

### TAKRAF tackles iron ore in Russia

Over the past year, TAKRAF told *IM* it has undertaken a number of important steps towards further strengthening its position as a leading global full system provider of IPCC systems. One new highlight within this space concerns TAKRAF's recent contract award for the design, supply, supervision, and commissioning of a new IPCC system for an iron ore mine in Russia.

"TAKRAF's mining engineers integrated themselves with the client's project team in order to deliver a solution that was optimised for the site's specific requirements. This landmark system will convey crushed iron ore from the mine to a new stockyard at an existing beneficiation plant for one of the most important

Russian iron ore producers. The selection of highly reliable individual components combined with system features such as de-coupled crushing and conveying trains and a booster stockpile, results in maximised overall availability of ore to the plant." The key equipment in this 55 Mt/y system includes:

- 2 x 5,500 t/h semi-mobile crushing plants complete with discharge conveyor
- 2 x 3 km long ramp conveyors
- 4 x plant feed conveyors
- 1 x 5,500 t/h stacker/reclaimer with a reversible stockyard conveyor
- A variety of transfer towers and various ancillary equipment

TAKRAF also says it understands that the selection of the right crushing machine is paramount to the development of an effective IPCC system.

"The company's outstanding track record in the design and delivery of high performance crushers is based on a proven methodology that includes material testing in modern rock laboratories, the use of Rocky DEM software employing a TAKRAF breakage model and significant experience garnered from numerous existing operations." Several of the TAKRAF sizers are equipped with vibration, speed and temperature sensors in order to provide real-time application feedback that the company believes make its sizers among "the most innovative and reliable crushing machines available on the market today."

Additionally, the TAKRAF Mining Technology Centre is currently developing innovative solutions for crushing stations that enables them to be easily relocated and thereby avoiding the need for expensive MSE walls. "These new crushing stations will offer significant value across many different crushing applications through reducing both the cost and time associated with relocation."



*TAKRAF sizer pre-assembly at the factory*