



PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05015 Rev 5

Page 1 of 3

FLUORSPAR

1. SCOPE

This specification governs the quality of Fluorspar lumps, fluorspar powder and fluorspar briquettes (starch bonded only) with the following requirements.

2. APPLICATION

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

3. CONDITION OF DELIVERY

- A) Lumps: The size should be in the range of 20-60 mm. However oversized or undersized material should not exceed 10% each by weight.
- B) Briquettes: The size should be in the range of 20-40 mm. However oversized or undersized material should not exceed 10% each by weight.
- C) Powder: 0 - 0.5 mm.

4. COMPLIANCE WITH NATIONAL STANDARDS

The specification in general is based on Indian standards specification IS 2411-1963 (Reaffirmed 2001).

5. FREEDOM FROM CONTAMINATION

The material shall be free from extraneous contamination.

6. CHEMICAL COMPOSITION

The material shall conform to the following chemical composition when it is analyzed in accordance with IS: 2411-1963.

ELEMENT	Briquette (A)	Briquette (B)	Lumps	Powder
CaF ₂	81%(min)	96%(min)	96%(min)	90%(min)
SiO ₂	4.5%(max)	2.5%(max)	2.5%(max)	1.0%(max)
CaCO ₃	3.0%(max)	0.5%(max)	0.5%(max)	0.5%(max)
Mixed oxide	3.5%(max)	1.0%(max)	1.0%(max)	2.0%(max)
Phosphorus	0.3%(max)	0.05%(max)	0.05%(max)	0.02%(max)
Sulphur	0.3%(max)	0.03%(max)	0.03%(max)	0.03%(max)
Lead (Pb)	0.5%(max)	-	-	-

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Page 2 of 3

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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

M.K. Sahu

07/09/09

CHECKED
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RANJAN

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BHEL	PLANT PURCHASE SPECIFICATION	FF 05015 Rev5
	C.F.F.P. HARDWAR	PAGE: 3 OF 3

REVISION RECORD SHEET

SN	Revision No.	Revision date	Nature of Changes
01.	02	09.03.2005	-Format changed.
02.	03	17.07.2006	- Clause 9 modified.
03	04	17.11.2008	-Fluorspar briquettes (type B) added. In clause 4.
04	05	07.09.2009	-Clauses 8 and 9 revised incorporating requirement of manufacturer's packing and Test certificate.

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