



# Central Building Research Institute

Roorkee

## Beneficiation of Phosphogypsum



- Application/Uses:** Substitute for high purity natural gypsum, suitable for plaster & plaster product
- Salient Technical Features:** Beneficiation by solubilization of impurities and rejection of coarse fraction retained over 300 micron sieve during wet sieving operation followed by centrifuging and drying as per IS:12679-1989.
- Environmental Aspects:** Environment friendly.
- Level/Scale of Development:** Developed on pilot scale.
- Status of Commercialisation:** Know-how available for commercialisation.
- Major Components/  
Raw Materials:** Phosphogypsum, a by-product of phosphatic fertilizer industry.
- Major Plant Equipment:  
and Machinery:** Slurry mixer, stirrers, slurry pumps, vibratory separator/screen hydrocyclone, rotary vacuum filter or centrifuge filter, rotary drier.
- Techno-Economics:** Investment for a plant for producing 3 tonnes per day in 3 shifts is approximately Rs. 26 lakh. The production cost of one tonne of the beneficiated phosphogypsum comes to Rs. 593/- approximately.
- Technology Package:** Process know-how, process demonstration etc.

**For further details please contact :**

Director

Central Building Research Institute, Roorkee - 247 667 (INDIA)

Gram: BILDSERCH

Phone: +91 1332 272243

Fax: +91 1332 272272, 272543;

E. Mail: director@cbrimail.com

Website : www.cbri.org