



MISHRA DHATU NIGAM LIMITED

A Government of India Enterprise, Ministry of Defence
P.O. Kanchanbagh, Hyderabad – 500 058, Telangana, India
Phone: 040 – 24184578/24184348, Website: www.midhani-india.in

Invites

**EXPRESSION OF INTEREST (EOI) FOR
"MACHINING AND CMM INSPECTION OF INCONEL-100 AS CAST DIES
FOR ISOTHERMAL FORGING OF SU-30 ENGINE".**

EOI Ref No: MDN/PUR/EOI/ ISOTHERMAL FORGING/2025-26,

Date: 13-08-2025

Start of EOI Document: 13-08-2025

Receipt of Response on/before: 27-08-2025, 1030 Hrs, IST.

Opening of bids / responses: 27-08-2025, 1100 Hrs, IST.

Note:

- All Bidders/ Applicants need to submit the required Documents as listed in Sealed Cover on or before 27-08-2025 by 10:30 Hrs, IST.
- Any Corrigendum to the EOI shall be published in MIDHANI website only, www.midhani-india.in

List of Documents: -

S. No	Document Description
1.	Invitation to EOI
2.	Annexure I: Specification and Scope of Work
3.	Annexure II: Terms and Conditions
4.	Annexure-III: Eligibility Criteria
5.	Annexure IV: Application form

INVITATION TO EXPRESSION OF INTEREST (EOI)

1. INTRODUCTION AND OBJECTIVE:

Mishra Dhatu Nigam Limited (MIDHANI), a Defence Public Sector company has been playing a very active role in development and manufacture of strategic materials for various sectors. MIDHANI is a unique integrated metallurgical plant located in Hyderabad, Telangana, INDIA. It has wide manufacturing facilities for manufacture of Special steels, Super alloys and Titanium alloys in various forms and sizes. Our annual turnover is about Rs. 1000 Crore. More information can be found on www.midhani-india.in Further, MIDHANI has commissioned several projects and few of them are 3000 mm Wide Plate Mill, Skull Melting Furnace, Spring Manufacturing facilities etc.,

MIDHANI desires to find out new Suppliers/Sources of MACHINING AND CMM INSPECTION OF INCONEL-100 AS CAST DIES FOR ISOTHERMAL FORGING OF SU-30 ENGINE to enhance our existing Vendor base.

2. TECHNICAL SPECIFICATION: As per Annexure – I. Total quantity for EOI is 60 No's.

3. TERMS AND CONDITIONS: As per Annexure – II.

4. ELIGIBILITY CRITERIA-As per Annexure-III.

5. CLARIFICATION & SUBMISSION OF BIDS:

Clarification if any may be sought from rajkumar@midhani-india.in ; kmukesh@midhani-india.in ; spreddy@midhani-india.in

Requests for updating the status on evaluation will not be entertained. Duly filled in bids along with the relevant Document shall be sent to the following Address:

**Additional General Manager (I/c Purchase),
MISHRA DHATU NIGAM LIMITED,
Corporate Office, Kanchanbagh (PO),
Hyderabad – 500 058, Telangana, INDIA.**

6. SUBMISSION OF DOCUMENTS ALONG WITH EOI:

The bidder qualifying the above Criterion shall submit the following documents:

- (a) Company brochure
- (b) Certificates of Accreditations, if any
- (c) GST, PAN, TAN, etc.,
- (d) Application form as per Annexure I
- (e) Supporting documents indicating the past activities / records
- (f) Documents required as per eligibility criteria

5. EVALUATION OF EOI RESPONSES: Responses to EOI shall be evaluated as per Eligibility Criteria given in EOI and shall be approved by the Competent Authority, MIDHANI.

6. TERMS & CONDITIONS:

- (a) MIDHANI reserves the right to accept or reject any Application/bid without assigning any reasons thereof.

- (b) Final Selection of the suitable Applicant/Applicants will be at the sole discretion of MIDHANI and it shall be final.
- (c) The selected Applicant/Applicants shall comply with all Government Regulations/Guidelines & Statutory requirements in force at any period in INDIA.
- (d) Eligible bidders are advised to study all the referred documents carefully before indicating Acceptance.
- (e) Midhani reserves the right to modify the terms and conditions of this EOI and issue an amendment/corrigendum.

(A) TECHNICAL SPECIFICATIONS & SCOPE OF WORK

(1) INPUT: As Cast and softened Ni based Inconel-100 super alloy with major chemistry 60% Nickel, 10% Chromium, 15% Cobalt, 3% Molybdenum & 5% Titanium in the form of as cast solid cylindrical disc(s) shall be issued for machining to realize required profile as per given drawings. The material issued shall have higher toughness and hardness in the range of around 450BHN.

(2) OUTPUT: Suppliers has to machine the disc(s) issued as per approved drawings. These drawings with soft copy and 3D views will be provided to the party to realize the components. Machinability of this material is very poor, a maximum of 0.1mm depth of cut shall be possible as per our experience with hard face tungsten carbide/ceramic tools and shall require special tools, desired machining parameters with forced coolant flow for machining of aforesaid material. Since the material is produced through casting route, there would be blow holes and high dense particles on the surface which may affect the tool life and hence machining shall be planned keeping in view of anticipated hard impurities.

The complete machining sequence shall be,

(i) Block up through milling with a stock of 1-2mm per side on diameter as well as on thickness of disc.

(ii) Surface grinding and cylindrical grinding to ensure parallelism of <0.1mm between the opposite faces. MIDHANI will inspect the parallelity after the Surface grinding activity.

(iii) Final profile machining through CNC milling as per sequence to achieve required profile of drawings issued.

(iv) Since the required profile is critical in shape and hence machining of die(s) shall be finished in single setting to avoid mismatches in realizing the desired profile.

(v) Machining through Electro Discharge Machining (EDM) is not allowed as the profile is very complex in shape and an important source of environmentally harmful by products extracted in the form of slurry through filtering system of machine consists of particles of the eroded workpiece and electrodes, products of dielectric fluid decomposition and filter wear couldn't be reused for re-melting process.

(vi) Surface finish of machined dies shall be better than 3.2µm Ra.

Table (1) of below indicates the details of input issued and output required with corresponding drawing numbers.

Table(1)

S.No.	Qty, Nos	Grade	Minimum Job Weight, kg	Maximum Job Weight, kg	Input Size, mm
1	60	Inconel-100	200	600	Diameter – 500 to 750 Height – 120 to 200

(4) IDENTIFICATION: Engraving of Grade, Top/Bottom, Part No, Die type etc. on outer diameter as per the requirement of MIDHANI to be carried out on the machined component.

(6) PROCESS LOSS: Generated scrap in the form of chips during machining should be kept separately and has to be returned to MIDHANI along with machined dies. However, a maximum of 5% process loss on generated scrap is acceptable.

(7) DELIVERY PERIOD: 06-08 no's of Inconel-100 discs as free issue material (FIM) will be issued for machining in single batch. **The dies shall be machined by the firm within 120 days from receipt of FIM material from MIDHANI.** Time is essence of this order. The machined dies shall be supplied within specified time line requirements to meet the schedules of ongoing project. ~~Combined L1 of set will be considered for order placement. Order may be split between two to three parties provided the parties matches the price of L1 and terms and conditions of PO.~~

(8) PACKING & TRANSPORTATION: The firm shall arrange to collect the free issue material and deliver the machined dies to MIDHANI along with the scarp generated. **The machined dies shall be wrapped with a hard case bubble sheet and packed individually in a 15mm thick sheet of suitable plywood box and shall ensure no damages during the transportation of the same to MIDHANI. Cost of plywood box and hard case bubble sheet shall be in the scope of the supplier and hence quoted price shall be inclusive of packing & transportation.** Any damages observed after opening the box at MIDHANI will leads to rejection of the machined dies. Transportation shall be in the scope of the supplier and hence the quoted price shall be inclusive of transportation. Supplier has to arrange for 'To' and 'Fro' transportation of material from MIDHANI.

TERMS AND CONDITIONS FOR JOBWORKS

1. PAYMENT TERMS:

Payment will be made within a period of 30 days from the date of receipt and acceptance of the materials at site.

Compliance to GST Return and e-invoicing shall be as per Annexure's enclosed.

2. INDEMNITY BOND :

The successful tenderer shall submit Indemnity Bond covering the value of free issue material as directed by the Purchaser. The value of the material will be furnished at the time of placement of order.

3. PROCESS LOSS:

The Scrap generated during process shall be kept separately and to be returned to MIDHANI along with finished material. Material accounting shall be submitted challan-wise along with supplied items. A maximum process loss of 5% on generated scrap material weight is allowed. If the process loss exceeds allowed percentage, equivalent cost of exceeded scrap quantity shall be recovered from the bills.

4. REJECTIONS:

~~The processing has to be carried out as per Scope of Work and as per Instructions given by MIDHANI after placement of order. In case any material is rejected due to non-conformity with size and shape or due to non-adherence of MIDHANI process instructions, conversion cost shall not be paid and rejected material shall be returned back to MIDHANI/ the cost of the raw material will be recovered from the tenderer (wherever applicable).~~

5. INSURANCE:

The successful tenderer shall take an Insurance Policy, covering all risks, for the value of material issued by MIDHANI during transit & lying at his works.

6. PRICES:

~~Tenderers shall submit their quotation in terms of Rs. per Input Number basis. The prices shall be firm during the tenure of the contract.~~

7. TRANSPORT: To and Fro transportation shall be in the scope of vendor at their own cost.

8. DELIVERY: As per Annexure-I.

9. EOI shall submit their quotes in clear terms without any vague expressions.

10. MSE UNITS: Confirm whether you are MSE UNIT or MSE UNIT owned by SC/ST Entrepreneur. If yes, Please submit latest valid documentary proof for extending benefits as per Government guidelines.

11. Tenderers are requested to submit their offers according to Purchaser's Terms & Conditions.

12. ~~The Purchaser is not bound to accept the lowest or any tender or to assign reasons for its non-acceptance. The Purchaser also reserves the right to accept the tender either in whole or in part.~~

13. INSPECTION: As per Annexure-I

14. VALIDITY:

The final price offered shall be valid for 3 (Three) year from the date of placement of order.

15. SPLITTING OF ORDER: ~~In case the order is to be placed on more than one tenderer as specified in the tender, then all the technically & commercially qualified tenderers will be asked to match their prices with L-1 rate for distribution of tendered job works. Only the tenderers, who agree to match their prices with L-1 rate, in order of Bid ranking, will be considered for the distribution of order.~~

~~The allocation shall be broadly as:~~

~~1) In case of distribution for Ratio for Original Ranking L-1 L-2 L-3 L-4~~

~~Two parties 70:30-~~

~~Three parties 60:25:15~~

16. ARBITRATION:

Any dispute or difference whatsoever arising between the parties out of or in connection with the Order/Contract or the breach thereof shall be settled by bilateral discussions failing which they shall be settled by Arbitration in accordance with the Rules of Arbitration of the India International Arbitration Centre (IIAC) as per IIAC Act, 2019 and the award made in pursuance thereof shall be binding on the parties. The language of arbitration shall be English and the place of arbitration shall be Telangana, India.

In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/Port Trusts inter se and also between CPSEs and Government dept./Organizations (Excluding disputes concerning Railways, Income Tax, Customs & Excise Dept.), such disputes or differences shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM No. 4(1)/ 2013- DPE(GM)/FTS-1835 dated 22/5/2018 or the latest DPE Guidelines issued from time to time.

17. JURISDICTION:

All questions, disputes or differences arising under, out of or in connection with the contract shall be subject to the exclusive jurisdiction of court within local limits of Hyderabad, Telangana.

18. GENERAL DIRECTION OF THE WORK:

The contractor shall obtain instructions for carrying out the work pertaining to his Contract from the Purchaser or its authorized representative. The Contractor shall take care of the progress of the work through a qualified representative. Any instructions given to such representative shall be considered as having been issued directly to the Contractor.

19. SUB LETTING OR SUB-CONTRACTING OF CONTRACT:

The Successful tenderer shall not sublet, transfer or assign the contract or any part thereof without the written permission of the Purchaser.

20. LIQUIDATED DAMAGES FOR DELAY IN EXECUTION OF CONTRACT:

If the Contractor shall fail to complete the assigned work within the time prescribed in the Contract thereof, or extended time thereof, the Contractor shall be liable to pay the Purchaser as liquidated damages for such default, but not as a penalty, a sum calculated at the rate of 1% (One percent) of the Contract Price inclusive of all taxes except GST per week of delay, subject to a maximum of 10% (Ten percent) of the Contract Price inclusive of all taxes except GST. The Purchaser may, without prejudice to any other method of recovery, deduct the amount of such damages from

any money in his due to the Contractor. The payment or deduction of such damages shall not relieve the Contractor from his obligations to complete the work or from any other of his obligations and liabilities under the Contract.

21. ADDENDA TO EOI/TENDER DOCUMENTS:

The Purchaser reserves the right to issue addenda to the EOI/tender documents to clarify, modify, supplement or delete any of the condition, clause or items stated in the tender documents issued with this invitation to tender. Each addendum issued will be distributed to each tenderer or his authorized representative and the addendum so issued shall form a part of the original tender documents to be reviewed as required.

22. CANCELLATION / SHORT CLOSURE OF CONTRACT:

The purchaser may, without prejudice to any other remedy for breach of Contract, by written notice of one month of default sent to the supplier, terminate the contract in whole or in part:

- a) If the supplier fails to deliver any or all of the stores within the time period(s) specified in the contract, or any extension thereof granted by the Purchaser.
- b) If the supplier fails to perform any other obligation under the contract within the period specified in the contract or any extension thereof granted by the purchaser.
- c) Purchaser reserves the right to cancel the Purchase Order/ contract on its own under exceptional circumstances.

On receipt of notice for short closure, the contractor shall cease all further work, except for such work as may be specified in the notice for the sole purpose of protecting that part of the stores already executed. Further, the liability of MIDHANI in such cases will be limited to the extent of the cost as assessed by MIDHANI, in its opinion, till the point of short closure.

23. MAKE IN INDIA:

Purchase Preference to 'Class-I local supplier' as per Public Procurement (Preference to Make in India) Order 2017 revised dated 19/07/2024 (Attached along with this tender) and Notifications shall be provided:

Note: The local content requirement to categorize a supplier as class-I local supplier is minimum 50%. For Class-II local supplier the local content requirement is minimum 20%. Nodal Ministry/Department may prescribe only a higher percentage of minimum local content requirement to categorize a supplier as Class-I local supplier /Class-II local supplier. For the items for which the Nodal Ministry has not prescribed higher minimum local content notification under the order, it shall be 50% and 20% for class-I local supplier/ Class-II local supplier respectively.

As per clause 9 (a) & 9 (b) of the order, suppliers has to specify the percentage of local content and provide self certification (For value less than 10 Crores) that the item offered meets the local content requirement for Class-I/Class-II local supplier as the case may be and also give the details of the location(s) where the local value addition is made. For value greater than 10 Crores certificate for local content to be provided from statutory auditor or cost auditor of the company (In case of companies) or from a practicing Chartered Accountant or practicing Cost Accountant in case of suppliers other than companies.

24. MSE (MICRO AND SMALL ENTERPRISES) and Start Up UNITS:

As per Public Procurement Policy(PPP) for Micro & Small Enterprises (MSEs) order,2012 vide Gazette notification dated 23.03.2012 by Ministry of Micro, Small

and Medium Enterprises of Govt of India, the following benefits will be extended to the MSEs.

If Tenderer happens to be a MSE as per Government Guidelines, necessary benefits in line with Government Guidelines issued from time to time shall be provided on submission of valid documentary proof to the satisfaction of the Purchaser. In case organization is an MSE Unit owned by SC/ST Entrepreneur or owned by Women Entrepreneur, submit valid documentary proof for extending benefits as per Government guidelines. Benefits include

- i) EMD is exempted for Micro & Small Enterprises (MSEs) registered with DIC/ NSIC/KVIC/ Udyog Aadhar Memorandum (UAM) issued by MoMSME or any other body specified by Ministry of MSME.
- ii) Purchase Preference to MSE's shall be provided as given below.
 - a) In tenders, participating Micro and Small Enterprises quoting price within price band of L1+ 15 percent shall also be allowed to supply at least 25% requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise. In case of more than one such Micro and Small Enterprise, the supply shall be shared proportionately (to tendered quantity).
 - b) In case of tender item is non-divisible and if Micro and Small Enterprises quoted price is within the price band L1+15% shall be allowed to supply total tender requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise.
- iii) "Vendors to intimate the value of Goods & Services which are sub contracted by them from the MSE's if any, pertaining to the ordered item(s)".
- iv) The benefits mentioned above are meant for procurement of goods produced and services rendered by MSE's. Traders are excluded from availing these benefits
- v) Vendors to intimate the value of Goods & Services which are sub contracted by them from MSE's if any, pertaining to the tendered item(s).

25. DEFINITIONS:

PURCHASER: The term "Purchaser" as used herein shall mean "Mishra Dhatu Nigam Limited" incorporated under the companies Act 1956, and having its registered office at P.O. Kanchanbagh, Hyderabad-500 058. TS, India, and shall include its successors and assigns.

TENDERER: The term "Tenderer" shall mean the person, firm or corporation submitting a tender against the invitation to tender and shall include his/ its heirs, executors, administrators, legal representatives, successors and assigns.

CONTRACTOR: The term "Contractor" shall mean the Tenderer whose tender has been accepted and shall include his/its heirs, executors, administrators, legal representatives, successors and assigns approved by the Purchaser.

26. FORCE MAJEURE:

If at any time during the continuance of this Contract, the performance in whole or in part, neither party shall be liable of performance under this Contract, any obligations under the Contract of any party is prevented or delayed due to reasons beyond such party's control, including but not limited to acts of God, fire, flood, earthquake other natural catastrophes, any law, order, regulation, direction, action of any civil or military authority, national emergencies, insurrections, riots, war (whether declared or not), hostility, acts of the public or enemy, civil commotion, sabotage, explosion epidemic, quarantine restrictions, strikes and lock-outs, work stoppage or other labour difficulties, absence of the usual means of communication or transportation (hereinafter referred to as `eventuality`) provided however the party to which the

force majeure has happened shall use commercially reasonable efforts to eliminate such an event.

Force majeure shall also be deemed in the event of any regulatory decision or government order requiring the either party to suspend its service(s) or operation(s) for any reasons whatsoever. Notice of the happening of any such eventuality or force majeure as mentioned herein shall be given by either party to the other within fifteen (15) days from the date of the occurrence thereof along with supporting proof of the occurrence of the Force Majeure event , neither party shall, by reason of such eventuality, be entitled to terminate this Contract, nor shall either party have any claim for damages against the other in respect of such non-performance, or delay in performance, and the work under this Contract shall be resumed as soon as practicable after such eventuality has come to an end or ceased to exist, and the decision of the Purchaser as to whether the work has been so resumed shall be final and conclusive.

Certificate of a Chamber of Commerce (Commerce and Industry) or other competent authority or organization of respective country shall be a sufficient proof of commencement and cessation of the above circumstances.

The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The time for completion shall be extended by number of days the party giving notice was prevented from performing his obligation due to Force Majeure.

Should one or both parties be prevented from fulfilling their contractual obligations by a state of force majeure lasting continuously for a period of at least six (6) months, both the parties shall consult each other regarding the further implementation of the Contract, provided always that, if no mutually agreed arrangement is arrived at within a period within three (3) months from the expiry of the six (6) months referred to above, the Contract shall be deemed to have expired at the end of the said six (6) months referred to above. The above-mentioned expiry of the Contract will imply that both the parties have the obligation to reach an agreement regarding the winding up and financial settlement of the Contract.

Annexure-III

ELIGIBILITY CRITERIA FOR APPLICANTS:

(I) The bidders intending to bid for empanelment shall fulfil the following Pre-Qualification criteria:

(a) Bidders who have successfully executed at-least three Inconel-100 die machining contracts in last 03 years are considered as technically qualified (Contract copy of the same shall be ~~incorporated~~ submitted as a part of aforementioned qualification)

(b) New Bidders shall prove complete in-house facilities such as 4nos of 750 diameter job holding CNC/heavy duty lathe machines, 4nos of 750 diameter CNC vertical milling machines, 1 no. 750 diameter cylindrical grinding machine/attachment to heavy duty lathe & 1 no. 750 diameter surface grinding machine, 1 no. 750 diameter and 300kg job holding CMM for die profile dimensional inspection in his premises. Bidders should not outsource the job or part of its operations to other parties.

(c) Bidders shall prove expertise in design of special processes/tools and fixtures for Inconel-100 (chemistry 60% Nickel, 10% Chromium, 15% Cobalt, 3% Molybdenum & 5% Titanium) as cast die machining along with aforementioned facilities within one week after receiving of communication from MIDHANI. MIDHANI team shall carryout vendor evaluation/assessment (In case of a new vendor) by visiting to vendor works for qualifying/rejecting the technical bid based on the findings of the visit.

(d) If the bidder fails to perform machining of issued material under the contract within the period specified in the contract or any extension thereof granted by MIDHANI, MIDHANI reserves the right to cancel the Purchase Order/contract on its own under exceptional circumstances. In this case, all the FIM shall be returned back to MIDHANI by supplier own transport and no payment will be made for partly machined dies.

(e) Bidders should have been established and operating for a period of at least 05 years prior to the date of EOI. Certificate of Incorporation issued by the Registrars of Companies "OR" Certificate of Registration by Registrar of Firms "OR" GST Registration in case of proprietary firms to be submitted.

(II) Technical Experience: Bidder should have "minimum 03 years experience" in execution of similar jobwork as per EOI. Proof of experience i.e., Copy of the Contract/Order and other documentary evidence for successful supply (Invoice, Delivery challan/Invoices mentioning the Contract details) to be submitted. Bidders have to give the details of previous supplies and contact person full details for reference to be submitted.

III. Annual Turnover: Bidder should have a minimum average Annual Turnover of Rs. 3,15,00,000/- (Three Crore Fifteen Lakhs only) in previous three (03) Financial

years. Audited Annual accounts i.e., Balance Sheets and Profit and loss account statement to be provided as proof.

IV. Positive Net Worth/Solvency: Bidders should have Positive Net worth in each of the previous three financial years "OR" Should submit Solvency certificate for amount of Rs. 2,80,00,000/- (Two Crore Eighty Lakhs only) issued not earlier than 6 months from the date of Tender. Audited Annual accounts i.e., Balance Sheets and Profit and loss account statement to be provided as proof (or) Certificate from a Practicing Chartered Accountant for Net worth of the company issued not more than 6 months before the date of tender with seal and Membership Number mentioned on the certificate in Original.

(V) Bidder Should have PAN/TAN/TIN/GST registration. Copy of registration certificates to be submitted.

(VI) Bidder Unconditional acceptance of all commercial terms and conditions. Self-certificated document to be submitted.

(VII) Bidder should not be Blacklisted/Debarred by any Firm or any Government Organizations and companies and must certify the same. Self-certificated document to be submitted.

ANNEXURE-III**APPLICATION FORM**

(To be filled by the Applicant)

Sl. No	Description	Response from the Party
1	Name of the firm	
2	Address of the firm with website	
3	Details of contact person	Name : Email : Tel/Mob : Fax :
4	Which year this organisation established	
5	How long you are in the business	
6	Please enclose a brief about the history of your company, capabilities & facilities, collaborators, manpower, financial standing etc. Attach literatures/documents to support your statements wherever necessary	
7	What are the Quality accreditations/Certifications of your company? Attach the Valid copy of such certificates.	
8	Please enclose the catalogue / brochure of your organisation.	
9	List the companies in the mentioned Segment to which you have rendered services in past 2 years	
10	Is your company rated by any of the leading rating agencies (for ex. Dun and Bradstreet)? Or any major agency. If so mention the name of the rating agency and enclose the rating report by that company	
11	Is your company registered under the statutory requirements applicable locally? Please enclose a copy of the relevant documents, namely PAN, GST etc.,	
12	Nature of the company : PSU/ Listed Company / Partnership Co. / Private Enterprise / Proprietorship Concern	
13	Please provide the sales turnover of your company for the last two years	
14	Any other points, that you may wish to add, which would highlight your capabilities in support of products to the mentioned Segment.	
15	Do you accept all terms and conditions mentioned in this EOI?	
16	Area of Interest with details, if required separate annexure may be attached	