



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 FOR
PROCUREMENT OF “ALUMINIUM VANADIUM MASTER ALLOY”.**

EOI Tender Ref No: MDN/PUR/EOI/AL-V MASTER ALLOY/2024-25, Date: 20-03-2025
Start of Tender Documents: 20-03-2025

Receipt of Tender on/before: **02-04-2025, 1030 Hrs, IST.**

Opening of bids / responses: 02-04-2025, 1100 Hrs, IST.

Note:

- All Bidders/ Applicants need to submit the required Documents as listed in Sealed Cover on or before 02-04-2025 by 10:30 Hrs.
- Any Corrigendum to the Tender shall be published in MIDHANI website www.midhani-india.in and CPPP portal

List of Documents:-

S. No	Document Description
1	Invitation to Tender
2	Annexure I : Technical Specification
3	Annexure II : Application form
4	Supporting Documents required as per Eligibility Criteria
5	Annexure III – Certificate to be given by applicants with bid/response for Local content

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 Manufacturers and Suppliers of Aluminium Vanadium Master alloy to enhance our existing Vendor base for Master alloys.

2. TECHNICAL SPECIFICATION OF ALUMINIUM VANADIUM MASTER ALLOY: As per Annexure – I. Total quantity required is 550 Kgs.

3. ELIGIBILITY CRITERIA FOR APPLICANTS:

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

3(a) Bidder (sole)/Lead Consortium Partner/Original Manufacturer 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.

Offers from Consortiums as well as from Authorised dealers/representatives on behalf of Original Manufacturers (OM) are allowed subject to the following (If applicable):

In case of Consortiums:

- Consortium agreement (Memorandum of Agreement) signed by legally authorised signatories of respective consortium members/partners, shall be valid till completion of the contract & Defect Liability Period and shall form part of the Contract.
- Consortium agreement clearly defining the roles and responsibilities of each party and signed by all the consortium members/partners shall be submitted along with the techno-commercial offers.

- BGs to be submitted by each member/partner for value of their respective scope of work and Order/Contract shall be signed by all members/partners of the Consortiums.
- Payments to be made to respective members/partners directly for their respective scope of work (ex: In case of INR payments to Indian Partners in the Consortium etc), which shall be indicated in the techno-commercial offer/authorised by the Lead Partner.
- Lead Partner of the Consortium shall be overall responsible for the execution of the Contract. The Leader and other Members of the Consortium shall be jointly and severally liable for the execution of the Contract, but will be liable for damages in proportion of the respective Contract Price.

In case of participation from Authorised Dealer/Associate/Authorised Representative of Original Manufacturer:

- Agreement clearly describing the roles and responsibilities of OM and Associate jointly signed by OM and the Associate along with the techno-commercial offer. Agreement shall be valid till completion of the contract / order and Defect Liability Period, in case contract/order is awarded to them.
- OM to submit Authorisation/Undertaking along with the above said agreement which shall read thus

“We are appointing the Project Associate/Authorised Representative _____ who are authorised to submit/participate in the tender on our behalf, use our credentials, conduct discussions/negotiations for the tender and also sign the Contract/Purchase Order on our behalf. We stand responsible against the actions of our Associate/Representative pertaining to this tender. We shall take the responsibility of technical suitability as per tender/purchase order/contract (if placed), establishment of performance guarantee during commissioning and Warranty/Guarantee during defect liability/Guarantee/Warranty period.”

3(b) Technical Experience: Bidder (sole)/Lead Consortium Partner/Original Manufacturer Should have **“minimum 05 years experience”** in supply of similar Raw material (*), prior to EOI date for atleast 20% of the EOI quantity (in single or multiple supply orders). Proof of experience i.e., Copy of the Contract/Order and other documentary evidence for successful supply (Invoice, Delivery challan/ Bill of Lading 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.

(* – Similar Raw materials include material with same Technical Specification (or) higher as of the Tender.

3(c) Annual Turnover: Bidder (sole)/Lead Consortium Partner/Original Manufacturer Should have a **minimum average Annual Turnover of Rs. 6.6 lakhs per year in previous three (03) Financial years.** Audited Annual accounts i.e., Balance Sheets and Profit and loss account statement to be provided as proof.

3(d) Positive Net Worth/Solvency: Bidder (sole)/Lead Consortium Partner/Original Equipment Manufacturer Should have **Positive Net worth in each of the previous three financial years** "OR" Should submit **Solvency certificate for Rs. 8.8 lakhs** 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.

3(e) Bidder (sole)/All Consortium Partners Should have PAN/TAN/TIN/GST registration. Copy of registration certificates to be submitted.

3(f) Bidder (sole)/All Consortium Partner's Unconditional acceptance of all commercial terms and conditions. Self-certificated document to be submitted.

3(g) 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.

4. 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.

8. PAYMENT TERMS:

Within 30 days from the date of receipt and acceptance of material in MIDHANI (lot-wise).

9. ACCEPTANCE CRITERIA:

Acceptance criteria shall be as per QA document (Chemical composition as per QA document shall be tested by QC at MIDHANI).

10. PRE-DISPATCH INSPECTION & TESTING:

MIDHANI reserves the right to carryout Pre-Dispatch Inspection of material processing and Inspection etc., at Manufacturer /Supplier premises.

11. LIQUIDATED DAMAGES:

Liquidated Damages (LD) shall be levied against suppliers in the event of unsatisfactory, delayed or non-supply of materials/execution of contract beyond the date of delivery. LD is leviable at the rate of 1% of the total Purchase Order/contract prices per week or part thereof subject to a maximum of 10% of the order/contract prices including taxes and duties without prejudice to the right of the Purchaser to take any other action. The amount shall also be recoverable from any other Purchase Order/Contract on account of the supplier. The payment or deduction of such damages shall not relieve the contractor from his/her obligations to complete the work or from any other of his/her obligations and liabilities under the contract.

12. ARBITRATION:

Any dispute(s) or difference(s) whatsoever arises under or out of or in connection with the tender notice/contract, or in respect of any defined legal relationship associated therewith or derived there from, shall be resolved/settled amicably, through mutual negotiation; failing which the differences shall be resolved by way of arbitration in accordance with the India International Arbitration Centre (IIAC), New Delhi Arbitration Rules. The authority to appoint the arbitrator(s) shall be the India International Arbitration Centre (IIAC). And will provide administrative services in

accordance with IIAC Arbitration Rules. The seat of arbitration shall be India. The language of the arbitration proceeding shall be English. The place of arbitration proceedings shall be Hyderabad, Telangana, India.

In case of PSU/Government organization DPE guidelines in force or as amended from time to time shall be applicable.

13. JURISDICTION:

This EOI shall be subject to the exclusive jurisdiction of the courts within the local limits of Hyderabad, Telangana, India.

14. CLARIFICATION & SUBMISSION OF BIDS:

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

15. DISCLAIMER:

All the Submitted Documents will be the property of MIDHANI after submission. In case of any confidentiality, the Applicant shall clearly mark “CONFIDENTIAL” on all such Documents. Such information shall, in so far as is possible be given effect to subject to certain exemption indicated as but not limited to availability of the same in public domain Government/Court directives/orders etc., MIDHANI is not bound contractually or in any other way to any Applicant for this particular tender. MIDHANI is not liable for any Costs or compensation w.r.t the consideration or non-consideration of this application in response to this Tender. The issue of this Document does not in any way commit or otherwise obliges MIDHANI to proceed with all or any part of Tendering process. The Tender invitation is not the Subject of any Agency Contract or any contractual obligations between MIDHANI and the Applicant. MIDHANI at its absolute sole discretion may prefer, eliminate or abandon any part or whole of the process without giving prior notice to the Prospective Partners.

Specification for Aluminium Vanadium Master Alloy (35: 65)
(of Critical Aerospace Quality)

1.0 SCOPE:

- 1.1 Supply of 550 Kgs ($\pm 2\%$) of Aluminium Vanadium (35:65) Master Alloy for making Titanium Alloys for Critical Aero Space application.
- 1.2 The present procurement of Al-V master alloy is for making Titanium alloys for critical aerospace application.
- 1.3 The party should have supplied earlier this master alloy for any Titanium industry which involves in making Titanium alloys for aerospace application. Necessary document in respective of this shall be furnished.
- 1.4 The technical specification, inspection and acceptance criteria are detailed below:

2.0 MANUFACTURING PROCESS:

- 2.1 The specified Aluminium Vanadium master alloy is required to manufacture Titanium alloys of Aerospace quality. This master alloy shall be produced by the aluminothermic process (one step process) or aluminothermic process followed by melting in the vacuum induction furnace (Two Step Process) to obtain the specified composition.
- 2.2 An alternative method , generally used in producing this master alloys is melting of pure metals in the vacuum induction furnace .
- 2.3 The alloy must be uniformly mixed so that the Vanadium content when determined in samples from any drum of a lot will not deviate by more than $\pm 0.5\%$ from the composition which is representative for the total lot.
- 2.4 The solidus point of the master alloy Aluminium Vanadium 35:65 is about 1490°C, the liquidus point about 1675°C.
- 2.5 The equipment used for manufacturing, processing into suitable raw materials and inspecting the master alloys must be used exclusively for making master alloys intended for Titanium Alloys production .

3.0 TECHNICAL SPECIFICATION:

- 3.1. The material shall conform to the weight percentages as shown in Table : 1 Determination shall be by wet chemical methods or by Spectro Chemical methods or any other analytical methods acceptable to Midhani.
- 3.2. Chemical composition and physical properties of Aluminium Vanadium master alloy shall be, as shown in the table below .

Table: 1

Aluminium :	Al	34 - 39 %
Vanadium :	V	60 - 65 %
Molybdenum :	Mo	0.150 % max
Iron :	Fe	0.40 % max
Carbon :	C	0.150 % max
Oxygen :	O	0.20 % max
Silicon :	Si	0.30 % max
Nitrogen :	N	0.040 % max
Boron :	B	0.0030 % max
Tungsten :	W	0.0150 % max
All other elements each		0.10 % max
Size : 0.2 - 8 mm (Percentage of fines in the alloy should be as low as possible.)		

3.3 Note:

3.3.1. Test certificate , with other documents shall be sent along with the material .

3.3.2. Before shipment the party shall send the test certificate of the material offered to Midhani and material shall be shipped only after receiving confirmation from Midhani.

4.0 SCREEN FRACTIONS :

4.1 The particle size ranges indicated in Table: 1 should be adhered to in order to enable physical mixtures of raw materials , as homogeneous as possible during processing at Midhani .

- 4.2 The percentage of fine dust in the master alloy should be kept as low as possible, since the toxic effect of particles which are small enough to enter the lungs can be positively eliminated .

5.0 INSPECTION:

5.1 The Master alloy produced shall be subjected to prescribed quality control procedures prior to sampling and packaging which shall include , 100 % Magnetic separation , White light inspection , Black light Inspection and X-Ray inspection , to ensure the purity and cleanliness .

5.2 Final inspection shall ensure that no foreign materials or incidental elements remain in the master alloy, which are detrimental to the quality of the Titanium & Titanium Alloys .

6.0 PURITY WARRANTY:

6.1 The master alloy must be free from materials detrimental to the quality of the Titanium alloys. This includes materials forming high-density as well as low density inclusions in commercially pure Titanium & Titanium alloys. Therefore, the master alloy must be free from Tungsten, Tungsten Ore, Ferro Tungsten, Molybdenum, Tantalum, Niobium, Tantalum carbide and other high melting materials and metal compounds, as well as Oxide sand Nitrides.

7.0 LOT SIZE:

7.1 The smallest lot size should preferably be such that a single master alloy lot will suffice for making one ingot (4.0 T) of titanium alloy requiring minimum 330 Kg's of Al-V Master Alloy.

7.2 Lot weights shall preferably be in the range from 1.0 to 4.0 tonnes , for bulk supplies.

7.3 Any lots with a duplicated number shall not be accepted .

8.0 IDENTIFICATION:

8.1 The body of each drum & lid shall be legibly marked in characters at least 30mm high with a description of the material, lot number and drum number.

8.2 Proper identification labels shall be marked as above on each drum with indicating the following information.

8.2.1 Lot numbers.

8.2.2 Drum number / drum details related to each lot.

8.2.3 Gross weight.

8.2.4 Net weight.

8.2.5 Name of the manufacturer

- 8.2.6 Purchase order number
- 8.2.7 Percentage of Aluminium and Vanadium.

9.0 PACKING:

- 9.1 Material should be packed in MS drums and sealed tightly.
- 9.2 The method of packing shall not be altered without prior agreement of Midhani.

10.0 **QUANTITY REQUIRED: - 550 Kgs**

11.0 **DELIVERY SCHEDULE: Shipment to be arranged by AIR mode as below:**

FCA, Loading port: Within 75 days from the date of Purchase Order.

CIP, Hyderabad Airport: Within 80 days from the date of Purchase Order.

FOR, MIDHANI: Within 90 days from the date of Purchase Order.

ANNEXURE-II**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 Tender notice?	
16	Details of information provided to your organisation are to be used for the benefit of MIDHANI only. Non disclosure agreement (NDA) is to be signed in this regard if any order/contract is placed. Do you accept for the same? Please specify.	
17	Area of Interest with details, if required separate annexure may be attached	

CERTIFICATE TO BE GIVEN BY APPLICANTS WITH BID/RESPONSE FOR LOCAL CONTENT (as applicable)

EOI Ref No:

With reference to the above mentioned EOI, we hereby confirm that we have read the **Public Procurement (Preference to Make in India) Order No. P-45021/2/2017-PP (BE-II)-Part(4) Vol.II dated 19/7/2024** and the updates and the percentage of local (Indian) content in the offered items/service is _____ and the place/places of value addition done is/are _____.

The Class-I /Class-II local supplier shall be required to provide a certificate from statutory auditor or cost auditor (In case of companies) or from a practicing cost accountant or practicing chartered accountant (In respect of suppliers other than companies) giving the percentage of local content.

Signature with seal Note: