



ISO 9001:2000  
& 14001:2004  
NAVARATNA  
COMPANY

सामग्री प्रबन्धन (क्रय विभाग)  
**MATERIAL MANAGEMENT (PURCHASE)**  
सेन्ट्रल फाउन्ड्री फोर्ज प्लांट, भारत हेवी इलेक्ट्रिकल्स लिमिटेड  
**CENTRAL FOUNDRY FORGE PLANT, BHEL HARDWAR**  
रानीपुर, हरिद्वार (भारत)  
**RANIPUR, HARIDWAR (INDIA) – 249403**  
Phone No. +91-1334-285326/284548, FAX No. 225892  
**e-mail: lpbadoni@bhelhwr.co.in**

Ref: FF/PPX/EOI/14  
Dt. 01/06/2009

Sub: EXPRESSION OF INTEREST FOR SUPPLY OF **SILICO CALCIUM**.

Dear Sir,

CFFP/BHEL has huge requirement for following item Welding Electrodes and thus desires Expression of Interest from interested vendors for supply of this item.

EOI NO.	Description	Due date
FF/PPX/EOI/14	SILICO CALCIUM	11/07/2009 2.00 P.M.

You are requested to please submit your interest along with Supplier Registration Form (which can be downloaded from our web site [www.bhel.com](http://www.bhel.com) ).


Kindly note that supplier registration form is mandatory requirement for processing your application against this Expression of Interest .

Thanking you.

(L.P. Badoni)  
Engineer (Pur)

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	संस्थान क्रय विनिर्देश (सी.एफ.एफ.पी. - हरिद्वार)		<b>FF 05063</b> <b>Rev-02</b>																									
	<b>PLANT PURCHASE SPECIFICATION</b> (CFFP - HARDWAR)		पृष्ठ का Page 1 of 2																									
<b>SILICO CALCIUM</b>																												
<b>1. SCOPE</b> This specification governs the quality of Silico Calcium with the following additional requirement.																												
<b>2. APPLICATION</b> The material shall be used as deoxidiser for the manufacture of special steel.																												
<b>3. CONDITION OF DELIVERY</b> The material shall be supplied in grain size 2 to 5 mm.																												
<b>4. COMPLIANCE WITH NATIONAL STANDARDS</b> This specification in general complies with the requirement in accordance with IS : 2022-1997 "Specification for Calcium Silicon" GRADE : CaSi																												
<b>5. FREEDOM FROM CONTAMINATION</b> The material shall be as free as possible from extraneous contamination such as slag and nonmetallic inclusions.																												
<b>6. MANUFACTURE</b> The process of manufacturing of Silico - Calcium is left to the discretion of the supplier.																												
<b>7. CHEMICAL COMPOSITION</b> When the material is analysed in accordance with IS: 2018 shall have the following Composition :																												
<table border="1"> <thead> <tr> <th>ELEMENT</th> <th>% Min.</th> <th>% Max.</th> </tr> </thead> <tbody> <tr> <td>Silicon</td> <td>60.00</td> <td>65.00</td> </tr> <tr> <td>Calcium</td> <td>30.00</td> <td>35.00</td> </tr> <tr> <td>Carbon</td> <td>-----</td> <td>1.00</td> </tr> <tr> <td>Aluminium</td> <td>-----</td> <td>1.50</td> </tr> <tr> <td>Sulphur</td> <td>-----</td> <td>0.03</td> </tr> <tr> <td>Phosphorus</td> <td>-----</td> <td>0.05</td> </tr> <tr> <td>Fe</td> <td>-----</td> <td>4.00</td> </tr> </tbody> </table>					ELEMENT	% Min.	% Max.	Silicon	60.00	65.00	Calcium	30.00	35.00	Carbon	-----	1.00	Aluminium	-----	1.50	Sulphur	-----	0.03	Phosphorus	-----	0.05	Fe	-----	4.00
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<b>8. SAMPLING METHOD FOR CHEMICAL ANALYSIS</b> The sampling of material shall be done in accordance with IS: 1472-1977.																												
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दिनांक : 12.01.04																												



संस्थान क्रय विनिर्देश (सी.एफ.एफ.पी. - हरिद्वार)

FF 05063  
Rev 02

**PLANT PURCHASE SPECIFICATION**  
(CFFP - HARDWAR)

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**9. INSPECTION AT SUPPLIER'S WORKS**

- CFFP/BHEL reserves the right to inspect the material after / before despatch. Therefore the supplier should intimate in advance enclosing a copy of test certificate of the material offered for inspection.
- Final inspection will be done at CFFP
- For any deviation from this specification prior approval of CFFP shall be taken
- For results of analysis and properties of material the decision of CFFP shall be final and binding on the supplier.
- If the material is not found suitable according to the requirements, it shall be replaced free of cost by the supplier.

**10. CLEARANCE FOR DELIVERY**

Objections shall be raised in case the material does not confirm to the condition specified in specification whereby the deviations interfere to significant extent with use of the material.

The clearance does not release the supplier from the responsibility for non-conformance determined later on.

**11. TEST CERTIFICATE**

The supplier shall furnish 4 copies of test certificates unless otherwise specified in purchase order. The test certificate must contain the following and must reach BHEL before or along with the material.

**11.1 BHEL Reference**

11.1.1 Material Specification.

11.1.2 Purchase Order No.

**11.2 Supplier reference**

11.2.1 Supplier's name or emblem.

11.2.2 Material Batch No. and Serial No.

11.2.3 Container size and weight of material

11.2.4 Test Results of Chemical analysis

11.2.5 Size of material.

**12. PACKING & MARKING**

The material shall be packed suitably in airtight and moisture proof metallic drums in preferably 80/100/250 Kgs manufacturer's original packing to prevent damage/ contamination during transportation.

Each drum/ container must be identified through a stencil mark/painted showing following details:-

Supplier's name or emblem.

Batch No. / S.No

Specification No / Chemical composition of ferro alloy.

Net wt. of material / gross wt. of material.

Date: 12.01.04

निर्माकता  
WORKED BY

SUNIL KUMAR

Sunil  
12/1

जाचकर्ता  
CHECKED BY

L.K.  
KHANDELWAL

L.K.  
12/1