



PLANT PURCHASE SPECIFICATION

(CFFP - HARDWARE)

FF 05004 Rev 5

Page 1 of 3

MEDIUM CARBON FERRO MANGANESE

1. SCOPE

This specification governs the quality of Medium carbon Ferro Manganese 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 20-50 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: 2FeMn80.

5. FREEDOM FROM CONTAMINATION



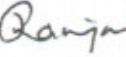
The material shall be free from extraneous contamination such as slag.

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
Manganese	78	82
Carbon	1.0	3.0
Silicon	-	1.5
Phosphorus	-	0.10
Sulphur	-	0.03


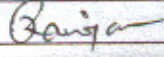
RMI	S.N.GHOSH	WORKED BY	M.K.SAHU
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CHAIRMAN CPSC	R.PARTHASARATHY	SUPERVISED BY	SVS NARAYANA
APPROVED : PLANT STANDARDS COMMITTEE			
PREPARED : SMS TECH		ISSUED : Steel Melting Shop	DATE :

		PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR)		FF 05004 Rev5 Page 2 of 3	
		7. INSPECTION <ul style="list-style-type: none"> • 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. 			
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bhaat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.		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 and Address Name of the material Date of manufacture Batch No. Lot Size Packing size details All parameters mentioned in clause 3,5 and 6 Quantity. Note: <ul style="list-style-type: none"> 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 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 No. Net weight.			
			WORKED BY	M.K.SAHU	 12/2/10
			CHECKED BY	RANJAN	 12/2/10

BHEL	PLANT PURCHASE SPECIFICATION	FF 05004 Rev5
	C.F.F.P. HARDWAR	PAGE: 3 OF 3

REVISION RECORD SHEET

SN	Revision No.	Revision date	Nature of Changes
01.	04	07.09.2009	-Clauses 8 and 9 revised incorporating requirement of manufacturer's packing and Test certificate.
02	05	12.02.2010	-The carbon & Phosphorus content under clause no 6 has been revised. - Size of the alloy has been revised.

ISSUED BY:	SMS	WORKED	M.K.SAHU 
REVISION	05	CHECKED	RANJAN 
AGREED	PLANT PUR. SPEC.COMMTTEE	APPROVED	P.P.S.C.