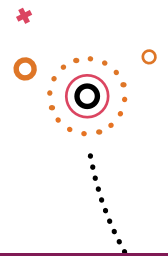# Material NxT
brings visibility and efficiency to the E2E supply chain

Background

Given that providing a critical commodity such as electricity affects the lives of citizens and livelihoods of businesses, the client needed end-to-end visibility into its supply chain—from its factory to storage sites to tower locations.

Challenges

The company's factory, storage sites and tower locations were spread over a huge geographical area. Throughout the enterprise, multiple subcontractors were used and a wide variety of materials was handled. Materials moved through the sites without transparency, leading to deficient demand planning and an inefficient supply chain. The challenges have been listed below:

- The factory lacked the ability to track production status, material coding and storage, bundling and kitting status, dispatches and actual versus planned dispatches.

- The storage sites didn't know the number of full towers, dispatch status, where to store and how to reconcile records to ensure accuracy.

- The tower locations were coming up short in determining where its materials were located, how much stock was available in storage and whether it had received all its requested merchandise.
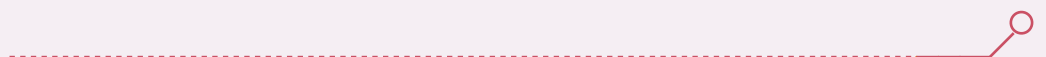
Solution

To overcome these challenges, the Material NxT platform was leveraged to fully integrate a track-and-trace solution that manages materials across the company's supply chain in real-time—from anywhere. The solution includes intuitive dashboards that make it easy to accurately monitor material availability, location, utilization, and reconciliation. This provides the client the information they need to work efficiently and ensures end-to-end supply chain visibility from the factory to the final consumption points.   The solution comprises:

- Physical tagging of material
- Kitting & bundling of material
- Geo-tagged stock locations
- Mobile app for indents, receipts, issues and audits
- Online reports of inventories

Benefits

The power company improved its demand planning by 15% and infused E2E supply chain efficiency into its complex operation. By working with the Material NxT team from Mindtree, the client achieved multiple benefits, including:

End-to-end supply chain visibility from the factory to consumption points	Reduced pilferage and stock-out situations	Timely indents and reconciled stocks

About Mindtree

Mindtree [NSE: MINDTREE] is a global technology consulting and IT services company that enables enterprises across industries to drive superior competitive advantage, customer experiences and business outcomes by harnessing digital and cloud technologies. A digital transformation partner to more than 275 of the world's most pioneering enterprises, Mindtree brings extensive domain, technology and consulting expertise to help reimagine business models, accelerate innovation and maximize growth. As a socially and environmentally responsible business, Mindtree is focused on growth as well as sustainability in building long-term stakeholder value. Powered by more than 35,000 talented and entrepreneurial professionals across 24 countries, Mindtree — a Larsen & Toubro Group company — is consistently recognized among the best places to work.