



# PLANT PURCHASE SPECIFICATION

(CFFP - HARDWARE)

FF 05001 Rev 5

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## FERRO SILICON (LUMPS)

### 1. SCOPE

This specification governs the quality of Ferro Silicon Lumps with the following requirements.

### 2. APPLICATION

The material shall be used for melting and refining of steel.

### 3. CONDITION OF DELIVERY

#### A) Material Code: FF1135192014

The size should be in the range of 100-150 mm. However oversized or undersized material should not exceed 10% each by weight.

#### B) Material Code : FF1135191018 (For multi hopper system)

The size should be in the range of 20-40 mm. However oversized or undersized material should not exceed 10% each by weight.

### 4. COMPLIANCE WITH NATIONAL STANDARDS

The specification has been drawn from Indian standards specification IS 1110-1990; Grade: FeSi78.

### 5. FREEDOM FROM CONTAMINATION

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

### 6. CHEMICAL COMPOSITION

The material shall conform to the following chemical composition when it is analyzed in accordance with IS: 1110-1990.

ELEMENT	% MIN	%MAX
Carbon	-	0.15
Silicon	75	80
Sulphur	-	0.05
Phosphorus	-	0.05
Aluminium	-	1.50

RMI	S.N.GHOSH	WORKED BY	M.K.SAHU
MPIC	SHYAM BABU	CHECKED BY	RANJAN
CHAIRMAN CPSC	K.B.SUBRAMANYAM	SUPERVISED BY	SVS NARAYANA
APPROVED : PLANT STANDARDS COMMITTEE			
PREPARED : SMS TECH		ISSUED : Steel Melting Shop	DATE : 07/09/07





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## 7. INSPECTION

- 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.
- 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 any deviation from this specification prior approval shall be taken by the supplier.
- For result of analysis and properties of material the decision of CFFP shall be final and binding on the supplier.
- If the material is not conforming to this specification, it is liable to be rejected and the supplier shall replace the same.

## 8. TEST CERTIFICATES

One Original and three copies of Test Certificate from the original manufacturer containing the following information should be provided.

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

Note:

- A manufacturer supplying directly to BHEL should include BHEL's P.O. No. and Challan No. also in the TC.
- 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

Packing should be such as to prevent loss / deterioration in quality during handling, transport and storage. It should be in the original manufacturer's packing. Each package should be marked with the following details.

Name of the material  
Manufacturer's Name / Trade mark  
Batch/Lot No.  
Net weight.

WORKED  
BY

M.K.SAHU

07/09/09

CHECKED  
BY

RANJAN

07/09/09

CONTROLLED COPY

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**REVISION RECORD SHEET**

SN	Revision No.	Revision date	Nature of Changes
01.	04	17.07.2006	-Packing clause modified.
02.	05	07.09.2009	-Clauses 8 and 9 revised incorporating requirement of manufacturer's packing and Test certificate.

ISSUED BY:	SMS	WORKED	M.K.SAHU <i>MKS</i>
REVISION	05	CHECKED	RANJAN <i>Ranjan</i>
DATE:	07/09/09	APPROVED	P.P.S.C.
AGREED	PLANT PUR. SPEC.COMMTTEE		