

ARYA OMNITALK

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# JSW STEEL

Ganua, Jajang, Nuagaon and Narayan Boshi Mines

**Improved the network coverage from 60% to 100%.  
Providing seamless communication leading to  
improved operational efficiency**

## CUSTOMER PROFILE

JSW Group is ranked among India's leading business houses. JSW's innovative and sustainable presence in various sectors including Steel, Energy, Infrastructure, Cement, Paints, Venture Capital and Sports is helping the Group play an important role in driving India's economic growth. With a culturally diverse workforce spread across India, USA, Europe and Africa, JSW Group directly employs nearly 40,000 people.

JSW mines follow strict norms for safety in all of their mines and is in line with Motorola's philosophy "Solving for Safer". They have invested heavily in earth moving equipment's like excavators, dumpers, loaders, water sprinkler and dust management solutions. The operators in these equipment's need vehicle mounted device to coordinate with others at the actual site. They also required radios for their ambulances, survey vehicle and control room.





## **CHALLENGES**

The mines located in Ganua, Jajanga, Nuagaon and Narayan Boshi were earlier using traditional VHF system. The geographical conditions here have made it difficult to operate as it is covered with hills and pits up to 1 kms for mining activity. The senior officials are using radios to coordinate with each other for their day-to-day activities. Highest priority for safety is assigned during excavation and blasting of mines. Safety and security department, electrical, survey department and mechanical workshop are in coordination before and during blasting and excavation activities. In such mission critical activities clear line of sight and complete isolation up to 1 km from the blasting site is mandatory. Hills around the mines posed a challenge for signal transmission. The VHF system could provide only 60% network coverage which led to serious communication gaps in mines. These gaps could lead to life threatening accidents.

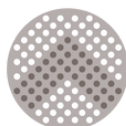
The critical need of JSW is to broadcast emergency messages to one and all and to make safety related announcements to keep workers safe.

An integrated communications system was thus a critical need of JSW, a system which would allow their cross functional teams to interact with each other across the mines, 24X7 communication at the push of a button, with high availability, for mission critical needs, to manage day-to-day operations adhering to all mines safety norms.

## **SOLUTION: SAFETY DURING BLASTING AND EXCAVATION IN MINES**

To overcome these challenges JSW installed fibre optic server room and 3 towers of airtel to improve connectivity. Our TLK 150 were installed in all earth moving equipment's and command control room. For each mine we configured 60 channels and one extra emergency channel wherein all top officials could communicate with each other. The beauty is in case of emergency, the emergency channel can supersede all other channels and all communications can be immediately stopped for the critical situation to be tackled.

Our TLK 150 improved the network coverage from 60% to 100%. All department heads can seamlessly interact with each other thus improving their rapid response time during accidents. By investing in a reliable, seamlessly integrated Motorola Wave PTX technology solution, JSW has streamlined their field operations, improved their response time for all emergencies, enhancing their preparedness multi-fold for any safety related accident.



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