

# GYPSUM PLANT

With our outstanding technical team, we are known as a competent manufacturer and supplier of Gypsum Plant. The Gypsum Production Process has become an important study in terms of the product development and improvement of the *Gypsum Plant*.

## GYPSUM PLANT

A gypsum plant, occasionally referred to as a gypsum processing facility or gypsum factory, is a type of industrial establishment that creates gypsum-based goods. Calcium sulphate dihydrate ( $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ ) is the main component of the soft sulphate mineral known as gypsum, which has several uses in a variety of industries. Gypsum factories are in charge of transforming unprocessed gypsum into forms that may be used in building, agriculture, and industry. The following are some crucial details concerning gypsum plants:



Gypsum factories generally start with the extraction of unprocessed gypsum from quarries or mines. The facility is then visited to carry out additional processing on this raw material.

**Processing:** Crushing, grinding, the calcination and occasionally further chemical treatments are some of the procedures involved in processing raw gypsum. Gypsum is calcined, which is the process of heating it to high temperatures in order to evaporate the water from it and turn it into plaster of Paris or plaster.

**Gypsum Products :** The primary products produced in gypsum plants include:

- ◆ **Plaster of Paris :** This is a white powder obtained by calcining gypsum. It's commonly used for making plaster molds, casts, and ornamental work in construction and art.
- ◆ **Gypsum Boards :** Also known as drywall, plasterboard, or wallboard, gypsum boards are widely used for interior wall and ceiling construction in buildings. They offer fire resistance, sound insulation, and easy installation.
- ◆ **Gypsum Panels and Tiles :** These are used for various interior design and architectural applications, including creating decorative ceilings and wall patterns.
- ◆ **Gypsum Blocks :** These are similar to bricks and are used in construction for partition walls and load-bearing structures.

**Quality Control :** Gypsum products have to comply to strict quality criteria in order to be suitable for a variety industrial application. Gypsum factories use quality control procedures to ensure steady product quality.

# GYPSUM MARKET

The Global Gypsum Board Market size is expected to grow from 15.08 billion square meters in 2023 to 20.37 billion square meters by 2028, at a CAGR of 6.19% during the forecast period (2023-2028).

## Gypsum Production Process

A gypsum production plant is a calcinations unit for the production of powdered gypsum (calcined).

1. Raw Material Crushing
2. Grinding and Separation
3. Calcined Rotary
4. Micronised Calcite Grinding
5. Mixing
6. Chemical Addition for Hardness
7. Dedusting
8. Micro Dosing
9. Packing

## PROJECTS WE DELIVERED

- Angola, Africa Capacity, 50TPD
- Jammu and Kashmir, India Capacity, 150 TPD
- Bhachau Gujarat, India, Capacity 50 TPD
- Morbi Gujarat, India, Capacity 50 TPD
- Rajkot, Gujarat, India, Capacity 50 TPD
- Panoli Surat, Gujarat, Capacity 100 TPD





AN ISO 9001:2015 CERTIFIED COMPANY

# New Fab Engineering System Pvt. Ltd

## WHO WE ARE

**New Fab Engineering System Pvt. Ltd.**, established in 1993 by a team of experienced technocrats, specializes in manufacturing and consulting services for various industrial plants and machinery, including Chemical Plants, Paper Plants, and more. The company is committed to customer satisfaction, focusing on delivering high-quality products to industries such as Chemical, Textile, Food, and Pharma. Their forward-looking vision includes optimizing production capabilities and expanding facilities while embracing modern technology and maintaining a strong emphasis on quality and excellent after-sales service.

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