

## 'Turbo-master' meets air demand at JSW

Elgi centrifugal air compressors have been installed at JSW steel plant for its new record breaking production lines. JSW Steel Ltd, a part of the \$4-billion O.P Jindal group, is one of the low cost steel producers in the world with diversified interest in mining, carbon steel, power, industrial gases and port facilities.

These 'turbo master' centrifugal compressors from Elgi form the lungs of a massive new expansion of the JSW steel plants. Capacity has grown enormously with the opening of a new Sinter and Pellet plants in Karnataka, which will produce around 7000 tones of steel per day and bring JSW's annual capacity to 4 million tones. The new Sinter's successful operation depends on an increased supply of oil free, dust free and moisture free compressed air, 365 days a year!



'Turbo-master' at Visvesvaraya Steel Plant, Karnataka

JSW's compressed air system is served by Elgi's 900 HP centrifugal compressors. Air will be supplied at discharge pressures of 8 bar(g) in capacity of 3200 cfm. These oil-free compressors have been designed to feed air to solenoid valve opening for the Corex gas control, calcined lime pneumatic conveying system and for bentonite applications.

The aerodynamic components such as backward leaning impellers and diffusers of the turbo master series are designed to provide high efficiency over a wide operating range. The application of variable inlet guide vanes provides a significant saving of energy costs by reducing the flow rates. When the air demand falls below 100%, the inlet guide vanes optimize the energy consumption of the equipment by adjusting the direction of inlet air.

The associated equipment supplied with the compressors play an important role towards production of high quality air in the system. Each compressor, supplied with desiccant dryers, underslung crane and receivers, caters to the air demand of JSW's new plants.

The turbo master compressors along with associated equipment are housed together in a central compressor station and linked to a central control room. The control room houses a PLC distributed controlled system with Profibus DP connectivity, supplied by Elgi to constantly monitor important parameters of the compressed air plant.

In another major deal from Visvesvaraya Iron and Steel Plant under SAIL, Elgi has supplied centrifugal compressors delivering 6000 m<sup>3</sup>/hr with accessories. These compressors, replacing the existing reciprocating air compressors at the steel plant, have improved the reliability of the plant's production.

### Disclaimer:

This e-mail and any attachment is intended only for the exclusive and confidential use of the addressee(s). If you are not the intended recipient, any use, interference with, disclosure or copying of this material is unauthorized and prohibited. If you have received this message in error, please notify the sender by return e-mail immediately and delete the message from your computer without making any copies. For further information, visit us at [www.elgi.com](http://www.elgi.com).

For any product related enquiries click here [enquiry@elgi.com](mailto:enquiry@elgi.com).

Send us your feedback for our improvement.

Click on this link to unsubscribe this mailer.