



PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05078 Rev00

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BURNT LIME (92% CaO)

1.0 GENERAL:

This specification governs the quality of 92% CaO Burnt Lime for use in steel melting and refining operations.

2.0 APPLICATION:

The material is to be used as flux for steel melting in Electric Arc Furnaces and refining in VAD, VOD & LRF operations.

3.0 COMPLIANCE WITH NATIONAL STANDARD :

No national standard exists for burnt lime used in steel melting and refining operations.

4.0 SIZE:

The material should be supplied in the form of lumps in the size range of 15 to 25 mm. 95% of the material should fall in this range.

5.0 TECHNICAL:

5.1 CHEMICAL PROPERTIES:

Burnt Lime should conform to the following chemical requirements :

ELEMENTS	% MIN.	% MAX.
CaO	92.00	
MgO	-----	2.00
SiO ₂	-----	2.00
Sulphur	-----	0.15
Fe ₂ O ₃ & Al ₂ O ₃	-----	2.00

RMI	ARUN AGARWAL		WORKED BY	M.K.SAHU	
MPIC	ROHIT VARSHNEY		CHECKED BY	B K BEDI	
CHAIRMAN CPSC	V K AGARWAL		SUPERVISED BY	P.K ROY	
			APPROVED : PLANT STANDARDS COMMITTEE		
			PREPARED : SMS TECH	ISSUED : Steel Melting Shop	DATE :



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5.2 LOI (loss on Ignition) :

The loss on ignition should not be more than 4%. LOI should be calculated as per IS 1514.

5.3. Burnt lime is hygroscopic and on exposure to atmosphere absorbs moisture. With long exposure it becomes powder and loses its reactivity. Hence packing and storage are of utmost importance for retaining its properties over a long period of time. Packing has been adequately addressed at clause no 9.0.

6.0 SAMPLING AND METHOD FOR CHEMICAL ANALYSIS:

The sampling and chemical analysis should be done as per IS: 1514

All the test result of Chemical analysis and LOI to be rounded off as per IS 2-1960.

7.0 INSPECTION :

- CFFP reserves the right to witness the testing of the material at supplier works.
- CFFP may, at its discretion, test the material after receipt at CFFP 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.

WORKED
BY

M.K.SAHU

CHECKED
BY

B K BEDI



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8.0 TEST CERTIFICATES :

One Original and three copies of Test Certificate from the manufacturer containing the following information should be provided.

Manufacturer's Name

Name of the material

Batch/Lot No.

Quantity.

Test result of technical parameters mentioned in clause 4.0 and 5.0 (5.1, 5.2, 5.3)

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 Manufacturer's TC as above mentioning BHEL's P.O. No. and Challan number with linkage to manufacture's TC/Batch no.

9.0 PACKING AND MARKING:

The material should be packed in moisture proof polythene lined bags (double lined) with net weight in the range from 25 kg up to 35 Kg. The packing should be strong enough to withstand the rigors of loading/unloading. The packing should be good enough so that material should not gain moisture during storage. The bags should be properly stitched/sealed so that the material is not exposed to atmosphere till opened for usage.

Each bag should be identified with:

Manufacturer's Name

Material Name

Batch/Lot No.

Quantity.

Identification in any manner (Eg. - Stencil marking, Tags, Stickers etc.) is acceptable

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BY

M.K.SAHU

CHECKED
BY

B K BEDI

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REVISION RECORD SHEET

SN	Revision No.	Revision date	Nature of Changes

ISSUED BY:	SMS	WORKED	M.K.SAHU
REVISION	00	CHECKED	B K BEDI