



Central Building Research Institute

Roorkee

Flooring Tiles from Waste Gypsum



Application/Uses:	For flooring as a replacement to ceramic and cement tiles.
Salient Technical Features:	Tiles are cast by vibration moulding of moist mixture containing gypsum anhydrite plaster, pigments, polymers, fibres etc. Tiles are of high strength, low water absorption and wear resistance as per IS:1237-1980.
Environmental Aspects:	Waste gypsum is used for useful purpose.
Level/Scale of Development	Developed on laboratory scale. Pilot plant of capacity 40 sq.m. per day could be set up with the help of industry.
Status of Commercialisation:	Know-how available for commercialisation.
Major Components/ Raw Materials	Anhydrite plaster from Phosphogypsum, natural or marine gypsum or fluoroanhydrite, pigments, polymers, glass fibres, fly ash/red mud.
Major Plant Equipment and Machinery	Moulds, mixers vibrating tables, curing chamber, drying chamber, rotary kiln, ball mill, grinding and polishing machine and demoulding plates.
Techno-Economics:	Investment for a plant for producing 40 sq.m. tiles per day in 3 shifts is approximately Rs.26.0 lakhs. The production cost of one tile (Size 300 x 300 x 20 mm) comes to Rs. 25/- per sq. ft.
Technology Package:	Process know-how, Process demonstration etc.

For further details please contact :

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