



PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05003 Rev 4

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LOW CARBON FERRO MANGANESE

1. SCOPE

This specification governs the quality of low carbon Ferro manganese with the following requirements.

2. APPLICATION

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

3. CONDITION OF DELIVERY

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 in general is based on Indian standards specification IS 1171-1996; Grade:01FeMn83.

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: 1171-1996.

ELEMENT	% MIN	%MAX
Carbon	-	0.10
Manganese	80	85
Silicon	-	1.0
Phosphorus	-	0.05
Sulphur	-	0.03

RMI	S.N.GHOSH	<i>[Signature]</i>	WORKED BY	MK.SAHU	<i>[Signature]</i>
MPIC	SHYAM BABU		CHECKED BY	RANJAN	<i>[Signature]</i>
CHAIRMAN	K.B.SUBPAMANYAM	<i>[Signature]</i>	SUPERVISED BY	SVS NARAYANA	<i>[Signature]</i>
CPSC					
			APPROVED : PLANT STANDARDS COMMITTEE		
			PREPARED : SMS TECH	ISSUED : Steel Melting Shop	DATE : 07/09/09



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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



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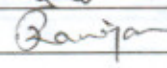
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REVISION RECORD SHEET

SN	Revision No.	Revision date	Nature of Changes
01.	04	07.09.2009	<ul style="list-style-type: none"> -Clauses 8 and 9 revised incorporating requirement of manufacturer's packing and Test certificate. - Clause 3 modified for only one size of material.

ISSUED BY:	SMS	WORKED	M.K.SAHU 
REVISION	04	DATE: 07/09/09	CHECKED RANJAN 
AGREED	PLANT PUR. SPEC.COMMTTEE	APPROVED	P.P.S.C.