NGM success story: Steel manufacturing company improved mine productivity with sustainable mining, cost optimization and energy saving with help of Atlas Copco.

One of the top steel manufacturing company holds a region of 1160.06 ha in West Singhbhum District of Jharkhand and is being worked for winning of ore having a capacity to provide 10.00 million tons every year, of ore. Mechanized method of open cast mining adopted for mining ore during a series of 12 m high benches with the assistance of shovel-dumper combination.

With a century of experience in mining raw materials, they understand the finite nature of natural resources and strive to uphold responsible mining practices. The company has a full-fledged Environment Management Department to take care of all environmental aspects of various mines. The best part of their work is with effective ore handling plant they are also focusing on environmental aspects such as solid waste management for the waste produced during various processes.

There are various heavy equipments used for mining. Mining trucks constitute heavy-duty dump trucks that are utilized for the transportation of rocks and other material within the post-mining process. They're engineered to be employed in off-road and off-highway conditions and also are equipped to work on slippery roads. In haul trucks in mining, tyre-related issues are often the culprit for heavy vehicle accidents like explosions caused by lightning strikes or high temperature degradation. Tyre-related accidents are a typical risk at mine sites. The lightning strike hazard can cause truck tyres to explode and lead to extensive damage to the upper structure of the truck, including the deck, engine and cab, destroying the complete truck. So, to take care of those various aspects together with **tyre life, corrosion, electricity, maintenance cost** they decided to go with Atlas Copco’s **NGM3 Nitrogen generator, GA compressor, FX refrigeration air dryer** for the **OTR tyre filling application.**

This Nitrogen generator not only satisfied their requirement to inflate a big tyre of size 27R49 with Nitrogen of purity 95% but also increased tyre life. They were able to achieve **higher gas mileage, electricity and cost savings.**

The cooler running temperature of nitrogen improved the tyre life, **reduced frequency of their replacement** and increased tyre safety by minimizing the risk of fires. The bottom line is a **safer, smoother ride, improved fuel economy, and prolonged tyre life** are the things they achieved with help of Atlas Copco.