

# Profile of LHAKI CEMENT

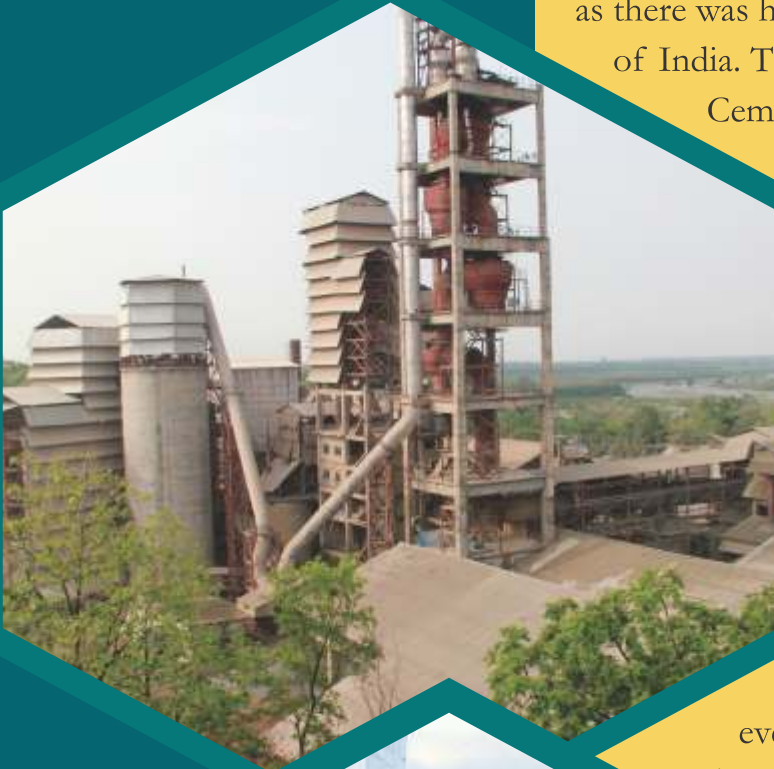


## Background

The Lhaki cement was established in 1993 realizing the need to support construction activities for a developing nation. There was only one cement company in the country prior to Lhaki Cement, which was not able to meet the demand both within and outside the country, as there was huge demand from the neighboring States of India. Therefore, the establishment of Lhaki

Cement was timely and to cater to the soaring demand of cement both to domestic and export.

Lhaki Cement started with 2 units Vertical Shaft Kiln (VSK) of 50 TPD each. One unit was added after few years taking the total capacity of clinker production to 150 TPD and cement production to about 300 TPD. The company has been providing consistent and satisfactory services ever since its establishment. Since the demand for cement was increasing beyond its production, the company decided to augment its capacity by adopting the latest state of art technology in cement production by switching from VSK to Dry Process Rotary Kiln in 2009. The new technology became operational in 2010 enhancing both clinker & cement to 450 TPD and 650 TPD respectively.



# TECHNOLOGY & PROCESS

Lhaki Cement embarked into a new technological with the installation of a 450 TPD Dry Process Rotary Kiln with 5 Stages suspension Pre-heater for manufacture of high quality cement clinker. The additional equipment such as 30 TPH Raw Mill, 100 TPH Lime Stone Crusher, 5 TPH Coal mill and 25 TPH Cement Mill were also installed in Plant to complete total package. Recently, Lhaki Cement commissioned 8 Spouts Rotary Packer and installed 1,000 MT Steel Fly Ash Silo for production of PPC. The plant operation is controlled from the Central Control Room (CCR) by the world renowned "Rockwell" Programmable Logic Control (PLC) System and ABB field instruments.

Due to this technological advancement the cement production also increase to about 650 TPD. Lhaki Cement always gives utmost priority in sourcing high quality raw materials and producing quality cement to satisfy the demand of the customers. The company is always striving for efficiency and excellence to make cement available and affordable to the clients.

The cement production processes at Lhaki Cement is similar to that of any cement plant worldwide. Limestone is the basic raw material for cement manufacturing which is extracted from the captive Mines about 15 km from factory. The lime stones are transported by trippers and crushed to below 25 mm size using rotary impact hammer crusher. It is then mixed with other additives like clay, iron ore, sand stone in predetermined proportion by means of weigh feeders and transported to the Raw Mill to grind to fine powder to form the "raw meal". The raw meal undergoes chemical and physical changes in the Kiln to form clinker when burnt with coal up to 1500 degrees centigrade. The clinker is then blended with gypsum, slag and fly ash in different proportion to produce different kinds of cements as given below.





# PRODUCTS

Lhaki Cement manufactures the standard and popular brands of cement produced in any parts of the world. The product includes high quality Ordinary Portland Cement (OPC - 43 grade) and blended cement like Portland Slag Cement (PSC) and recently introduced Portland Pozzolana Cement (PPC). The cement products are available in 50 kg weight & marketed with different brands, which are mainly differentiated by the bags used for packing such as the HDP and Laminated bags. The Plant uses the 8 Spouts Rotary Packer which makes packing efficient and giving accurate weight of bags.

The products are certified by Bhutan Standard Bureau (BSB) and Bureau of Indian Standard (BIS). Both the organizations check and control the quality of raw materials, clinker and cement products. As a result the products are in conformity with the set standards by both the certifying bodies. The licenses are also renewed every year, where the representatives will collect samples and test in their respective labs to check the quality parameters.



# QUALITY CONTROL

Since quality control is the top most priority in cement production, it is being followed diligently at every stages of cement production. The quality is guaranteed by having a rigid quality control mechanism starting from selection of raw materials to clinker and cement production, which are being tested for its chemical & physical properties to be in conformity with the required standards.

Lhaki Cement has a well equipped Quality Control Unit which strictly maintains the quality standard specified by the BSB & BIS. The unit is also manned by dedicated and well trained professionals to maintain the quality of our products. All the products are subjected to standard testing prior to supply to the markets. We also have a well established redressal system to assist and advice clients in cement use, and in case of any problems with the customers.





# MARKETS

The Lhaki Cement is widely marketed within the country covering all regions, projects, districts right up to the village level. Lhaki cement is widely sought after in the country due to its quality and affordability compare to other cements. Major part of the market is in India covering states such as West Bengal, Assam, Sikkim and Bihar. The cement brands are very popular both in Bhutan & Indian markets and certain segment of society have developed special preference for Lhaki Cement in particular. The cement can be either supplied directly from the factory or routed through the appointed agents both in Bhutan & India.



## HUMAN RESOURCES

LHAKI CEMENT is one of the company providing extensive jobs to its citizens employing large number of males/females giving equal opportunity without any gender biasness. Outsiders are recruited in case of any gaps in expertise within the country. The company also gives high priority for HR development programs like training, meeting, workshops, etc. Staff benefits and welfare is enhanced on a regular basis through attractive salary, incentives, sponsoring social events, and medical benefits. The company also encourages extra-curricular activities like sports, cultural events and other non-business activities.

# ENVIRONMENTAL CONSIDERATIONS

The company aims at sustaining ecological balance in the working areas through sound environmental considerations in all its activities starting from mining to various operations in the plant. The company ensures scientific mining of lime stones as per the "Management Plans" and safe guarding wellness of nature around the mines like trees, water, flora and faunas creating minimum disturbances to the nature.

At the factory, top priority is given to minimum emission by installing standard pollution control equipments like the Air Bag House, Pulse Jet Bag Filters and a multi-cyclone dust collector for cooler gases. Lhaki Cement has an in-house well equipped Environment Cell, staffed with qualified, experienced and dedicated personals responsible for monitoring of emission, air quality, work environment, noise level, process monitoring and the operation and maintenance of pollution control equipments. The environment cell performs its responsibilities in close coordination with other technical departments of the company.

The National Environment Commission (NEC) which is the apex body in Bhutan for monitoring & regulating all environment related issues monitors the effectiveness of the environment conditions from time to time. Any violations for not implementing the guidelines may even result in closure of the factory.



# OCCUPATION HEALTH AND SAFETY

Owing to the nature of work involved in an industry, Occupation Health and Safety (OHS) is a serious concern and cannot be compromised. Hence, Lhaki Cement gives top most priority to OHS to ensure the employees for a safe, healthy and comfortable working environment by providing the standard gadgets. Welfare and safety is an integral part of our operational system.

The company adheres to the standard guidelines provided by the authority in dealing with health & safety issues. Safety posters & sign boards are installed within the premises of the plant to create awareness among the employees, and as a result accidents are very rare in the plant. Thus, Lhaki Cement has maintained very good safety track record for the last many years.



## CORPORATE SOCIAL RESPONSIBILITY

Lhaki Cement undertakes CSR annually at various levels (local, regional and national level) through contributions in the form of cash and kinds in order to support activities of local and national importance.



## CONCLUSIONS

Lhaki Cement is always to be reckoned whenever someone thinks about cement because of its long existence, reliability of services and above all due to its quality. As a result Lhaki Cement is widely used in important projects like bridges, multi-storey buildings, roads and infinite individual constructions both in India & Bhutan. As a result Lhaki Cement is considered one of the most trusted products by all the customers.

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