

Central Quality Laboratory

ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 ISO 50001: 2018

Integrated Lime Plant

Subaan Lime Private Limited
Village Berathal,, Tehsil Khimsar, Rajasthan – 341025, India

Certificate of Typical Analysis

Product : Cal Hydro

A. Chemical Analysis (Indicative Range*)

1. CaCO_3 (Calcium Carbonate) $\geq 96 \%$
2. MgO (Magnesium Oxide) $\leq 1\%$
3. Fe_2O_3 (Total Iron as Ferric Oxide) ≤ 600 ppm
4. SiO_2 (Silica) $\leq 1 \%$
5. NV (Neutralizing Value) $\geq 97\%$

B. Size**

1. 0.2–2 mm Granular / coarse powder
2. 75–150 μm (100–200 mesh)-Fine Grade
3. <75 μm (200 mesh and finer)- Ultra Finer Grad

C. Particle Size Distribution***

1. Oversize– Nil
2. Coarser Fraction– Controlled (5 to 10 %)
3. Reactive Fraction - Predominant
4. Ultrafine– Controlled/Limited
5. Customize PSD

*Chemical ranges are maintained through scientific mine planning, beneficiation and controlled processing at plant. Final specifications may be aligned within mutually agreed limits based on neutralisation efficiency, alkalinity contribution, pH correction performance, remineralisation requirements, packed-bed behaviour and overall water chemistry control.

** Declared nominal size range is representative of standard production capability. Final size band and top-cut can be customised to suit plant-specific dissolution characteristics, filter media behaviour, slurry preparation, dosing systems and hydraulic loading conditions.

*** Particle size distribution is indicative of controlled production capability. Target fractions may be optimised within agreed limits based on reaction kinetics, acidity load, contact time, bed permeability, remineralisation efficiency and customer-specific treatment process requirements.

Approved by – Head Quality