Performance Bank Guarantee for the value of **5%** of the order value valid for a period of warranty period plus 60 days..

B) IMPORT

i) Letter of Credit will be established for **100%** order value excluding the Agency Commission due to the Indian Agents. **80%** payment shall be made against the presentation of original Shipping documents to our bankers or as per the LC terms and conditions. Balance **20%** will be released after completion of satisfactory installation, commissioning, demonstration of the whole system to the satisfaction of the Institute/User Scientist Technologist/Indentor/Professor and submission of

Performance Bank Guarantee for the value of **5%** of the order value valid for a period of warranty period plus 60 days.

OR

ii) By Wire Transfer - **80%** payment will be made against Delivery and remaining **20%** after installation, commissioning, training & acceptance to the satisfaction of the Institute/User Scientist /Technologist/Indentor/Professor iii) The payment of local currency portion shall be payable in Indian Rupees, within 30 days after the receipt of the equipment in good condition and after satisfactory installation and commissioning and demonstration.

iii) The payment of local currency portion shall be payable in Indian Rupees, within 30 days after the receipt of the equipment in good condition and after satisfactory installation and commissioning and demonstration.

iv) The Agency Commission to the Indian Agent will be paid in INR only after successful installation, commissioning and satisfactory demonstration and acceptance of the items ordered for by the end user.

16. Liquidity Damage for delayed Services

i) As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to, failing which, IIT Hyd will forfeit SD and also LD clause will be applicable /enforced.

ii) If the supplier fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 0.5% of order value per every week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.

iii) IIT Hyd reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the Security Deposit.

17. Public Procurement (Preference to Make in India), Order 2017:

a) IIT Hyd shall compare all substantially responsive bids to determine the lowest valuated bid. This Institute is following and abide with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCI Order No. P-45021/2/2017-B.E. II dated 15th June 2017 and its subsequent amendments. Accordingly, preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself.

b) As per the above order and its subsequent amendments "Local Content" means the amount of value added in India which shall be value of the item procured (excluding net domestic indirect taxes) minus the value of the imported content in the item (including all the custom duties) as a proportion of the total value, in percent. Accordingly, the suppliers will be classified in following categories.

- i) Class I local Supplier – has local content equal to more than 50%
- ii) Class II local Supplier – has local content equal to more than 20% but less than 50%
- iii) Non Local Supplier – has local content less than 20%

c) **Verification of Local Content:** The Class I Local Supplier /Class II Local Supplier at the time of bidding shall be required to indicate the percentage of local content and provide **self-certification as per** Annexure 'I' that the items offered meet the local content requirement. The details of the location(s) at which the local value addition is made also needs to be specified.

In case of procurement in excess of Rs.10 crores, the suppliers shall be required to provide the certificate from the Statutory auditor or cost auditor of the company giving the percentage of local content.

The bidders can be debarred for a period up to two years as, per Rule 151(iii) of GFR 2017, in case of false declaration.

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 a product, the same shall be referred to competent authority at IITH or the relevant Ministry.

The bidder against whom the complaint is received shall be required to furnish the necessary documentation in support of the domestic value addition claimed in the product to authority. If no information is furnished by the bidder, such laboratories may take further necessary action, to establish the bonafides of the claim

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 Procuring Institute. 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.

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.

18. Requirement of registration: Vide Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

i. Any bidder from a country sharing a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT).

ii. "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.

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

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

For details about registration procedures please visit the above mentioned OM. Mandatory documentary evidence regarding the bidder's registration with DPIIT is to be submitted along with the tender, failing which the tender shall be liable for rejection. Bidders are also requested to submit the Model Certificates **as per Annexure 'J'** for this tender as mentioned in the Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

19. Force Majeure: IIT Hyd may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the Contract, is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.) acts of states, the direct and indirect consequences of wars (declared or undeclared) hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises.

20. Dispute Settlement:

IIT Hyd and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the IIT Hyd or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration.

Arbitration may be commenced prior to or after delivery of the Goods under the Contract. The dispute settlement mechanism/arbitration proceedings shall be concluded as under:

(a) In case of Dispute or difference arising between the IIT Hyd and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director IIT Hyd, if he is unable/ unwilling to act, to the sole arbitration of some other person appointed by his willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.

(b) In the case of a dispute between the Purchase and a Foreign supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. The venue of the arbitration shall be the place from where the purchase order or contract is issued.

21. **Jurisdiction:** The disputes, legal matters, court matters, if any, shall be subject to Hyderabad Jurisdiction only.

Assistant Registrar (S&P)

CHAPTER 4 SCHEDULE OF REQUIREMENTS, SPECIFICATIONS & ALLIED TECHNICAL DETAILS TECHNICAL SPECIFICATIONS

Electron Beam Powder-Bed Fusion (EB-PBF) Machine

1. **Technology:** Electron Beam Powder-Bed Fusion (EB-PBF)
2. **Open system:** The machine hardware/software shall allow the user, after appropriate training, to experiment with new materials and build process parameters without any restrictions or implications on the machine warranty/annual maintenance contract. Any limitations of the machine/technology in terms of successfully processable materials, especially with regard to high gamma-prime nickel-base superalloys such as CM247LC and BZL12Y, shall be clearly indicated in the Technical Bid.
3. **Electron beam unit:**
 - i. Electron source: Single Crystal LaB₆ Cathode or equivalent/superior technology.
 - ii. The unit shall be capable of (i) precise focusing/defocusing and scanning of the beam using electromagnetic coils, and (ii) automatic beam calibration as well as adjustment/control of the beam characteristics such as roundness, size, focus, and position.
 - a) Beam power: 5 kW or more
 - b) Position accuracy: $\pm 50 \mu\text{m}$ or better
 - c) Focus accuracy: $\pm 140 \mu\text{m}$ or better
 - d) Beam diameter: Down to $250 \mu\text{m}$ or smaller
 - e) Beam translation speed: Up to 1000 m/s or higher
4. **Build tank:**
 - i. Shape: Cylindrical or rectangular
 - ii. Size: The build tank shall be large enough to allow fabrication of parts up to 250 mm in diameter and up to 400 mm in height. The machine shall enable vertical stacking of the parts.
 - iii. The machine shall have a provision for interchangeable build tanks.

5. Build environment:

- i. Vacuum for preventing contamination during part fabrication, achieved through a combination of rotary and turbo-molecular pumps.
 - a) Column pressure: 4×10^{-7} mbar or better
 - b) Chamber pressure: 5×10^{-4} mbar or lower
 - c) Build atmosphere: 4×10^{-3} mbar or better

6. Mechanism for mitigating smoking/charge-build up: The machine shall be equipped with an efficient mechanism for preventing “smoking” or charge build-up during part fabrication. The vender shall provide relevant technical details concerning the specific smoking-mitigation mechanism.

7. Powder layering:

- i. The machine shall have a suitable mechanism for regulating the amount of powder for each layer for ensuring sound printing of the parts.
- ii. The powder spreading mechanism shall be tolerant to small variations in powder flowability and shall ensure that the powder layer is uniform in thickness over the entire the build platform.
- iii. Layer thickness: 50 – 100 μm

8. Thermal management:

- i. The machine shall be capable of preheating the powder-bed/part to a temperature of up to 1000°C or higher. The machine shall reliably maintain the chosen preheat temperature throughout part fabrication. The vender shall clearly describe the method/mechanism of powder-bed/part preheating.
- ii. Movable metallic heat shields may be used inside the build chamber for efficient thermal management.
- iii. The machine shall enable controlled and/or accelerated post-build cooling.
- iv. A chiller unit of adequate capacity shall be supplied to prevent overheating of the machine or any sub-systems of the machine.

9. Build materials:

- i. The machine shall be capable of:
 - a) Building sound parts out of plasma/gas atomized spherical powders with an appropriate particle size distribution in the range of 45-106 μm . The machine shall allow the use of non-proprietary/non-standard powder feedstock.
 - b) Processing a wide range of ferrous and non-ferrous metals and alloys, such as Ti-6Al-4V, TiAl, Inconel 718, CoCr, and high-carbon tool steel. Proven process parameter sets/build themes shall be provided free of cost for all the materials for which EB-PBF processing has been successfully demonstrated or commercially implemented till date by the original equipment manufacturer (OEM).
- ii. The machine shall have the potential for successful printing, after necessary process development and optimization, of high gamma-prime nickel-base superalloys such as CM247LC and BZL12Y. The supplier shall provide any available first-hand experimental results/test data in this regard.

10. Microstructure control:

- i. The machine shall enable local control over the part microstructure (especially, the grain structure) and mechanical properties by facilitating region-specific optimization of the process parameters and build strategy.

11. Software and analytics:

- i. The machine shall be supplied with all essential software (slicing software, build processor, and machine control and operation) for preparing the build files in all respects for part printing.
 - a) Modules for determining the optimum build orientation and for generating necessary support structures shall be included.
 - b) The software shall facilitate uploading/import of standard CAD files (.stp file format) and allow the user to define the build strategy and tool path sequencing.

- c) The software shall facilitate changes in build parameters and create user-defined build strategy and process theme.
- d) All software files shall be provided on a CD/DVD/USB for ready backup/reinstallation.
- ii. The machine shall come with a build report generator and analytics software for in-depth analysis and evaluation of each build run. The software shall provide:
 - a) Accurate diagnosis of the root cause of any build failures
 - b) Detailed plot views and statistical summaries for further analysis
- iii. All the software updates during the warranty/annual maintenance contract period shall be supplied and installed on a real-time basis, free of cost to IIT Hyderabad – necessary training on the updated software shall also be provided.
- iv. All software licenses shall be perpetual.

12. Build quality: The machine shall be capable of achieving uniform build quality over the entire part volume. The parts produced shall meet a minimum linear tolerance of ± 0.2 mm.

- i. Porosity: 0.2 vol. % or lower
- ii. Surface roughness (in as-printed condition, S_a): 30 μm or lower

13. Build monitoring:

- i. The machine shall feature a high-resolution camera-based monitoring system or equivalent/superior technology for in-line/real-time part quality monitoring/assessment.
 - a) Resolution: 800 μm or better
 - b) Full build capture
 - c) High-quality contrast for defects
- ii. The machine shall have suitable provision for remote build monitoring.

14. Powder handling and recovery: A dedicated powder recovery system shall be supplied with the EB-PBF machine, which can enable efficient and contamination-free reuse of the unfused powder from each build run.

- i. The system shall include all necessary sub-systems such as powder recovery cabinet,

powder handling trolley, sieving station, cyclone, powder flasks, and industrial vacuum cleaner.

- ii. The system shall minimize cross-contamination of the powders and exposure to external elements.

15. Supply of powder feedstock:

- i. The vender shall supply 100 kg of EB-PBF aerospace grade alloy Ti-6Al-4V (Grade 23) powder with appropriate particle size distribution in the range of 45-106 μm for use during installation/commissioning and demonstrating the capabilities of the machine.
- ii. The vender shall supply EB-PBF grade spherical powders with appropriate particle size distribution in the range of 45-106 μm conforming to nickel-base superalloys CM247LC and BZL12Y (300 kg each). The chemical composition of the powders shall meet the following requirements. Test certificates, confirming the powder composition and size, shall be provided.

Element	CM247LC		BZL12Y	
	Specified (Wt.%)		Specified (Wt.%)	
	Min.	Max.	Min.	Max.
Carbon	0.07	0.08	0.14	0.20
Chromium	8.0	8.5	8.5	10.5
Molybdenum	0.4	0.6	2.7	3.4
Tantalum	3.1	3.3	--	--
Titanium	0.6	0.9	4.2	4.7
Tungsten	9.3	9.7	1.0	1.8
Aluminium	5.4	5.7	5.0	5.7
Boron	0.01	0.02	--	0.015
Zirconium	0.007	0.02	--	--
Cobalt	9.0	9.5	12.0	15.0
Hafnium	1.4	1.6	--	--
Silicon	--	0.03	--	0.3
Sulphur	--	0.001	--	0.01
Iron	--	0.15	--	1.0
Copper	--	0.005	--	0.005
Manganese	--	0.01	--	0.3
Phosphorus	--	0.005	--	0.015
Vanadium	--	0.1	0.5	1.0
Niobium	--	0.1	0.5	1.0
Oxygen	--	10 ppm	--	10 ppm

Nitrogen	--	10 ppm	--	10 ppm
Magnesium	--	80 ppm	--	80 ppm
Bismuth	--	0.5 ppm	--	0.5 ppm
Lead	--	5 ppm	--	5 ppm
Selenium	--	3 ppm	--	3 ppm
Tellurium	--	0.5 ppm	--	0.5 ppm
Thallium	--	5 ppm	--	5 ppm
Silver	50 ppm max. for each individual element; total of all these elements shall not exceed 400 ppm		50 ppm max. for each individual element; total of all these elements shall not exceed 400 ppm	
Tin				
Potassium				
Sodium				
Gallium				
Gold				
Indium				
Germanium				
Cadmium				
Thorium				
Uranium				
Mercury				
Zinc				
Arsenic				
Antimony				
Nickel	--	Balance	--	Balance

16. Safety

- i. The entire system shall comply with EN ISO 12100:2010 and EN 60204-1 or equivalent safety standards in all operational/maintenance aspects.
- ii. The system shall be supplied with all necessary protective enclosures, safety accessories, and safety interlocks.
- iii. The machine shall incorporate necessary safety features for safeguarding the machine and the machine operator while in operation against possible damage and injury. The machine shall automatically shut off or give an early warning to the machine operator in the event of any serious malfunctioning of the machine or its sub-systems.
- iv. The vender shall supply all necessary Personal Protective Equipment (PPE) (at least five sets) and Class-D fire extinguishers (2 numbers).
- v. X-ray radiation leakage from the EB-PBF machine shall be well within the limits

stipulated in the International Safety 2013/59/Euroton standard or equivalent.

17. Installation and commissioning

- i. Installation and commissioning of the machine shall be done by the vender at IIT Hyderabad. All the capabilities/features of the EB-PBF machine shall be clearly brought out and demonstrated at IIT Hyderabad.
- ii. The system layout, foundation drawings, and pre-installation requirements of the machine being offered and its sub-systems shall be enclosed to the Technical Bid.
- iii. The vender shall provide all the necessary peripheral/associated equipment such as on-line uninterrupted power supply (UPS) with batteries (capable of running machine for at least three hours), inert gas bank (complete with line pipes and regulators), chiller with necessary cooling media, compressor for blasting of the printed parts, air conditioning unit, dehumidifier, workstation/desktop computer, working desk, powder storage cabinets, powder flasks, vacuum cleaners, cyclones, powder hopper/build tank lifter, and steel/aluminum ladder.
- iv. IIT Hyderabad will provide suitable site building and necessary electrical power and water supply lines. The vender shall prepare the site in all respects including foundation, vibration or electromagnetic isolation, electrical power points, PVC flooring, false ceiling, and portioning/paneling as appropriate for the allocated machine space.
- v. The vender shall provide the details of:
 - a) All the required utilities/infrastructure such as power, water, and gas.
 - b) Overall dimensions of the unit along with the min. floor area/height of the site for housing the entire system.
 - c) The operating environment for entire the system in terms of temperature, relative humidity, vibration isolation, electromagnetic interference (EMI), and electromagnetic compatibility (EMC).

18. Consumables and spares: The vender shall comprehensively list and accordingly supply all the necessary consumables and spares in adequate quantity to ensure uninterrupted use of

the EB-PBF machine (assuming machine utilization at 12 hours per day) for the entire duration of the warrantee period without any additional costs to IIT Hyderabad. The vender shall also supply all the necessary tools and devices for operation, maintenance, and repair of the machine and its sub-systems.

19. Training: The vender shall provide rigorous hands-on training to the students and technical staff of IIT Hyderabad to enable safe, efficient operation and maintenance of the EB-PBF machine. The training must be compressive, covering all aspects of the machine hardware and software, including:

- i. Machine operation, preventive maintenance, and troubleshooting
- ii. Application development, build optimization, and process control
- iii. Process development and optimization for new materials and non-proprietary powder feedstock
- iv. Training on the build software for basic and advance operations
- v. Specialized maintenance (excluding any critical operations that can only be carried out by the OEM's experienced personnel)
- vi. Operation and maintenance of post-processing equipment for powder recovery and other accessories.

20. Warranty

- i. The entire EB-PBF system must be under unconditional warranty for a period of 24 months from the date of its satisfactory installation, commissioning, and demonstration against all manufacturing defects. If the system is found to be defective during this period, the whole equipment or part thereof will have to be repaired/replaced by the supplier free of cost to IIT Hyderabad.
- ii. During the warranty period, OEM-certified service personnel shall visit IIT Hyderabad at least four times a year (each visit for a duration of at least two days).
- iii. During the guarantee/warranty period, the downtime of the equipment will be recorded with the details of date and type of complaint/fault. The vender shall

satisfactorily fix the problem and ensure that the machine is fully functional and operational within 15 working days from the date of complaint reported. If the problem is not resolved within this period, the warranty period will be extended by the number of days over which the machine remained non-functional/non-operational.

- iv. If the supplier, for any reason, fails to rectify the problem to the satisfaction of IIT Hyderabad or in the event of any persistent and recurring problems that come in the way of satisfactory utilization of the machine at IIT Hyderabad, the supplier shall replace the entire system free of cost to IIT Hyderabad.

21. Documentation: The following documents (two sets of hard copies along with a soft copy in USB drive) in English Language shall be provided to IIT Hyderabad:

- i. User, operation, training, and maintenance manuals of the entire system and sub-systems
- ii. Detailed sketches of the system configuration and administration
- iii. Safety instructions, maintenance schedule, preventive maintenance schedule, and troubleshooting guide
- iv. Standard operating procedures (SOPs) and calibration procedures
- v. User manuals and original software licenses for all the supplied software
- vi. All the data and results of testing and calibration of the entire system at the machine manufacturer's site as well as at IIT Hyderabad
- vii. Certificates of compliance with all safety standards

22. Vender qualification

- i. The OEM or their authorized representative can only bid for this tender. The bidder shall submit a valid letter of authorization from the OEM along with the quotation.
- ii. The EB-PBF machine offered by the vender shall be a proven model in the market and must not be a prototype or developmental system.
- iii. The OEM shall have been engaged in manufacturing and commercial supply of EB-PBF

machines for at least three years.

- iv. The OEM shall have supplied at least three EB-PBF machines globally in the last three years. Customer information should be provided along with the bid.
- v. The OEM is required to submit a letter of commitment, along with the bid, for supply of spares, tools, and consumables as well as for prompt after-sales service of the EB-PBF machine for at least 10 years after the warranty period.
- vi. The OEM shall have an authorized service center or authorized service partner/agency within India. The service center/agency shall deploy well-qualified and OEM-certified engineers and render efficient and prompt on-site training, service, maintenance, and repair of the machine and its sub-systems. The details of the authorized service center/agency and their OEM-certified service personnel shall be provided.
- vii. The OEM shall provide, as and when necessary, efficient remote service and troubleshooting of the machine at IIT Hyderabad through proactive online interactions and engagement.

23. Eligibility criteria

- i. The vender shall clearly bring out the salient technical features and capabilities of their EB-PBF machine. The vender shall highlight the suitability of their EB-PBF machine for successful processing of high gamma-prime nickel-base superalloys such as CM247LC and BZL12Y. The vender shall share their prior experience in EB-PBF processing of superalloys CM247LC and BZL12Y and provide any first-hand experimental results/test data.
- ii. Each vender shall submit a detailed point-by-point compliance statement, highlighting any discrepancies or deviations vis-a-vis the current technical specification and the features/capabilities of the EB-PBF machine on offering.
- iii. The vender shall provide the details of the OEM's principal location and world-wide business operations as well as the details of the service support currently available in India. The vender shall provide an undertaking for service/technical support and timely supply of spares, consumables, and software updates/upgrades for at least 10

years after the warranty period.

24. Acceptance criteria

i. Factory Acceptance Test (FAT)

- a) The vender shall successfully print the items detailed in Appendix – A in superalloy CM247LC or BZL12Y employing a powder-bed preheat/part temperature of at least 1000 °C.
- b) At the factory location, the prints shall be subjected to density measurements (Archimedes method) and visual examination to the satisfaction of the user representative. The prints shall have a relative density of more than 99.5 % and shall be free from visible cracks.
- c) All the items printed during the FAT shall be handed over to IIT Hyderabad for further independent analysis/investigations.
- d) The vender shall provide the factory acceptance report containing all the build information and observations and formally signed by the OEM and the user representative. The report should include serial numbers of all the machine hardware used for the FAT.
- e) The machine shall be shipped to IIT Hyderabad only after satisfactorily completing the FAT requirements.

ii. Site Acceptance Test (SAT)

- a) The vender shall successfully print the items detailed in Appendix – B in superalloy CM247LC or BZL12Y employing a powder-bed preheat/part temperature of at least 1000 °C.
- b) At the site, the prints shall be subjected to density measurements (Archimedes method) and visual examination to the satisfaction of the user representative. The prints shall have a relative density of more than 99.5 % and shall be free from visible cracks.
- c) All the items printed during the SAT shall be handed over to IIT Hyderabad for further independent analysis/investigations.
- d) The vender shall provide the site acceptance report containing all the build information and observations and formally signed by the OEM and the user

representative. The report should include serial numbers of all the machine hardware used for the SAT, which must be the same as those used for the FAT.

25. Deliverables

i. Hardware deliverables

- a) EB-PBF machine along with all the related sub-systems as per the present technical specification in its entirety.
- b) EB-PBF grade spherical powders of Ti-6Al-4V, CM247LC, and BZL12Y as per Para # 15 above.
- c) Consumables and spares as per Para # 18 above.

ii. Software deliverables

- a) All essential software as per Para # 11 above.

iii. Service deliverables

- a) Installation and commissioning of the EB-PBF machine and its sub-systems as per Para # 17 above.
- b) Hands-on training of the students and staff of IIT Hyderabad enabling efficient operation and maintenance of the EB-PBF machine as per Para # 19 above.
- c) Maintenance and servicing of the machine during the warranty period as per Para # 20.
- d) All documentation as per Para # 21.

iv. Delivery period

- a) FAT shall be completed within 6 months from the date of placement of the purchase order.
- b) IIT Hyderabad shall receive the EB-PBF machine and its sub-systems along with the powder feedstock (as per Para # 15 above) within 9 months from the date of placement of the purchase order.
- c) Installation and commissioning of the EB-PBF machine and its sub-systems, SAT, and

training of the personnel at IIT Hyderabad shall be completed within 12 months from the date of placement of the purchase order.

26. **Optional items:** The vender shall separately quote for all the following items as per the format provided in Annexure-M. The quotes for optional items will not be considered for the L1 evaluation.

i. Maintenance contract: The vender shall provide comprehensive maintenance contract (CMC) or Annual Maintenance Contract (AMC) for three years from the date of expiry of the warrantee period.

a) The scope of CMC and AMC shall be separately detailed in the Technical Bid, clearly mentioning all the services and spares/consumables that are covered and not covered in each case. In the case of AMC, the vender shall also provide a list of all essential spares and consumables for keeping stock at IIT Hyderabad.

b) The vender shall separately quote for both CMC and AMC in the Financial Bid.

c) During the CMC or AMC period, the downtime of the equipment will be recorded with the details of date and type of complaint/fault. The vender shall satisfactorily fix the problem and ensure that the machine is fully functional and operational within 15 working days from the date of complaint reported. If the problem is not resolved within this period, the CMC or AMC period will be extended by the number of days over which the machine remained non-functional/non-operational.

ii. Resident engineer: The vender shall deploy a qualified and experienced full-time resident engineer at IIT Hyderabad for at least two years (from the date of satisfactory installation and commissioning of the machine). The monthly cost for the resident engineer shall be provided in the Financial Bid.

iii. Consumables and spares: The vender shall separately quote for supplying all the essential consumables and spares in required quantity for continuous use of the EB-PBF machine after the warranty period.

iv. Additional powder feedstock: The vender shall separately quote for supplying additional quantities of EB-PBF grade CM247LC and BZL12Y powders (as per Para # 15). The cost of powder per kilogram and the minimum order quantity shall be provided

for both CM247LC and BZL12Y.

- v. **Additional build tanks:** The vender shall separately quote for supplying an additional full-size build tank as well as a smaller or reduced-size build tank (suitable for materials development research) for use with the EB-PBF machine being offered.
- vi. **Additional software:** The vender shall separately quote for supplying any additional software that might help with effective utilization of the EB-PBF machine.
- vii. **Additional ancillaries/accessories:** The vender shall separately quote for supplying any additional ancillaries, accessories, or peripherals to the EB-PBF machine being offered to IIT Hyderabad.

Appendix - A

Components to be Printed for Factory Acceptance Test (FAT)

#	Description	Dimensions	Quantity
1	Demonstration component (Circular ring)	Outer diameter: min. 250 mm, Wall thickness: min. 10 mm, Height: min. 10 mm	01
2	Benchmark model (as per the CAD model provided by IIT Hyderabad; a representative picture is shown in Fig.1)	X: 40 mm, Y: 40 mm, Z: 10 mm	01
3	Round cylindrical specimens	Diameter: 10 mm, Height: 110 mm	20

Note: All the components are to be printed using superalloy CM247LC or BZL12Y.



Fig.1. Benchmark model

Appendix - B

Components to be Printed for Site Acceptance Test (SAT)

#	Description	Dimensions	Quantity
1	High-Pressure Nozzle Guide Vane (HPNGV) (no cooling channels) as per the CAD model provided by IIT Hyderabad	X: 85 mm, Y: 140 mm, Z: 115 mm	01
2	Round cylindrical specimens	Diameter: 10 mm, Height: 110 mm	20

Note: All the components are to be printed using superalloy CM247LC or BZL12Y.

For any technical query related to enquiry you may to contact

Prof. Janaki Ram, Dept of MSME, Email: jram@msme.iith.ac.in

For Commercial query

Mr. M Venkatesh -Sr. Assistant Registrar Email: ar.purchase@iith.ac.in

Mr. Ramesh Kumar - Assistant Registrar Email: ar.stores@iith.ac.in

Ms. D Chanchala Devi– Joint Registrar, Email: hos.snp@iith.ac.in

With CC: office.stores@iith.ac.in

CHAPTER 5

UNPRICED TECHNICAL BID

(Bidder should provide the following details on Letter head)

Quotation No :

Date:

Name of the Bidder _____

CPPP bid No. _____

Sr. No	Item Description	Country of Origin	Make & Model	HSN Code	GST %	Qty
1						
2						
3						
n						

Other Terms & Conditions

1	Payment terms	:
2	Delivery Period from the date of Issue of PO	:
3	Warranty	:
4	Any other additional terms	:

ANNEXURE – A

FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS

1	2	3	4	5	6
S. N.	Name of specifications/part / Accessories of tender enquiry As per Chapter 4 of the Tender Document.	Specifications of quoted Model/ Item	Compliance Whether “YES” Or “NO”	Deviation, if any, to be indicated in unambiguous terms	Whether the compliance / deviation is clearly mentioned in technical leaflet/ literature
1					
2					
3					

Note : Bidders are required to fill this table as per the specifications given in the Chapter 4 of this Tender Document. The points needs to be reproduced in the table at Column No 2 and then fill in the relevant details for each specifications. Please attach the Product Brochure..

Signature of the Bidder

Name

Stamp

ANNEXURE – B

Bid Securing Declaration Form

Date: _____

Tender No. _____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported with EMD . -

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of two year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: _____ (insert signature of person whose name and capacity are shown)
in the capacity of _____ (insert legal capacity of person signing the Bid Securing Declaration)

Name: _____ (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

ANNEXURE – C

MANUFACTURER'S AUTHORIZATION & WARRANTY SUPPORT DECLARATION

(ON OEMs Letter head)

Date:

Tender No / GeM bid no:

To
The Director,
Indian Institute of Technology Hyderabad,
Kandi, Hyderabad – 502 284

We, _____ [name of Manufacturer], who are official manufacturers of [Insert type of goods manufactured] having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following goods, manufactured by us [insert name and or brief description of the goods], and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee, warranty, availability of spare parts and AMC support in accordance with the Terms and Conditions of Contract with respect to the Goods offered by the above firm.

Authorized representative of the Manufacturer	Authorized representative Bidder
Signature:	Signature:
Name:	Name:
Address:	Address:
Mobile No:	Mobile No:
Email ID:	Email ID:

ANNEXURE – D

PREVIOUS SUPPLY ORDER LIST FORMAT

Order placed by <i>{Full address of Purchaser}</i>	Order No. and Date	Description and quantity of ordered equipment	Value of order	Date of completion of delivery as per contract	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any and justification for price difference of their supply order & those quoted to us.	Has the equipment been installed satisfactorily? <i>{Attach a certificate from the Purchaser/ Consigner}</i>	Contact Person along with Telephone no., Fax no. and e-mail address.

Signature and Seal of the Manufacturer/ bidder

Place:

Date:

ANNEXURE – E

BIDDER INFORMATION FORM

Company Name : _____

Registration Number : _____

Registered Address : _____

Name of Partners /Director: _____

City : _____

Postal Code : _____

Company's Establishment Year : _____

Company's Nature of Business : _____

Company's Legal Status 1) Limited Company
(tick on appropriate option) 2) Undertaking
 3) Joint Venture
 4) Partnership
 5) Others (In case of Others please specify)

Company Category 1) Micro Unit as per MSME
 2) Small Unit as per MSME
 3) Medium Unit as per MSME
 4) Ancillary Unit
 5) SSI
 6) Others (In case of Others please specify)

CONTACT DETAILS

Contact Name : _____

Email Id : _____

Designation : _____

Phone No : (____) _____

Mobile No : _____

BANK DETAILS

Name of Beneficiary : _____

A/c. No. CC/CD/SB/OD: _____

Name of Bank : _____

IFSC NO. (Bank) : _____

Branch Address and Branch Code: _____

Other Details

PAN No. _____

GST No. _____

GeM Registration (If available) _____

ANNEXURE – F

DECLARATION REGARDING CLEAN TRACK/NO LEGAL ACTION

(to be provided on letter head of the firm)

I hereby certify that our firm namely _____ is neither blacklisted by any Central/State Government/Public Undertaking/Institute nor 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 of the details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

OR

I hereby certify that our firm namely _____ was blacklisted by _____ for a period of _____ years/months at the Institute Level/ All Indian Level.

Date:

Authorized Signatory

Name:

Place:

Designation:

Contact No.:

ANNEXURE – G

ACCEPTANCE OF TENDER TERMS
(To be given on Company Letter Head)

Date: DD/MM/YYYY

To,
The Director
Indian Institute of Technology Hyderabad
Kandi – 502 285.Telangana, India

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned ‘Tender’ from the web site(s) namely _____ as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc .,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

ANNEXURE – H

NO RELATIONSHIP CERTIFICATE

(On Company Letterhead)

1. I/We hereby certify that I/We* am/are* related/not related(*) to any officer of IIT Hyderabad. (If Related provide the details of the employee)
2. I/We* am/are* aware that, if the facts subsequently proved to be false, my/our* contract will be rescinded with forfeiture of E.M.D and security deposit and I/We* shall be liable to make good the loss or damage resulting from such cancellation.
3. I//We also note that, non-submission of this certificate will render my / our tender liable for rejection.

Date:

Authorized Signatory

Name:

Place:

Designation:

Contact No.:

Declaration for Local Content from OEMs Letter Head

**(To be given on Company Letter Head - For tender value below Rs.10 Crores)
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 Crores)**

Date: _____

To,
The Director,
Indian Institute of Technology Hyderabad,
Kandi, Sangareddy 502284

Sub: Declaration of Local content

Tender Reference No: _____

Name of Tender / Work: - _____

1. Country of Origin of Goods being offered: _____

2. We hereby declare that items offered has ___% local content (**Please provide exact %**).

3. Details of location at which local value addition will be made / made: (Complete address to be mentioned) _____

“Local Content” means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

*“*False declaration will be in breach of 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.”*

**Yours Faithfully,
(Signature of the Bidder/OEM, with Official Seal)**

ANNEXURE – J

CERTIFICATE
ON COMPANY LETTERHEAD

CERTIFICATE BY BIDDER- DPIIT REGISTRATION

“ I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, / if from such a county, has been registered with the Competent Authority (copy of the Registration Certificate enclosed) . I hereby certify that his bidder fulfils all requirements in this regard and is eligible to be considered.

Signature with Date and Stamp
Of the Bidder

ANNEXURE - K

FORMAT FOR PERFORMANCE BANK GUARANTEE

To
Indian Institute of Technology Hyderabad.
Kandi, Sangareddy 502284

Dear Sirs,

In consideration of the Indian Institute of Technology Hyderabad (hereinafter referred to as the "Buyer" which expression shall unless excluded by or repugnant to the context or meaning thereof, include its successors administrators and assigns) having issued to (Name of the seller) with its Registered / Head Office at (hereinafter referred to as the "Seller" which expression shall unless excluded by or repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) an order bearing Purchase Order No. dated and the same having been unequivocally accepted by the seller resulting into a Contract between the buyer and the seller for supply of, more fully described in the said Purchase Order and the buyer in terms of one of the provisions of the said Purchase Order and whereas the Seller has undertaken to produce a Bank Guarantee amounting to Rs. _____, which is ___% of the Contract value in aggregate for Performance and Warranty to the Buyers.

We, the _____ bank hereby expressly, irrevocably and unreservedly undertake the guarantee as Principal obligators on behalf of the SELLER that, in the event that the BUYER declares to us that the amount claimed is due by way of loss or damage caused to or would be caused or suffered by the BUYER by reason of breach/failure to perform by the said SELLER of any of the terms and conditions in the contract related to the Performance and Warranty clauses, we will pay you, on demand and without demur, all and any sum up to (___% of the contract value) Rs. _____ only at any one instance under this Guarantee. Your written demand shall be conclusive evidence to us that such repayment is due under the terms of the said contract. We shall not be entitled to ask you to establish your claim or claims under this guarantee but will pay the same forthwith without any protest or demur. We undertake to effect the payment upon receipt of such written demand.

We shall not be discharged or released from the undertaking and guarantee by any arrangements, variations made between you and the SELLER, indulgence to the SELLER by you, or by any alterations in the obligations of the SELLER or by any forbearance whether as to payment, time performance or otherwise.

We further agree that any such demand made by the BUYER on the Bank shall be conclusive, binding, absolute and unequivocal notwithstanding any difference or dispute or controversy that may exist or arise between you and the Seller or any other person.

In no case shall the amount of this guarantee be increased.

This Performance-cum-Warranty guarantee shall remain valid for a period until 60 days beyond the warranty period i.e. up to _____

Subject to the terms of this Bank Guarantee , the issuing bank hereby irrevocably authorizes the beneficiary to draw the amount up to Rs. _____ (___% of the total contract value) for breach/failure to perform by the Seller of any of the terms and conditions of the contract related to performance and warranty clause. Notwithstanding anything mentioned herein, the total drawings under the Guarantee by the buyer shall not exceed ___% of the total contract value. Partial drawing and multiple drawings under this Bank Guarantee are allowed within the cumulative amount and subject to each such drawing not exceeding ___% of the contract value.

This guarantee shall be a continuing guarantee and shall not be discharged by any change in the constitution of the Bank or in the constitution of M/s. _____. We undertake not to revoke this guarantee during the currency except with previous consent of BUYER in writing.

Notwithstanding anything contained herein above:

- a) Our liability under this Guarantee shall not exceed Rs. _____ (Rupees_____only (in words)
- b) This Bank Guarantee shall remain valid until 2 months from the date of expiry of warranty period of the contact i.e. up to _____ (mention the date) which is 2 months after expiry of the warranty period and the BG shall cease to be valid after _____ irrespective whether the Original Bank Guarantee is returned to us nor not.
- c) We are liable to pay guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written demand or a claim in writing on or before _____ (Expiry Date)

Dated the _____ day of _____ (month and year)

Place

Signed and delivered by _____ (name of the bank)

Through its authorized signatory
(Signature with Seal)

ANNEXURE –L

PRE-CONTRACT INTEGRITY PACT

General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on----- between, on one hand, the President of India acting through Shri [REDACTED], Designation of the officer, Ministry / Department, Government of India (hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise required, his successors in office and assigns) of the First part and -----represented by ----- (hereinafter called the “BIDDER/ Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government of India/PSU performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered in with a view to : -

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the BUYER

- 1.1. The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, with demand, take a promise for or accept, directly or through intermediaries, any

bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

- 1.2. The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3. All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERS

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage to secure the contract or in furtherance to secure it and in particular commit itself to the following: -
 - 3.1. The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
 - 3.2. The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage commission, fees, brokerage or inducement o any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the Government.
 - 3.3. BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.

- 3.4. BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
 - 3.5. The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity of the defence stores and has not engaged any individual or firm or company whether India or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
 - 3.6. The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
 - 3.7. The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
 - 3.8. The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
 - 3.9. The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
 - 3.10. The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
 - 3.11. The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
 - 3.12. If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.
 - 3.13. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.
 - 3.14. The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.
4. **Previous Transgression**
- 4.1. The BIDDER declares the no previous transgression occurred in the last three years immediately before signing of the Integrity Pact, with any other company in any country in

respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.

4.2. The BIDDER agrees that if it makes an incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

5.1. While submitting a commercial bid, the BIDDER shall deposit an amount Rs. **32,26,000/-** (to be specified in RFP) as Earnest Money/Security Deposit, with the BUYER through any of the following instruments:

(i) Bank Draft in favour of Indian Institute of Technology Hyderabad

(ii) A confirmed guarantee by an Indian Nationalised Bank, promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.

(iii) Any other mode or through any other instruments (to be specified in the RFP).

5.2. The Earnest Money / Security Deposit shall be valid up to a period of five years or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period, whichever is later.

5.3. In case of the Implementing Agency a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions of Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

5.4. No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6. Sanction for Violations

6.1. Any breach of the aforesaid provisions by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required: -

(i) To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

(ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.

(iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.

(iv) To recover all sums already paid by the BUYER, and in case of an Indian Bidder with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

(v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments already made by the buyer, along with interest.

(vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

(vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.

(viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.

(ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.

(x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this Pact also on the commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor (s) appointed for the purposes of this Pact.

7. Fall Clause

7.1. The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact of payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

9. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

10. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

11. Validity

11.1. The validity of this Integrity Pact shall be from date of its signing and extend up to 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

11.2. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

12. The parties hereby sign this Integrity Pact at Pune on July 24, 2023

Buyer

Bidder

Name of the Officer

Name of the Officer

Designation

Designation

Deptt./MINISTRY/PSU

Witness

Witness

1. _____

2. _____

Quote for Optional Items: The vendor shall quote for all the following items.

The quotes for optional items will not be considered for the L1 evaluation.

S.No.	Item	Cost	GST	Total	Remarks
01	CMC				
02	AMC				
03	Resident Engineer				
04	Consumables and Spares				
05	Additional Powder Feedstock				
06	Additional Build Tanks				
07	Additional Software				
08	Additional Ancillaries/Accessories				

Checklist for BIDDERS

BIDDERS to indicate whether the following are enclosed/mentioned by striking out the non-relevant option

Envelope-1(Technical & Commercial -Bid) (Following documents to be provided as single PDF file)				
Sl. No.	Documents	Content	File Types	Document Attached
1		Format of compliance statement of specification as per Annexure-'A'	.PDF	(Yes /No)
2		Bid Securing Declaration as per Annexure-'B'	.PDF	(Yes /No)
3		Manufacturer's Authorization Form as per Annexure-'C'	.PDF	(NA)
4		Previous supply order format as per Annexure-'D'	.PDF	(Yes /No)
5		Bidder Information form as per Annexure-'E'	.PDF	(Yes /No)
6		Declaration Regarding Clean Track/No Legal Action as per Annexure-'F'	.PDF	(Yes /No)
7		Acceptance of Tender Terms as per Annexure- 'G'	.PDF	(Yes /No)
8		Relation Certificate as per Annexure- 'H'	.PDF	(Yes /No)
9		Local Content Declaration as per Annexure 'I'	.PDF	(Yes /No)

10		Certificate For DPIIT Registration as per Annexure - 'J'	.PDF	(Yes /No)
11		Format for Performance Bank Guarantee as per Annexure - 'K'	.PDF	(Yes /No)
		Integrity Pact Annexure - 'L'	.PDF	(Yes /No)

		Quote for Optional Items as per Annexure – ‘M’		(Yes /No)
12		Bill of Material as Per Chapter 5	.PDF	(Yes /No)
13		List of deliverables as per Chapter-4, along with the Technical Brochures and Commercial Terms and Conditions	.PDF	(Yes /No)
14		All other documents as per Chapter 1 Point No - 4.1.	.PDF	(Yes /No)