

(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964GOI004281

सेंट्रल फाउंड्री फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

**NOTICE INVITING EXPRESSION OF INTEREST** 

Date: 01.04.2024

Sealed Expression(s) of Interest (EoI) are invited through registered post/speed post/courier/by hand on or before 25.04.2024 up to 02:30 PM from capable and interested parties for the under-mentioned work. EoI documents can be downloaded from the EoIs section of the website of BHEL: hwr.bhel.com & www.bhel.com.

: 25.04.2024 Last date of **SUBMISSION** of Eol

Place of **SUBMISSION** of Eol : Tender Room

**Administrative Building Central Foundry Forge Plant Bharat Heavy Electricals Limited** Ranipur, Haridwar – 249403,

Uttarakhand, India

EOIs can also be submitted to arpitg@bhel.in and rlakra@bhel.in

Parties are required to ensure at their end that EoI documents complete in all aspects reaches CFFP on or before EoI opening date and time without any plea of delay on any account. For more details, please visit our website <a href="hwr.bhel.com">hwr.bhel.com</a> & <a href="hww.bhel.com">www.bhel.com</a> or may contact on: +91 1334 284093 or 284044, e-mail: arpitg@bhel.in, rlakra@bhel.in

#### Name of work

Purchase of Ferro Molybdenum (Mo content 60%-65%) on Rate Contract Basis with Price Variation Clause

#### Note:

- 1. BHEL reserves the right to accept or reject any / all application(s) without assigning any reason thereof.
- 2. If any document(s) submitted by vendor is/are found false at any stage, the EoI (offer) will be cancelled immediately.
- 3. BHEL will not be responsible for the loss or delay of EoI documents in transit in any case.
- 4. All further corrigenda, addenda, amendments, time extensions, clarifications etc. to the EoI, if any, shall be hosted only on our website.
- 5. This notice is accompanied by details of EOI and 4 annexures, namely:

Annexure – 1: Indicative Scope of Supply

Annexure – 2: Basis of Rate Contract

Annexure – 3: Suggestive PVC Formula for Ferro Moly

Annexure – 4: Pre-qualification criteria and details of Vendor's Experience

Annexure – 5: Specification of Ferro Molybdenum

पंजीकृत कार्यालय : बीएचईएल हाउस, सिरी फोर्ट, नई दिल्ली - 110049 | फोन : 011-66337598 | ईमेल : contactus@bhel.in Registered Office: BHEL HOUSE, Siri Fort, New Delhi - 110049 | Phone: 011-66337598 | E-mail: contactus@bhel.in















(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964GOI004281

सेंट्रल फाउंड्री फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

### SUBJECT: Purchase of Ferro Molybdenum on Rate Contract Basis with Price Variation Clause

#### 1. Introduction:

This Expression of Interest (EoI) seeks response from organizations/companies/industries that are willing to and are capable of supplying Ferro Molybdenum as per the specification of CFFP/BHEL Haridwar as per the quantity requirement – on both, monthly and annual basis or as indicated by BHEL. The Ferro Molybdenum so supplied will be used for preparation of Ferro Alloys in Steel Melting Shop (hitherto, SMS) of CFFP, BHEL Haridwar.

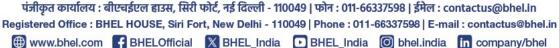
#### 1.1 About Bharat Heavy Electricals Limited (BHEL):

BHEL is a leading state owned company wherein Government of India is holding 63.17% of equity. BHEL is an integrated power plant equipment manufacturer and one of the largest engineering and manufacturing company of its kind in India engaged in core sectors of the economy, viz. Power, Transmission, Industry, Transportation (Railways), Renewable Energy, Oil & Gas, Water and Defence with over 180 products offerings to meet the needs of these sectors. A widespread network of 17 Manufacturing Divisions, 2 Repair Units, 4 Regional Offices, 8 Service Centres, 6 Overseas Offices, 6 Joint Ventures, 15 Regional Marketing Centres and current project execution at more than 150 project sites across India and abroad corroborates the humungous scale and size of its operations. BHEL also has a widespread overseas footprint in 80 countries with cumulative overseas installed capacity of BHEL manufactured power plants nearing 10,000 MW including Belarus, Bhutan, Egypt, Indonesia, Iraq, Kazakhstan, Malaysia, New Zealand, Oman, Rwanda, Sudan, Tajikistan and UAE. The high level of quality & reliability of BHEL products is due to adherence to international standards by acquiring and adapting some of the best technologies from leading companies in the world including General Electric Company, Alstom SA, Siemens AG and Mitsubishi Heavy Industries Ltd., together with technologies developed in its own R&D centres.

### 1.2 About Central Foundry Forge Plant (CFFP):

Incepted in 1976, CFFP is a strategic business unit of BHEL. CFFP is catering to the needs of steel castings and forgings mainly for the power plant equipment along with other industries such as steel, cement plants, defence, ship building etc. CFFP has received various accolades and certificates such as ISO-9001 from BVC, ISO 14000 and ISO 18000 from TUV-SUD and ISO 50001 from BSI.

CFFP has Steel Melting Shop (SMS) with capacity to prepare pour molten, liquid metal to cater to the needs of foundry and forge divisions. It has ability to melt and process wide









(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964GOI004281

सेंट्रल फाउंड्री फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

variety of steel grades right from plain carbon grades to creep resistant, super critical and high chromium stainless steels. Steel Foundry (SF) of CFFP makes steel castings from 500 kg to 63 MT single piece weight and cast fabricated castings up to 120 MT weight. It caters to various needs of power plant manufacturing, steel industry, ship building, defence, infrastructure etc. The composition of various products requires including alloying elements to achieve desired chemistry for attaining required characteristics.

#### 2. Scope of Cooperation:

BHEL is seeking Expression of Interest (EoI) from experienced vendors for supply of Ferro Molybdenum on the basis of an annual rate contract. The vendor should have the capacity to cater to the annual as well as monthly requirement of Ferro Molybdenum in CFFP. The indicative details of supply shall be as per **Annexure – 1**.

#### 3. Basis of Rate Contract:

The rate contract shall include a price variation clause the basis of which shall be an index. This index must be of repute which can be accessed by BHEL on either free or chargeable basis. Details sought are as per **Annexure – 2.** 

In order to give the vendors a prospective idea of working of the Price Variation Formula, a suggestive approach/formula with example is given in Annexure - 3. Please note that this formula is only suggestive in nature and not finalized. The final working basis for the PVC shall be made available at the time of floating of tender enquiry for purchase of Ferro Molybdenum on RC basis, as desired by BHEL.

#### 4. Pre-Qualification Requirements:

The prospective vendor shall have supplied minimum 30 MT of Ferro Molybdenum in one financial year during the period from 01.04.2017 to the date of floating of EOI. Detailed list of documents for establishing pre-qualification shall be as per **Annexure** - 4. The applicants are also expected to financially sound and capable of carrying out the intended work.

#### 5. Brief Description of EoI Process:

The interested prospective vendors shall ensure that their response along with annexures and supporting documents are received by BHEL on or before 25.04.2024. The response should be accompanied with details on company background, product profile, reference list of customers, performance certificate from customers, and annual audited financial reports for last 3 (three) years including auditor's report.















(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964GOI004281

सेंट्रल फाउंड्री फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

In case any further information is needed, vendors can contact CFFP.

The applicant shall submit their offer with all annexures duly signed and stamped. Your response is to be sent to the following address:

Tender Room, **Administrative Building Central Foundry Forge Plant Bharat Heavy Electricals Limited** Ranipur, Haridwar - 249403, Uttarakhand, India Phone: +91 1334 284093, 284044

EOIs can also be submitted to arpitg@bhel.in and rlakra@bhel.in

Upon receipt of responses against EoI from such vendors, BHEL will review the responses to ascertain suitability of the offer made by the prospective contractor and shortlist the vendors for further discussions. Detailed discussions on commercial and other terms and conditions to float the tender enquiry and subsequently, finalise the Purchase Order shall be held with shortlisted vendors. The detailed terms and conditions for such a contract shall be disclosed separately.

#### 6. Miscellaneous:

#### 6.1 Right to reject or accept any or all applications:

- a. Notwithstanding anything contained in this EoI, BHEL reserves the right to accept or reject any application and to annul the EoI Process and reject all applications, at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reasons thereof. In the event that BHEL rejects or annuls all the applications, it may, at its discretion, invite all eligible vendors to submit fresh applications.
- b. BHEL reserves the right to disqualify any applicant during or after completion of EoI process, if it is found there was a material misrepresentation by any such applicant or the applicant fails to provide, within the specified time, supplemental information sought by BHEL.
- c. BHEL reserves the right to verify all statements, information and documents submitted by the applicant in response to the EoI. Any such verification or lack of such verification by BHEL shall not relieve the applicant of his/her obligations or liabilities hereunder nor will it affect any rights of BHEL.
- d. Acceptance/communication/discussion with one or any of the applicants shall not be interpreted in the way of work order by any applicant. The course of action including















(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964GOI004281

सेंट्रल फाउंड्री फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

tender enquiry, placement of PO etc. shall be governed by BHEL's Purchase Policy 2013, Fraud Prevention Policy etc.

### 7.2 Governing Laws & Jurisdiction:

The EoI process shall be governed by, and construed in accordance with, the laws of India and the Courts at Haridwar (India) shall have exclusive jurisdiction over all disputes arising under, pursuant to and / or in connection with the EoI process.















(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964GOI004281

सेंट्रल फाउंड्री फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

Annexure – 1

## **Indicative Scope of Supply**

Item	Ferro Molybdenum		
Brief Specification*	Size: 10-50 mm		
	Subscribing to IS 1469-1993		
	Grade: FeMo63C10		
	Molybdenum Content: 60 % – 65 %		
Annual Requirement	100 – 150 MT		
Monthly Requirement	10 – 15 MT		
Place of Delivery	Central Stores, Central Foundry Forge Plant		
	Bharat Heavy Electricals Ltd.		
	Ranipur, Haridwar		
	Uttarakhand – 249403		
Tentative Delivery Period	30 days for each lot		
Testing	Third party inspection report from any one of the following		
	agencies shall be required:		
	LRIS/ BVIS (WINGS OF BUREAU-VERITAS) /DNV/TUV(SUD) /ALFRED H		
	KNIGHT/ SGS		
	Final inspection shall be done at CFFP/BHEL Haridwar		
	The scope of third party inspection shall be as under:		
	A. The inspection is to be carried out as per the ordered specification		
	ensuring original manufacturer's packing, Original manufacturer		
	test certificates etc. as per specification and the linkage  B. The material should be identified as per the specification like		
	original manufacturer's name, Batch/lot no, Net weight, material		
	name. The material should be packed as per specification and		
	sealed by the inspection agency. The seal details should be		
	mentioned in the third party inspection report.		
	C. The test certificate should contain the complete witnessing of the		
	chemical analysis of material as per IS1472 for nos. of test		
	required in a lot and their testing methodology for evaluating nos.		
	of element required by the material specification, size verification		
	as per P.O. Specification, purchase order no, Batch/lot no of		
	material, seal details of the inspector along with corresponding		
	packing (packing list).		

Detailed specification is as per Annexure - 5

















(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964GOI004281

सेंट्रल फाउंड्री फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

Annexure – 2

### **Basis of Rate Contract**

The rate contract is to be done with a price variation clause on a long term basis. The index used in such clause / contract should be of repute which can be accessed by us on either free or chargeable basis.

Accordingly following details are sought:

Whether your firm is presently, or was in past engaged in a long term contract for supply of Ferro Molybdenum	(Yes / No)
What is the name of the company with which you are engaged in such contract?	
Contact Details of the Company	
Is the referred rate contract running?	(Yes / No)
How long is / was the duration of rate contract?	
What is / was the PVC formula used in the rate contract?	
What is / was the index used in this rate contract?	
Details of Index (website/subscription method)	
Please also attach a copy of the rate contract	















(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964GOI004281

सेंट्रल फाउंड्री फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

Annexure – 3

### **Suggestive PVC formula for Ferro-Moly:**

 $[1 + {(A1-A0)/A0}] \times L1 (Agreed rate)$ 

**Scenario 1:** Supply is completed within delivery schedule

A1 = Average Ferro Moly price based on Argus Media (Ferro-molybdenum 60% Mo ex-works India INR/kg) of 30 days prior to the date of e-way bill

Scenario 2: Supply is completed beyond delivery schedule

A1 = Lower of:

1. Average Ferro Moly price based on Argus Media (Ferro-molybdenum 60% Mo exworks India INR/kg) of 30 days prior to the scheduled delivery date

Or

2. Average Ferro Moly price based on Argus Media (Ferro-molybdenum 60% Mo exworks India INR/kg) of 30 days prior to the date of e-way bill

A0 = Average Ferro Moly price based on Argus Media (Ferro-molybdenum 60% Mo ex-works India INR/kg) of January 2024 which is equal to Rs. 2385.00/kg (as per Attached details)

\*The data of January 2024 is quoted just for example, the final base data as per this formula (or any other formula, agreed upon) shall be provided at the time of final tender enquiry.

#### **Example:**

A0 for Jan '24 = Rs. 2385.00 / kgL1 Rate: Rs. 2100/kg (excl. of GST) PO Placement date: 05.02.2024 Scheduled delivery date: 06.03.2024

### Case 1: Delivery done on 06.03.2024

E-way bill is dated 01.03.2024

A1 = Average Ferro Moly price based on Argus Media (Ferro-molybdenum 60% Mo ex-works India INR/kg) of 30 days prior to the date of e-way bill i.e., 31.01.2024 – 29.02.2024 A1 = Rs. 2366.14 / kg





(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964GOI004281

सेंट्रल फाउंड्री फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

Price after application of PVC =  $[1 + {(A1-A0)/A0}] \times L1$  $= 1 + \{(2366.14-2385)/2385\} \times 2100$  $= [1 - (18.86)/2385] \times 2100 = Rs. 2083.39 / kg$ 

## Case 2: Delivery done on 08.03.2024

E-way bill is dated 03.03.2024

A1 = Lower of

1. Average Ferro Moly price based on Argus Media (Ferro-molybdenum 60% Mo exworks India INR/kg) of 30 days prior to the scheduled delivery date 06.03.2024 (05.02.2024 - 06.03.2024) = 2380.65

Or

2. Average Ferro Moly price based on Argus Media (Ferro-molybdenum 60% Mo exworks India INR/kg) of 30 days prior to the date of e-way bill (01.02.2024 – 02.03.2024) = 2370.68

Price after application of PVC =  $[1 + {(A1-A0)/A0}] \times L1$  $= [1 + (2370.68-2385)/2385] \times 2100$ = Rs. 2087.39 / kg

















(भारत सरकार का उपक्रम / A Government of India Undertaking) CIN: L74899DL1964G0I004281

सेंट्रल फाउंड़ी फोर्ज प्लांट / Central Foundry Forge Plant रानीपुर, हरिद्वार / Ranipur, Haridwar

फोन / Phone: 01334-284044 | ईमेल / Email: rlakra@bhel.in

Annexure – 4

## **Pre-Qualification Requirements**

S. No.	Requirement	Response (YES/NO) and Remarks, if any		
1	Whether the applicant has experience in supplying minimum 30 MT of Ferro Molybdenum in one financial year during the period from 01.04.2017 to the date of floating of EOI			
2	As a supporting document to response in # 1 above, following documents are required:			
2.1	Copy of Purchase Orders / Purchase Agreements			
2.2	Copy of invoice / BL copy / any other document to confirm supply of material against above purchase order			
2.3	Copy of test certificate for the supplied material			
3	Please also mention the name of manufacturer(s) from whom you have supplied material in the past			
4	Whether applicant's audited annual financial reports including auditor's report for last 3 years are enclosed			

Please enclose relevant documents with your submission.

# 104068/2024/CFFP-PUR SDC अस्पाई एम PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR)

FF 05009 Rev 07

**Page** 

1 of

## FERRO MOLYBDENUM

### 1. SCOPE

This specification governs the quality of Ferro Molybdenum with the following requirements.

### 2. APPLICATION

The material shall be used as alloying addition for manufacturing of alloy steel

## 3. CONDITION OF DELIVERY

The size should be in the range of 10-50 mm. However oversized material should not exceed 10% by weight and undersize material should not exceed 5% by weight.

## 4. COMPLIANCE WITH NATIONAL STANDARDS

The specification in general is based on Indian standards specification IS 1469-1993 (Reaffirmed 1999); Grade: FeMo63C10.

### 5. FREEDOM FROM CONTAMINATION

The material shall be free from extraneous contamination such as slag.

## 6. CHEMICAL COMPOSITON

The material shall conform to the following chemical composition when it is analyzed in accordance with IS:12614 or equivalent international standard /instrumental analysis traceable to International standard.

The sampling shall be done as per IS: 1472.

ELEMENT	% MIN	%MAX		
Carbon		0.10		
Molybdenum	60	65		
Silicon	, =	2.0		
Sulphur	lphur - 0.10			
Phosphorus	-	0.05		

RMI	ARUN AGARWAL	Turk .	WORKED BY	M.K.SAHU	John
MPIC	ROHIT VARSHNEY	Mal	CHECKED BY	B K BEDI	The
CHAIRMAN CPSC	G M VERMA	13/9/1	APPROVED BY	RANJAN KUMAR	242
			APPROVED: PLANT ST	TANDARDS COMMIT	TTEE
			PREPARED: SMS TECH	ISSUED: Steel Melting Shop	DATE :

SNTIAL	arat Heavy Electric	in any way detrimental to	
IDEN	of Bh	any	
AND CONF	is the property	y or indirectly in	interest of the company
COPYRIGHT AN	The information on this documents is the property of Bharat Hear	cimited.It must not be used directly	interest

al



## PLANT PURCHASE SPECIFICATION

FF 05009 Rev 07

(CFFP - HARDWAR)

**Page** 

of

### 7. INSPECTION AT SUPPLIER'S WORKS:

- CFFP reserves the right to witness the testing of the material at supplier works and therefore the supplier shall notify the readiness of the material in advance.
- If any specific inspection requirements are written in purchase order, the same shall be applicable.
- CFFP may, at its discretion, test the material after receipt and acceptance of the material will be based on the CFFP'S test results.
- For result of analysis and properties of material the decision of CFFP shall be final and binding on the supplier.

#### 8. TEST CERTIFICATES

One Original and three copies of Test Certificate from the Manufacturer containing the following information along with test result of clause 3,5 and the chemical composition as per clause 6 should be provided.

Manufacturer's Name Name of the material Batch/Lot No. Lot Quantity.

Note:

- a) A manufacturer supplying directly to BHEL should include BHEL's P.O. No. and Challan No. also in the TC.
- b) Any other supplier should provide a covering letter along with original Manufacturer's TC as above mentioning BHEL's P.O. No. and Challan No.

### 9. PACKING AND MARKING

The material shall be packed in **tamper proof metallic drum** such as to prevent loss/deterioration in quality during handling, transportation and storage. Preferred packing size shall be 50 Kg drums however drums with weight up to 250 Kg will be acceptable with 5 packs of 50 kg each in one drum. It should be in the manufacturer's packing. Each drum should be marked with the following details.

Name of the material

Manufacturer's Name / Trade mark

Batch/Lot No.

Net weight.

## 10. REFFERED STANDARDS

IS: 1469 -1993, IS: 12614, IS: 1472 and AA 11311 (Corporate specification BHEL)

	WORKED BY	M.K.SAHU	Whi
	CHECKED BY	B K BEDI	Rom



## PLANT PURCHASE SPECIFICATION

FF 05009 Rev 07

(CFFP - HARDWAR)

Page

3 **of** 3

## **REVISION RECORD SHEET**

	SN	Revision	Revision	Nature of Changes
		No.	date	
	01.	04	07.09.2009	-Clauses 8 and 9 revised incorporating requirement of manufacturer's packing and Test certificate.
irectly in any way detrimental to the interest	02	05	30.07.2010 14.08.2017	<ul> <li>Clause 3: Size range redefined.</li> <li>Clause 6: Testing and sampling shall be done as per IS 12614 &amp; 1472.</li> <li>Limit for Sulphur content has been increased from 0.05% to 0.10%.</li> <li>Clause 8: Clause 5 included in the T.C.</li> <li>Clause 9: Size of the pack and tamper proof metallic drum incorporated as per SP-0612 dated 11.03.2010.</li> <li>Clause 6: Analysis with international standard /instrumental analysis traceable to international standard added.</li> </ul>
ly or ind	04	07		
COPYRIGHT AND CONFIDENTIAL  The information on this documents is the property of Bharat Heavy Electrical Limited.It must not be used directly or indirectly in any way detrimental to the interest of the company	04	07	12/09/2018	-Clause 9: Preferred packing size shall be 50 Kg drums however drums with weight up to 250 Kg will be acceptable with 5 packs of 50 kg each in one drum.
formation on this docume				
The in				

WORKED BY B K BEDI CHECKED BY