

## REVAMPING AND UPGRADING OF SKORPION MZP PLANT FOR NAMZINC (PROPIETARY) Ltd

### PROJECT FACT SHEET



<b>CLIENT:</b>	VEDANTA through NAMZINC Proprietary Ltd
<b>LOCATION:</b>	20 km north of the Rosh Pinah mine, south Namibia
<b>TYPE OF PROJECT:</b>	Revamping and upgrading of the existing plant with ZINCEX™.
<b>TYPE OF CONTRACT:</b>	License and technology supply agreement
<b>CAPACITY:</b>	200,000 t/a of SHG Zinc
<b>DURATION:</b>	20 months
<b>CONTRACT VALUE:</b>	€ 5,500,000,000 (approx.)
<b>LICENSOR:</b>	Técnicas Reunidas
<b>TECHNOLOGY:</b>	Modified Zincex™ Process (MZP)
<b>STATUS:</b>	Contract 27 November 2014

### PROJECT DESCRIPTION



*Bird's eye view of Vedanta's SZ plant.*

Revamping and upgrading of the existing Skorpio Zinc (SZ) plant, increasing its capacity from the current 150,000 tpa to 200,000 tpa of Zinc SHG (purity 99.995%) based on calcine and ore from Skorpio. The scenario in which the current production of 150,000 tpa is maintained, but limiting the raw material to calcine has also been considered.

The plant will operate by applying Modified ZINCEX™ Process (MZP) Technologies to the previously mentioned raw materials of zinc. The MZP is Técnicas Reunidas' proprietary technology, which has been completely developed and industrially tested, and has been working successfully for over 10 years in the SZ plant. It is based on the selective leaching of raw materials, selective extraction of zinc via an organic extractant, and electrolysis of zinc in an aqueous solution to recover it and for it to be melted, ingoted and alloyed into higher added-value products than that of SHG Zinc quality.

### SCOPE OF TR'S WORK

The details of the work contracted are included in the "License and technology supply agreement" signed on 27 November 2014 between Namzinc (Proprietary) Ltd and Técnicas Reunidas. The technology package to be supplied consists of the following:

- **License for Use and Commercial Exploitation** of the technology for increasing the capacity of the plant.
- **Basic Engineering Design Package (BED)** of all the following stages of the process: leaching of raw material(s), extraction with solvents, limestone grinding and impurity control units.
- **Supply of Proprietary Equipment.** TR shall provide the equipment that contains Intellectual Property from TR such as: interface valves and the additional activated carbon filter, which are required for the increase in capacity.
- **Technical Assistance** consisting of supervising the detailed engineering work and the plant construction, and creating the operating and assistance team during commissioning and start-up from the process point of view.