

Cold end project between the Ganges and Yamuna rivers

India's Gold Plus Glass Industry Ltd is now operating two float glass production lines that feature Grenzebach cold ends. Jan Lukassek discussed the latest project in *Glass Worldwide*, (preferred international AIGMF journal).

A 380,000m² float glass production facility is great for a big celebration and this was proven by the managers, employees, business partners and guests of the Gold Plus Glass Industry Ltd. The company's latest float line recently went into operation at the Roorkee plant, which is situated between the Ganges and Yamuna rivers with festive ceremonies.

The furnace of this 700 tons float line was heated up in the presence of several hundred spectators in an extensive firing-up ceremony by opening the gas tap. The ceremony was started by a religious act based on Hindu beliefs. The heating up ceremony was followed by a tour through the production halls. Finally, a copious meal was served to all guests. "It was one of the most sumptuous feasts in which I ever participated during a factory opening" said Jan Lukassek, Sales Manager



Art made from glass: Jan Lukassek (right), Sales Manager Glass at Grenzebach, presents a glass sculpture to Subhash Tyagi, Chairman at Gold Plus Glass Industry Ltd.

Glass at the Grenzebach Group. It is the second time that Grenzebach has delivered the cold end for a float line to Gold Plus Glass Industry.

About four weeks after the heating-up ceremony in Roorkee, located about 180km north of Delhi, the first glass floated on the tin bath of the production line and was conveyed by Grenzebach conveyors. The facility produces 700 tons of float glass every day on a 24/7 basis.

Grenzebach solutions for the processing and handling of flat glass with thicknesses of 2mm up to 12mm is a perfect fit for the permanent 24/7/365 manufacture of float glass. "Highest cutting and stacking accuracy, a best possible defect rate and highest availability of the equipment are decisive criteria of success for use in float glass production" says Mr S S R Murthy, Plant Head of Gold Plus Glass Industry. "Grenzebach is a reliable as well as an innovative partner for a stable production process."

Pianos and jumbo stackers

The Grenzebach cold end line is equipped with a thickness and strain measuring system, emergency cross cutter and a scanner for glass sheet inspection. Quality control is supported by means of automated cutting along with a marking bridge, where defects are automatically marked. It goes without saying that an automatic production process control is integrated as well.



With a length of approximately 190m, the cold end equipment from Grenzebach is the end of the latest float glass production line at Gold Glass. Shown here is the main line course towards the continuous ribbon area.

Defective glass plates are removed onto an inclined line section with integrated piano conveyor belt and are removed into the crusher. Glass qualities are sorted onto double-deck conveyors with a piano function.

Safe unstacking of the glass comes at the end. There are three sidelegs with stackers and rotary platforms, where glass sheets can be handled in single and double mode. Especially for big formats and inhomogeneous glass sizes, there is a separate jumbo stacker.

"We will support the cold end in close co-operation with the experts from Gold Plus over the complete life cycle" says Jan Lukassek. "That the management already relies on Grenzebach technology for the second production line is real confirmation that our service for the equipment is already on the highest possible level." More than 300 Grenzebach lines are currently used in the glass industry worldwide.

Important player in India

"By means of the new line, we are able to extend our capacity from 470 tons to 1170 tons of float glass/day" Jimmy Tyagi, Gold Plus Glass Industry Director explains. "We have extended our product palette to all sorts of tinted and tinted reflective glasses. Furthermore, we are able to extend the existing clear glass series."

Gold Plus Glass Industry Ltd is a major player in the Indian flat glass industry. The company, which sets the focus on today's production, processing and trading of various glass categories, was founded in 1985. It was the first Indian-owned company involved in float glass production. ●



From the main line, three sidelines lead towards stackers, rotary platforms and jumbo stacker at the line end.

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