



**Contact:**

- Thomas Scarnati: +52 81 8865 2863, [thomas.scarnati@mx.tenovagroup.com](mailto:thomas.scarnati@mx.tenovagroup.com)  
- Marina Landi: +39 010 6054475, [marina.landi@it.tenovagroup.com](mailto:marina.landi@it.tenovagroup.com)

## **Essar Steel of India Chooses Tenova HYL's HYTEMP<sup>®</sup> System for Hazira Works**

**Monterrey, Mexico** June 13, 2008

Essar Steel has contracted with Tenova HYL to design and install a HYTEMP<sup>®</sup> Pneumatic Transport System for transporting hot DRI to their Hazira Works melt shop. The contract calls for a modified HYTEMP<sup>®</sup> System to transport hot DRI from hot DRI containers to charging bins above the EAF's.

The Hazira Works currently operates 5 DR modules located at some distance from its steel mill. To transfer the hot DRI, it uses special containers transported on trucks, hoisted above the electric furnace with an overhead traveling crane and then unloaded into the furnace. This bucket system requires intensive use of cranes and time, which limits the percentage of hot DRI which can actually be charged to the EAF.

The HYTEMP<sup>®</sup> system for the Hazira Works has been designed for charging the furnace from the hot DRI containers, brought in on trucks at ground level just outside the steel mill. Furnace loading will be faster and simpler, with lower loss of temperature and greater overall efficiency. This type of system is an interesting solution for any plant dealing with problems of this kind. Prior to the development of the HYTEMP<sup>®</sup> System, this bucket method was the only viable hot transport method available. Essar, after visiting the Ternium Monterrey plant and observing the consistent operation and virtual lack of maintenance required, chose to install a HYTEMP<sup>®</sup> System at their site in India.

The HYTEMP<sup>®</sup> System was developed by Tenova HYL and installed in the Ternium Monterrey plant in 1998, feeding hot high carbon DRI from the HYL 4M ZR plant to two DC EAF's in the adjacent melt shop. Over 8 million tons of hot DRI have been transported to date, with no operational problems, shutdowns or losses from the system. HYTEMP<sup>®</sup> is the only proven and reliable system in operation for the efficient transfer of hot DRI to the melt shop.

Tenova HYL is a unit of Tenova. Tenova designs and supplies advanced technologies, products and services for the metal and mining industries. Tenova operates close to its customers through a



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