



## Overview

Bharat Aluminium Company (BALCO) is a sizable aluminium company that plays leading role in the aluminium industry in India. In order to further improve its management and operational systems with automation, BALCO has been working on internal system upgrade.

In the case of its warehouse, BALCO understands that the major challenges of deployment are the large area and harsh environment. The site is surrounded by metal materials, which are obstacles for radio signals, and there is no infrastructure for wiring. At the same time, BALCO needs the network infrastructure to be deployed with simple wiring process and is tolerant to high temperature. Therefore, BALCO chose Altai Super WiFi, among the competitors including Cisco and Ruckus, to provide the network coverage for the plant. Altai is famous for its smart antenna technology which is capable to provide coverage for a large area and remain strong signal strength. For the reason, fewer number of equipment is needed when adopting Altai's APs. The installation process was therefore simple and quick.

The deployment was completed efficiently in a short time period as only 10 Altai devices were needed to cover the whole area. The robust WiFi network is able to support the entire automation system including more than 500 handhelds and mobile devices.

**Customer Name:**

Bharat Aluminium Company Ltd.  
(BALCO)  
JNS Systech Pvt Ltd (Distributor)

**Deployment Location:**

India

**Application:**

WiFi network for mobile operation and system management

**Products used:**

A8n(ac), AltaiCare

**Result:**

Combined with AltaiCare, 10 of A8n have been deployed. The new WiFi network is now supporting the entire logistics application system which enables a central management. Such improvement of management has greatly improved the operation efficiency and thus has reduced the cost.

## The Challenge

- Large area coverage
- High temperature environment
- Not suitable for wiring
- The building consists of metal and cement that make it difficult for Wi-Fi signal to penetrate indoors



## The Solution

10 of A8n has been deployed in combination with AltaiCare to provide a full network coverage for all devices under the logistics application (handhelds, barcode scanners). Each A8n has an IP rating of 67.

## The Result

The whole deployment was completed in a professional manner. By adopting Altai's patented super Wi-Fi technology, a satisfying outcome was achieved. All workers can now access the automation system via a good quality WiFi network, which has greatly improved the operation efficiency and thus has reduced the cost.

BALCO was amazed by the fact that Altai's products are tolerant of the high temperature but at the same time able to maintain the WiFi signal strong and stable at every corner of the coverage area.



## About Altai

Altai Technologies is a leading supplier of carrier-grade Wi-Fi products and technologies with a distribution network reaching 100 countries. Altai Super WiFi is the leading solution for vertical industrial markets, covering over 200 terminal ports and airports globally.

The Altai Super WiFi Solution includes a complete portfolio of indoor and outdoor products for carriers, WISPs, and enterprises to support a wide range of applications such as mobile data off load, public access, WLAN access, and backhaul.

Utilizing patented smart antenna technology, as well as a cloud-based management system called AltaiCare, the Altai Super WiFi Solution is designed from the ground up to deliver WiFi networks that have unprecedented performance, reliability, scalability, and manageability.

## Contact Us

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