



COMPANY
Profile

CIMPROGETTI of INDIA

a subsidiary of
CIMPROGETTI[®]
THE GREEN EDGE OF
LIME TECHNOLOGIES
Italy



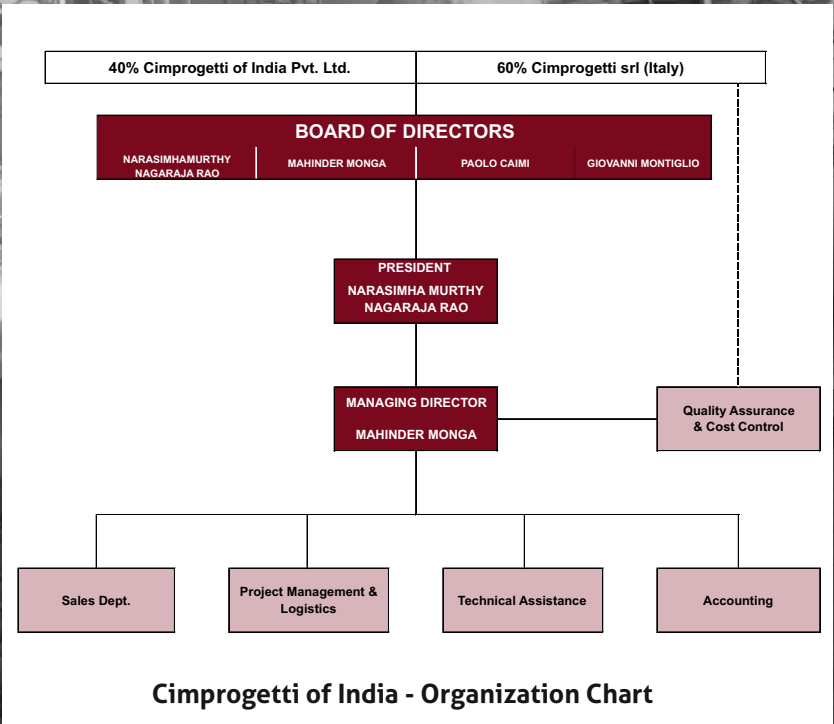
Cimprogetti of India Pvt. Ltd. is part of Cimprogetti Group (Italy) and is your reference point for Cimprogetti's Equipment & Technology for the lime industry in the Territory of India and nearby Countries. Based on the experience gained through more than 20 years of Cimprogetti's presence in the Indian market, our staff has acquired a highly experience and a solid back ground in the lime industry.

reference point

solid back ground

Cimprogetti of India is your ideal partner for supplying bespoke high quality/price effective Lime Technologies, with a consistent aftermarket value.

Cimprogetti of India can assist its customers for the resolution of technical and technological issues with a high level of engineering expertise that applies across all the stages of the project development: Engineering & Procurement Service, Project Management, Technical Assistance and Spare Parts service.

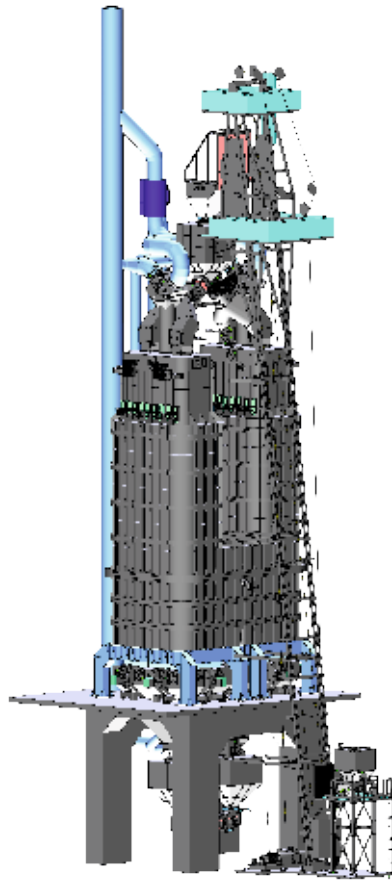


PRODUCT RANGE

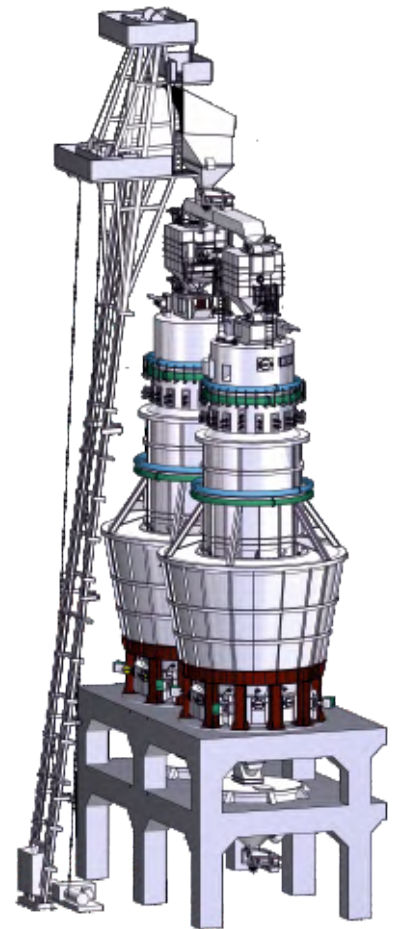
- **LIME KILNS:** supply of equipment, machinery, steelworks, handling plants and ancillaries to be integrated into the plant designed and fabricated by the Parent Company. Adherence to Cimprogetti's level of quality is assured throughout all production process.



ABC®
single shaft cross section



Flex ReVerSy®
direct cross over channel

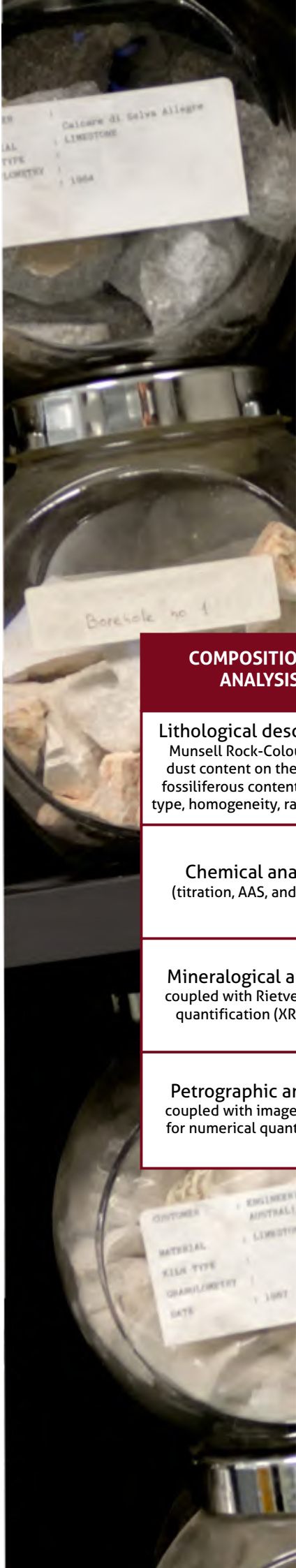


Vanguard®
radial cross over channel

■ **HYDRATION PLANTS:** partially or totally made in India by Indian workshops with 1st class reference, according to Cimprogetti's design. Ancillary equipment have been developed to complement the hydration process, namely the digital weighing feeder Cim-Digidoser, the dedicated bag house, Cim-Zeropoll and the Cim-Microsep separator to allow high performances in different versatile and precise cuts.



CIM-HYDRAX 4G® series
for enhanced fineness of raw material

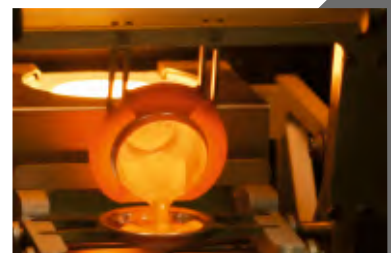


The plant configurations and technological choices of each project are supported by the analysis and testing of raw materials, finished products and fuels carried out in **Cimprogetti's Technological Innovation LAB** in Italy with the scope to determine the equipment and plant specifications and define the applicable performance parameters for the contract.

MATERIALS CHARACTERIZATION

| COMPOSITIONAL ANALYSIS | PHYSICO-MECHANICAL TESTS | TECHNOLOGICAL TESTS |
|--|---|---|
| Lithological description: Munsell Rock-Colour Chart, dust content on the surface; fossiliferous content, textural type, homogeneity, radioactivity | Maximum moisture (\approx capillary porosity) | Standard burning test (\approx TGA analysis) |
| Chemical analysis (titration, AAS, and EDXRF) | Bulk density | Expansion test |
| Mineralogical analysis coupled with Rietveld phase quantification (XRD-QPA) | Mechanical degradation test | Overburning test |
| Petrographic analysis coupled with image analysis for numerical quantification | Drop test | Slaking tests on lime burnt at different T |
| | Grain-size distribution | Particle size distribution (Masterzler Malvern) |
| | Stone morphology | BET Specific Surface area (N ₂ Sorptometer) |

Cimprogetti's analytical approach

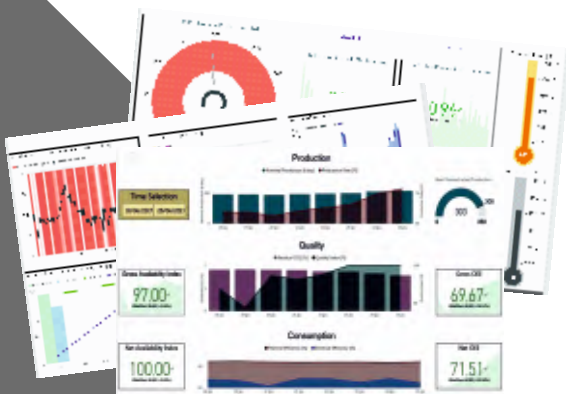


Since 1985, all Cimprogetti plants have been automated and controlled by means of a specific software. Today, the large-scale digitalisation and automation allows the virtual integration of the industrial process based on predictive modeling and machine learning.

COMPUTERIZED CONTROL SYSTEM

The **CIM-LPCS® Supervision System** collects and manages the data from all the tools and sensors the plant is equipped with, as well as the operator input data. **CIM-LPCS®** displays the process, the alarm management, trends, reports and the archival history. Cimprogetti developed a new software application called **BOT Platform™**, that runs automated tasks.

BOT Platform™ starts with data. It collects, cleans, reconciles, analyses, and validates the most suitable route to obtain information and deliver deep insights to our clients.



Starting from the project design and specifications, **Cimprogetti of India** is able to supply the required equipment following the entire manufacturing process: from the procurement of material to mechanical carpentry, from mechanical processing to heat and surface treatments up to packaging and shipment. Quality control measure and testing ensure safety and quality of any delivered equipment. All quality checks are standardized on Monther Company Inspection Test Protocols.



TECHNICAL SERVICE and AFTERMARKET ASSISTANCE:

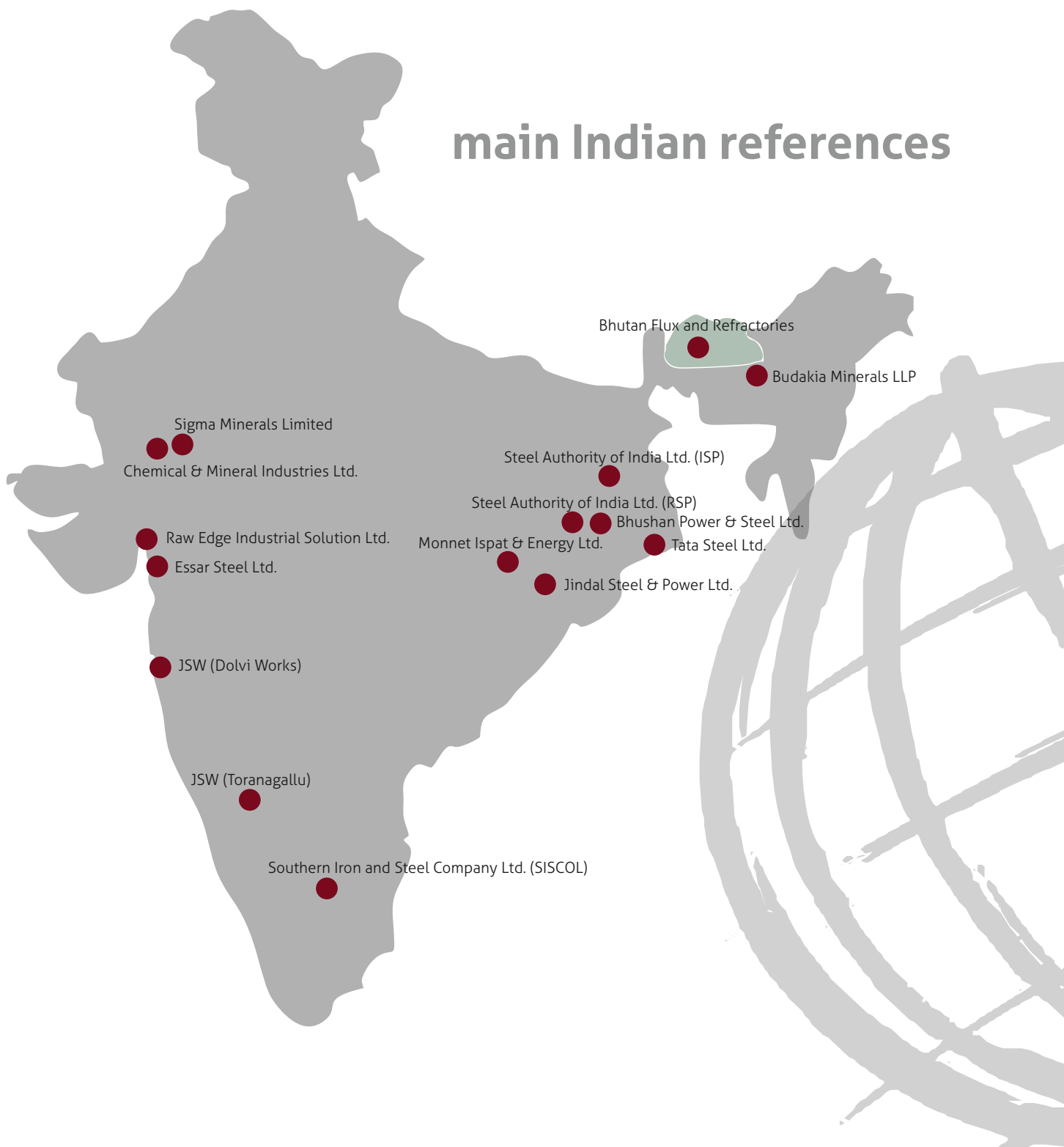
our local staff will assist 24/7 clients during the erection, commissioning and operation stages through the entire life of the plant.

One of the main needs for an industrial production company is the guarantee to have a continuous technical support after the plant start-up for performances optimisation and technical / technological improvement along the time.



CIMPROGETTI involvement in the Indian market started in the early nineties with the supply of the first Twin-D® kiln to Essar Steel Hazira Ltd. Since then, Cimprogetti Srl has continued to supply the most advanced Lime Technologies to the prominent Indian Steel mills Companies, and, in more recent times, Private Indian Companies operating in the lime business and Indian Investors for abroad lime projects.

main Indian references







Cimprogetti - M.A. Greller - 12/2021



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