

IS 6046: 2023

This Indian Standard on Gypsum for Agricultural use' (IS 6046) was first published in 1971, revised in 1982. The 2023 version (second revision) was adopted by the BIS, after the draft finalized by the Soil Quality and Fertilizers Sectional Committee was approved by the Food and Agriculture Division Council.

The standard specifies requirements & method of testing for Gypsum as an amendment for alkali soils, covering aspects such as packing, marking, sampling, and testing.

The standard mandates that all Gypsum must pass through a 2 mm sieve, with at least 50% also passing through a 0.25 mm sieve. Key requirements include a minimum Calcium Sulphate dihydrate content of 50% for Grade 1, 60% for Grade 2, and 70% for Grade 3, along with a maximum sodium content of 0.75% by mass for all the grades.

Gypsum can be supplied in bulk or packaged, with strict labelling requirements detailing the manufacturer, material name, net quantity, Calcium Sulphate content, particle size, and lot number. Sampling must adhere to guidelines from IS 1289, and testing must confirm compliance with specified characteristics.

Annexes detail methods for determining Calcium Sulphate and sodium content, utilizing gravimetric and flame photometer methods. The standard also allows for Bureau of Indian Standards (BIS) certification, indicating conformity with the requirements. Overall, IS 6046:2023 ensures the quality and suitability of gypsum for agricultural applications in managing alkali soils.