

## PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05068 Rev01

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### **FERRO TUNGSTEN**

#### 1. SCOPE

This specification governs the quality of FERRO TUNGSTEN with the following requirements.

#### 2. APPLICATION

The material shall be used as an alloying addition for manufacturing of steel.

#### 3. CONDITION OF DELIVERY

- A) The size of material should be in the range of 10-50 mm size. However oversized shall not exceed 10% by weight and undersized material shall not exceed 5% by weight.
- B) The size of material should be in the range of 3-8 mm size However oversized shall not exceed 10% by weight and undersized material shall not exceed 5% by weight.

#### 4. COMPLIANCE WITH NATIONAL STANDARDS

The specification in general is based on Indian standards specification IS 1467-1993; Grade: Fe W 80C 60

#### 5. FREEDOM FROM CONTAMINATION

The material shall be free from extraneous contamination such as slag and non metallic inclusion.

#### 6. CHEMICAL COMPOSTION

The material shall conform to the following chemical composition when it is analyzed in accordance with IS: 1559-1961. Each batch of the material shall be sampled in accordance with IS 1472: 1977. All the test results are to be rounded off as per IS 2-1960.

ELEMENT	% MIN	%MAX
Tungsten	75.00	85.00
Carbon		0.60
Silicon		1.00
Phosphorous		0.06
Sulphur	-	0.05

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APPROVED: PLANT STANDARDS COMMITTEE					
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### PLANT PURCHASE SPECIFICATION बीएम ईएम (CFFP - HARDWAR) Page 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. information on this documents is the property of Bharat Heavy Electrical ted. 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 Manufacturer containing the AND CONFIDENTIAL following information along with test result of clause 3,5 and the chemical composition as per clause 6 should be provided. Manufacturer's Name Name of the material Batch No. Lot Size COPYRIGHT Packing size details All parameters mentioned in clause 3 and 6 Quantity. Note: a) A manufacturer supplying directly to BHEL should include BHEL'S P.O. No. and The 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 The material shall be packed in **Tamper proof metallic drum** 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 No. Net weight. 10. REFFERED STANDARDS IS: 1467 -1993, IS: 1559, IS: 1472.

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# **REVISION RECORD SHEET**

SN	Revision	Revision	Nature of Changes
	No.	date	
erty of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company	1	30.07.2010	-Clause 3: Size range redefinedClause 8: Clause 5 included in the T.C Clause 9: Tamper proof metallic drum incorporated as per SP-0612 dated 11.03.2010.

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