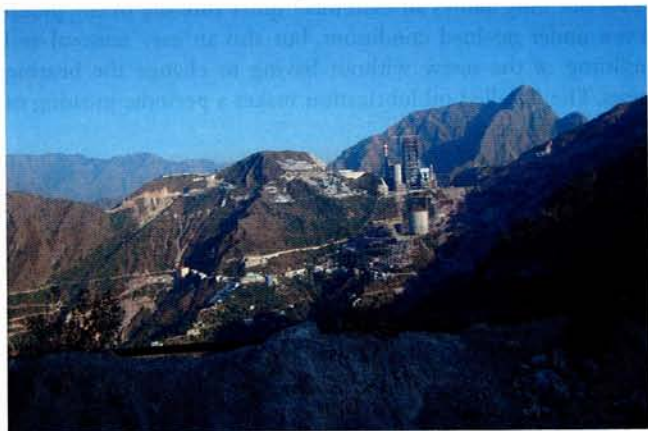


## Intensiv-Filter India provides Bhutan with environmentally friendly dedusting solution

### New cement plant at high altitude

Bhutan, situated at the borders of India and Tibet, is a country of superlatives: The 7541 m high mountain Gangkhar Puensum is the worldwide highest mountain which was never mounted by a person. 80 % of the country is above 2000 m height. Two thirds of the country is wooded. All economic interests of the country are subordinated to the environmental and nature protection. Thus there are few industrial companies in Bhutan. Beside the food and wood processing industry the production of cement is significant (Fig. 1). A reason for Bhutan and India, to reactivate the project of Dungsam Cement plant that already had been planned in the 1980s and postponed in 2001 again due to security reasons. However, in 2005, Bhutan and India decided to resume the proposed project work and signed the order on September 9<sup>th</sup>, 2009 with KHD Humboldt Wedag India Private Limited. The contract agreement comprises the supply of main cement plant and machinery starting from crushing plant to packing plant. The entire plant will be spread over four plots measuring 132.5 acres. By 2012, Dungsam Cement Company will be producing about 1.36 million tons of cement per annum.



1 Future cement plant in the Himalaya Mountain

### Bag filters for the essential positions

The order for the project contained the essential bag filter installations which KHD as prime contractor commissioned to Intensiv-Filter India. The Indian subsidiary of Intensiv-Filter Germany is responsible for engineering and manufacturing, whereat Intensiv-Filter Germany takes care of the quality management. KHD ordered all together six bag filters for different applications and volume flows: kiln/raw mill dedusting, coal mill dedusting, cement mill dedusting and two separator bag filter. The bag filter for kiln/raw mill dedusting is the biggest bag filter with a volume flow of 608 000 m<sup>3</sup>/h n.c., 8 m bag length and 2880 bags. The material of the filter media will be glass fibre with PTFE membrane. Due to the explosive dust within the coal mill, an explosion protection concept for the bag filter was also supplied by Intensiv-Filter. Rupture discs are stipulated to protect the bag filter in case of explosion. The remaining bag filter installations for the cement mill dedusting are designed for a volume flow of 70 000 m<sup>3</sup>/h n.c. each and an operating temperature of 115 °C. The two separator bag filters are dimensioned for 160 000 m<sup>3</sup>/h n.c., 115 °C.

The various activities of the project are in full swing. To keep on track with the time schedule, delivery dated for the bag filters

is September 15<sup>th</sup>, 2011. The entire plant is expected to be operational by the end of 2011. After the plant is commissioned, it is expected to boost the economy of south-east Bhutan besides creating a major export corridor in the north-eastern India.

[www.intensiv-filter.com](http://www.intensiv-filter.com)

### GINO: Starting in a new market

GINO is in the field of power resistors one of the leading companies in Germany. They have a complete range of all kind of resistors, like cast iron, steel grid resistor elements and compact resistors. Applications for the resistors are drive applications like starters (Fig. 1) or resistors for SPRS, neutral grounding resistors, load banks for test fields and braking resistors. To develop new markets and to face up to the local competitors it is required to place branches and manufacturing plants at site. This is especially valid for the expanding Indian market.

After 1½ year market analysis and establishing customer contacts in the fields of cement industry, power supply and distribution, drive and traction technology Gino has now as subsidiary company of Telema a manufacturing in India. We have decided for this step, because a large economic area like India requires a strong present at site to live up to the customers expectations. The local production includes mainly the manufacturing of the housings, assembling of components and after-sale-service for Gion's products. With this Gino has a World Class Manufacturing facility to manufacture all kinds of resistors for Railways and industry applications.

Customer liaison and support is continued by the branch in Mumbai. Mumbai as one of the most important commercial centres of India and its central location makes a customer-oriented support possible. Also the manufacturing plant, nearby the Capital of India, is easy to reach basing on the good infrastructure. The advantage of the local production for the client is the combination of quality and customer focus. Direct discussions with the customer guarantee the best technical and most economic solution. Major customers of Gino are coming worldwide from well-known cement producers, cement plant builders and motor manufacturer.

[www.gino.de](http://www.gino.de)



1 Ball mill with oil cooled starter