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PART I-SECTION1**

**GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES
Nagpur, the 16th October 2009.**

T-45031/CGBM/2007 (PF) - In exercise of the powers conferred on me under Rule 54 of the Mineral Conservation and Development Rules 1988 and in consultation with state governments and with previous approval of the Central Government, in the interest of systematic development of mineral deposits and conservation of minerals, I hereby notify the threshold values of minerals as indicated below and hereby direct for immediate compliance. These directives are in supersession of the earlier directives issued in this regard

THRESHOLD VALUE OF MINERALS FOR IMPLEMENTATION

Sl. No.	Mineral	Threshold Value
1.	APATITE & ROCK PHOSPHATE	P ₂ O ₅ – 5% (Min)
2.	BAUXITE	(i) For aluminous laterite: Al ₂ O ₃ 20 % (Min) (ii) For Bauxite : Al ₂ O ₃ - 30 % (Min) and silica (reactive) 5% (Max)
3.	BARYTES	BaSO ₄ : 50% (min) Specific gravity - 3.5 (min).
4.	CHROMITE	Cr ₂ O ₃ :10%(Min)
5.	DOLOMITE	MgO : 15%(Min), SiO ₂ : 6% (Max) Total Insolubles : 12 % (Max).
6.	FLUORITE	CaF ₂ : 5% (Min)
7.	GRAPHITE	(i) For flaky variety : 2% Fixed Carbon (F.C) (Min) (ii) For Amorphous variety: 10% Fixed Carbon (F.C)(Min)
8.	IRON ORE:	(i) Hematitic iron ore : 45% Fe(Min) (ii) Hematitic Siliceous Ore (For ore of Goan Origin): 35% Fe (Min)

9.	LIMESTONE	(i) For limestone deposits in Chhattisgarh, Gujarat, Himachal Pradesh, Madhya Pradesh, Maharashtra Rajasthan, Uttarakhand & Uttar Pradesh : CaO – 34% (Min), MgO- 4% (Max) (ii) For limestone deposits of Andhra Pradesh, Jharkhand Karnataka, Kerala, Orissa &, Tamilnadu : CaO-35% (Min), MgO- 4% (Max), SiO ₂ – 18% (Max) & Alkalies- 0.5%(Max)
10	MAGNESITE	MgO : 35 % (Min) CaO- 3% (Max) Fe ₂ O ₃ - 3% (Max).
11.	MANGANESE ORE	Mn: 10% (Min)
12.	WOLLASTONITE	35 % (Min) wollastonite content

For implementation of aforesaid threshold values of minerals the following term is defined:

“Threshold Value of minerals” means limit prescribed by the Indian Bureau of Mines from time to time based on the beneficiability and or marketability of a mineral for a given region and a given time, below which a mineral obtained after mining can be discarded as waste.

The mine owners are directed to comply with following.

1. All the non-saleable/un-usable minerals/ores above the limit prescribed in the threshold values are required to be stacked separately in the area earmarked for the purpose.
2. The mineral/ore stock above the limit prescribed in the threshold values of minerals, should be properly maintained in a bound register indicating the quantity and quality of material stacked. The month wise inventory of such materials shall be updated.
3. The overburden and waste material obtained during mining operation shall not be allowed to be mixed with the materials above the threshold values of minerals stacked.

(C. S. GUNDEWAR)
CONTROLLER GENERAL
INDIAN BUREAU OF MINES