

PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05070 Rev 0

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SILICO MANGANESE: Grade Si 16 Mn 63

1.0 GENERAL:

This specification governs the quality requirements of SILICO MANGANESE.

2.0 APPLICATION:

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

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

The specification in generally is based on Indian standards specification IS 1470-1990 (Reaffirmed 1999) Grade: Si16Mn63.

4.0 SIZE :

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A) The size should be in the range of 50-150 mm. However oversized or undersized material should not exceed 10% each by weight.

B) FOR MULTI HOPPER SYSTEM

The size should be in the range of 10-50 mm. However oversized or undersized material should not exceed 10% each by weight.

5.0 TEST SAMPLE:

Each batch of material shall be sampled for blended lot in accordance with IS 1472-1977 reaffirmed 2001.

6.0 CHEMICAL COMPOSITION:

The material, when analyzed in accordance with IS: 1559-1961(reaffirmed 2002), shall conform to the following composition.

Composition	Percentage		
	Min	Max	
Manganese	.60	65	
Silicon	14	20	
Carbon	-	2.50	
Sulphur	con the real city and the	0.05	
Phosphorus	The State of the S	0.30	

Trace elements need not to be reported.

The test results are to be rounded off as per IS 2-1960 (reaffirmed 2000).

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7.0 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.
- 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.

8.0 TEST CERTIFICATES:

One Original and three copies of Test Certificate from the Manufacturer containing the following information along with test result of clause 4 and the chemical composition as per clause 6 should be provided.

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

The TC should also contain the BHEL's P.O. No. and Challan No. and packing detail of the material.

9.0 PACKING AND MARKING:

Packing should be such as to prevent loss / deterioration in quality during handling, transport and storage. It should be in the **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.

10.0 REJECTION AND REPLACEMENT:

If the material does not comply with the requirements of this specification during receipt inspection at BHEL or if any defect is found during further processing of the material, BHEL reserves the right to reject the whole consignment not withstanding any previous certification of satisfactory testing and / or inspection. The supplier shall undertake to replace the rejected material at his own cost and the rejected material shall be taken back by the supplier after fulfilling the commercial terms and conditions.

11.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1. IS: 1470-1990. (Reaffirmed 1999)

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CHECKED BY	RANJAN	Banjar	-10/5/10

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