

**TENDER FOR SUPPLY OF  
INERT GAS ATOMIZED SPHERICAL METAL POWDERS SUITABLE FOR  
POWDER BED FUSION ADDITIVE MANUFACTURING**

Quotations should be **submitted in two parts (Technical and Price Bid)**, each individually sealed and put in a bigger sealed cover superscripted with **“Tender for inert gas atomized spherical metal powders suitable for powder bed fusion additive manufacturing”** and **TENDER REFERENCE NO.**

Please send offers, **ALONG WITH ALL NECESSARY DOCUMENTS AS REQUIRED.** The validity of the bid should be at least four months (120 days) or more from the date of the opening of this tender. Please ensure that your quotation reaches not later than **07.09.2020 (Monday) at 13:00 Hrs (IST)** at the following address:

**Prof P Saha,  
PI, ETH Project  
DHI Centre of Excellence on Advanced Manufacturing  
Technology  
5th floor, CRR BUILDING  
Indian Institute of Technology Kharagpur,  
721 302, West Bengal, India**

Tender Reference	<b>IIT/SRIC/CoE_AMT/2020/ETH/04, dated 14/08/2020</b>
Tender Fee and EMD	<b>NIL</b>
Last Date and Time for submitting the tender document	<b>07.09.2020 (Monday) at 13:00 Hrs (IST)</b>
Time and Date of Opening of Technical Bids	<b>07.09.2020 (Monday) at 15:00 Hrs (IST)</b> (in Mechanical Engineering Department conference Room)
Time and Date of Opening of Commercial Bids of technically qualified vendors	<b>07.09.2020 (Monday) at 16:00 Hrs (IST)</b> (in Mechanical Engineering Department conference Room)
Preferred enclosures:	Past supply reference for similar powders (if any)
Place of Opening Tender	Mechanical Engineering Department conference Room, Indian Institute of Technology Kharagpur, West Bengal, India - 721 302.

Address of Communication	<b>Prof P Saha, PI, ETH Project DHI Centre of Excellence on Advanced Manufacturing Technology, 5th floor, CRR BUILDING Indian Institute of Technology Kharagpur, 721 302, West Bengal, India</b>
Contact Telephone Numbers	<b>+91- 3222 – 281926 Mobile: +91-9434051944</b>
E-mail	<b>psaha@mech.iitkgp.ac.in,</b>

## Appendix-1

### BOQ (Metal Powder):

Following inert gas atomized spherical-shaped metal powder grades suitable for powder bed fusion additive manufacturing are to be supplied:

Sl. No	Powder grade	Powder composition	Powder particle size	Quantity to be supplied
1	Stainless Steel 420	Balance Fe, 12.0-14.0% Cr , 1.0% max Mn, 1.0% max Si, 0.3-0.4% C, 0.040% max P, 0.030% max S	15 to 45 µm	25 kg
2	Lean Steel alloy	Balance Fe, 0.8-1.1% Cr , 0.75-1.00% Mn , 0.38-0.43% C, 0.15-0.35% Si, 0.15-0.25% Mo , 0.035% max P, 0.040% max S	15 to 45 µm	25 kg
3	Steel Alloy 16MnCr5	Balance Fe, 1-1.3% Mn, 0.8-1% Cr , 0.15-0.2% C, 0.15-0.4% Si, 0.035% max P, 0.040% max S	15 to 45 µm	25 kg

### **Delivery:**

25 Kg of each material to be supplied immediately within 8 weeks of time on receipt of the P.O.

## GENERAL TERMS & CONDITIONS

PLEASE SPECIFICALLY INDICATE THE FOLLOWING POINTS IN YOUR QUOTATIONS AND COMPLY THE TERMS AS MENTIONED HEREUNDER: -

1. TENDERS ARE INVITED COMPLYING THE REQUIREMENT FOR TENDER AS DETAILED IN THE TENDER SPECIFICATION TO BE SUBMITTED IN THE COMPANY'S / FIRM'S LETTERHEAD NEATLY PRINTED /TYPED DULY SIGNED BY AUTHORIZED PERSON WITH THE SEAL OF THE BIDDERS. ALL ENVELOPES CONTAINING THE TENDER SHOULD BE PROPERLY SEALED. SEPARATE ENVELOPS SHOULD BE USED FOR TECHNICAL AND PRICE BID AND INDICATION TO THEIR EFFECT MAY PLEASE BE SUPERSCRIBED ON THE ENVELOPE.
2. **THE FOLLOWING DOCUMENTS ARE REQUIRED FROM THE INDIAN AGENTS OF FOREIGN FIRMS (in case bidder would like to participate on behalf of some foreign suppliers):**
  - a. FOREIGN PRINCIPAL'S PROFORMA INVOICE INDICATING THE COMMISSION PAYABLE TO THE INDIAN AGENT AND NATURE OF AFTER SALES SERVICE TO BE RENDERED BY THE INDIAN AGENT.
  - b. COPY OF THE AGENCY AGREEMENT WITH THE FOREIGN PRINCIPAL INDICATING THE NATURE OF AFTER SALES SERVICES, PRECISE RELATIONSHIP BETWEEN THEM AND THEIR MUTUAL INTEREST IN THE BUSINESS.
  - c. TECHNICAL CATALOGUE/LEAFLET SHOULD BE ENCLOSED WITHOUT FAIL. PROVIDE COMPLIANCE STATEMENT WITH RESPECT TO THE TECHNICAL SPECIFICATIONS MENTIONED ABOVE.
  - d. PLEASE CONFIRM WHETHER YOU ARE AUTHORISED TO QUOTE ON BEHALF OF YOUR PRINCIPALS AND IF SO, PLEASE ENCLOSE A COPY OF SUCH AUTHORISATION WITH YOUR QUOTATION.
3. **PRICE BIDS FOR FOREIGN FIRMS:** PRICES ARE TO BE QUOTED ON 'EX-WORKS' DULY PACKED OR ON "FCA/FOB" INTERNATIONAL PORT" BASIS AND ALSO INCLUDING AGENCY COMMISSION PAYABLE TO YOUR INDIAN AGENTS, IF ANY, SHOWING CLEARLY THE FOLLOWING BREAK UP:-
  - a. EX-WORKS PRICE
  - b. PACKING & FORWARDING
  - c. FREIGHT
  - d. TAXES PAYABLE BY THE INSTITUTE
  - e. INSURANCE WILL BE PAID BY OUR INSTITUTE SEPARATELY AND SHOULD NOT FORM PART OF THE QUOTED PRICE.
4. **PRICE BIDS FOR INDIAN FIRMS:** PRICES ARE TO BE QUOTED ON F.O.R., IIT KHARAGPUR, ON DOOR DELIVERY BASIS CLEARLY SHOWING THE BREAK UP.
5. **PERIOD OF VALIDITY:** BIDS SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD OF 120 DAYS FROM THE DATE OF OPENING.
6. INDIAN AGENTS ADDRESS AND PERCENTAGE OF AGENCY COMMISSION INCLUDED IN ABOVE F.O.B./EX-WORKS PRICE. (THIS WILL BE PAID TO THE INDIAN AGENTS IN INDIAN RUPEES ONLY AND NOT IN FE). PLEASE ENCLOSE COPY OF AGENCY AGREEMENT ENTERED INTO WITH YOUR PRINCIPALS INDICATING THE NATURE OF AFTER SALES SERVICES OF INDIAN AGENTS, PRECISE RELATIONSHIP & MUTUAL INTEREST IN THE BUSINESS.

7. **MEASUREMENTS/WEIGHT:** NET/GROSS OF THE CONSIGNMENT. IN CASE OF AN ORDER, YOU SHALL USE AIR WORTHY PACKAGE (AS APPLICABLE) DULY CERTIFIED WITH DOCUMENTS – PLYTO – SANITARY CERTIFICATE (AS PER QUARANTINE ORDER 2003).
8. **SCOPE OF SUPPLY: DOOR-STEP, IIT Kharagpur, India**
9. **PAYMENT TERMS FOR FOREIGN FIRMS**
10. THE OFFER WILL BE MADE ON A SINGLE CURRENCY AND ONLY ONE PO MAY BE ISSUED FOR THE ENTIRE SCOPE OF THE SUPPLY.
  - i. 100% PAYMENT THROUGH SIGHT DRAFT/FOREIGN DEMAND DRAFT/LC (EXCEPTIONAL CASES)/SWIFT TELE TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION.
  - ii. BANK CHARGES ON LC/SD (WITHIN INDIA APPLICANT ACCOUNT AND OUTSIDE INDIA TO BENEFICIARY ACCOUNT).
11. **PAYMENT TERMS FOR INDIAN FIRMS**
  - i. 100% PAYMENT THROUGH CROSSED ACCOUNT PAYEE CHEQUE / ELECTRONIC TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER & CONDITION AND SUCCESSFUL INSTALLATION & COMMISSIONING.
  - ii. ENSURE MENTIONING
    - i. BANK DETAILS OF THE BENEFICIARY, GST NO. AND PAN NUMBER
    - ii. FULL NAME AND ADDRESS OF THE BENEFICIARY ON WHOM ORDER HAS TO BE PLACED
  - iii. WHETHER ANY EXPORT LICENCE IS REQUIRED FROM FOREIGN GOVERNMENT, IF SO, PLEASE CONFIRM WITH DETAILS.
12. COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.
13. THE INSTITUTE SHALL PROVIDE THE CONCESSIONAL CUSTOMS DUTY AND EXCISE DUTY EXEMPTION CERTIFICATE AS PER GOVT. NOTIFICATION NO. 51/96 CUSTOMS DATED: 23.07.1996 AND CENTRAL EXCISE DUTY EXEMPTION IN TERMS OF GOVT. NOTIFICATION NO. 10/97 – CENTRAL EXCISE DATED: 01.03.1997 AS AMENDED FROM TIME TO TIME.
14. **LIQUIDATED DAMAGES:** THE STORES SHOULD BE DELIVERED/ DISPATCHED TO DESTINATION AND READY FOR OPERATION NOT LATER THAN THE DELIVERY DATE SPECIFIED. IF THE SUPPLIER FAILS TO DELIVER ANY OR ALL THE STORES OR PERFORM THE SERVICE BY THE SPECIFIED DATE, LIQUIDATED DAMAGES AT 1% PER MONTH OR PART THEREOF IN RESPECT OF THE VALUE OF STORES WILL BE DEDUCTED FROM THE CONTRACT PRICE SUBJECT TO A MAXIMUM OF 5%. ALTERNATIVELY, THE ORDER WILL BE CANCELLED AND THE UNDELIVERED STORES PURCHASED FROM ELSEWHERE AT THE RISK AND EXPENSE OF SUPPLIER.
15. **PATENT RIGHTS:** THE SUPPLIER SHALL INDEMNIFY THE PURCHASE AGAINST ALL THIRD PARTY CLAIMS OF INFRINGEMENT OF PATENT, TRADEMARK OR INDUSTRIAL DESIGN RIGHTS ARISING FROM USE OF THE GOODS OR ANY PART THEREOF IN INDIA.
16. ONLY THOSE BIDDERS WHO'S BIDS HAVE BEEN TECHNICALLY FOUND ACCEPTABLE WILL ONLY
17. BE INVITED FOR PARTICIPATION IN THE PRICE BID.

18. THOSE BIDDERS WHO DO NOT RECEIVE ANY COMMUNICATION FOR PARTICIPATION IN PRICE BID OPENING MEETING MAY PRESUME THAT THEIR BID HAS NOT BEEN ACCEPTED BY THE INSTITUTE.
19. CONDITIONAL OFFER WILL NOT BE ACCEPTED.
20. LATE TENDERS I.E. TENDER RECEIVED AFTER THE DUE DATE AND TIME OF SUBMISSION AS MENTIONED ABOVE SHALL NOT BE ACCEPTED.
21. THE INSTITUTE DOES NOT BIND ITSELF TO OFFER ANY EXPLANATION TO THOSE BIDDERS WHO'S
22. TECHNICAL BID HAS NOT BEEN FOUND ACCEPTABLE BY THE EVALUATION COMMITTEE OF THE INSTITUTE.
23. ALL TENDERS (UNLESS OTHERWISE SPECIFIED) ARE TO BE SUBMITTED / HANDED OVER TO  
**Prof P Saha,  
PI, ETH Project  
DHI Centre of Excellence on Advanced Manufacturing Technology  
5th floor, CRR BUILDING  
Indian Institute of Technology Kharagpur,  
721 302, West Bengal, India.**  
AND ACKNOWLEDGEMENT TO BE OBTAINED.

## **IMPORTANT**

1. IIT Kharagpur authority may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The Institute at its discretion may change the quantity/ upgrade the criteria/ drop any item or part thereof at any time before placing the Purchase Order.
2. Part ordering and/ or ordering on multiple vendors may be done and the same shall be under sole discretion of the Institute.
3. Promptly make arrangements for repair and/ or replacement of any damaged item (s) irrespective of settlement of claim.
4. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
5. For any query pertaining to this bid document correspondence may be addressed to

**Prof P Saha,  
PI, ETH Project  
DHI Centre of Excellence on Advanced Manufacturing Technology  
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Indian Institute of Technology Kharagpur 721 302,  
West Bengal, India  
E-mail: [psaha@mech.iitkgp.ernet.in](mailto:psaha@mech.iitkgp.ernet.in)**

**LAST DATE FOR SUBMISSION OF SEALED BIDS: 07.09.2020 (Monday) at 13:00 Hrs (IST)**

- a. Please note that the Institute remains closed during Saturdays & Sundays and all specified government holidays.
- b. Fax, e-mail Tender will not be accepted.
- c. The General Terms and Conditions as stated above relate to supply of stores/ equipment/ assets etc. and for specific service other terms and conditions of the Institute will apply.