

LSE listed Mining Giant Vedanta implements RFID at its India facility

EssenRFID's radio frequency identification device Xtenna™ solution encompasses a "Vehicle Tracking System" that is required to monitor entry of over 3,000 trucks daily entering the mining ore/ power plant premises. This has led to enhanced security coupled with creating process efficiencies & has helped identify, monitor any leakages of quantum of ore being carried in, thereby eliminating any inconsistencies in the system.

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LSE-listed diversified FTSE 100 metals & mining company, and India's largest non-ferrous metals and

mining company based on revenues has successfully implemented a UHF RFID solution provided by Mumbai based EssenRFID at its mining sites at Jharsuguda, Orissa. Jharsuguda houses Vedanta's 500,000 tpa aluminum smelter, together with an associated thermal coal-based 1,215 MW captive power plant.

Vedanta's technology partner for the RFID solution, EssenRFID is an Indian OEM headquartered in Mumbai. The RFID solution implemented by EssenRFID is being rolled out into 3 phases of which two

phases are already implemented.



Phase I encompasses tracking materials (assets) that are en route to the power plant. Being located in a tribal belt of Eastern India, security of key personnel & raw/ finished materials becomes paramount & RFID tracking systems help build a greater security ring for the captive power plant & the smelter together.

An average fleet of 3,000 trucks carrying coal & bauxite ores alongwith private vehicles belonging to the employees, enter into the complex on a daily basis. EssenRFID's portal at the security gate ensures that

all data pertaining to the truck such as in-time, out-time, driver name, contractor name is captured in real time through its PoE based integrated reader cum antenna unit, Xtenna™. This data is then passed in real time onto the administrator located at the power plant within the premise for him to monitor & review. EssenRFID has deployed a Tomcat web server based application that is capable of controlling the device remotely & also can reboot any individual Xtenna™ using TCP/IP based settings protocol. This is possible by shutting power off and again switching on for the particular PoE port question resulting in a reset mode for the respective Xtenna™. Front end Application is in Java & AJAX, whereas back-end platform provided by EssenRFID is in .NET framework. It is seamlessly connected to backend SQL database. EssenRFID's hardware device Xtenna™ is connected to 2 LED screen displays, both at the in & out gates respectively that shall depict the information over to the security personnel

Phase II comprises of Tracking of coal & bauxite carrying fleet of trucks, to check for any likelihood of material shortfall / overcharging of weight by contractors. EssenRFID has a weighbridge based RFID solution wherein other than the standard details that a RFID portal shall capture about a truck, its Gross weight & Tare weight in tonnage capacity is recorded & sent across to the backend SQL 2008 version. Based on the recorded inputs, a decision can be taken as to whether the trucker meets with the weightage carrying standards set out by the ore site.

Phase III shall incorporate an image capture module with the help of a camera under which the license plate number of the truck/ vehicle entering the premise shall be captured alongwith data transfer in real-time

EssenRFID's specially designed UHF tag branded as "Parka™" is mounted & fitted onto the windshield of the truck/ vehicle. These tags are being manufactured out of EssenRFID's own tag manufacturing plant in the industrial belt of Baddi, Himachal Pradesh, India.

EssenRFID which launched its UHF based RFID device "Xtenna™" in April 2008 has successfully demonstrated its RFID modules for a) Personnel & Car Parking management systems, b) Asset Tracking including metals & liquids, c) Livestock efficiency management, d) Hospitality management & e) Identification & stoppage of monetary leakages in the Construction industry. The integrated reader cum antenna module "Xtenna™" has been successfully implemented for Manufacturing, Healthcare, Education, Infrastructure, Realty & Defence sectors in India & overseas markets.

EssenRFID's advanced RFID reader, Xtenna™ has dynamic multi-protocol capability that is fully compliant with future standards. Along with superior tag reading performance (upto 50 feet) that not only supports Dense Reader Mode but also overcomes multiple sources of signal interference.

For more details, visit the website www.essenrfid.com

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