

# Terasaki Project Reference:

**Client:**  
Rio Tinto

**Distributor:**  
NHP

**MCC supplier:**  
Plummers Industries

**Project:**  
Amrun Project

**Location:**  
Cape York Peninsula, Queensland, Australia

**Details:**  
The approved \$1.9 Amrun project involves the construction of a bauxite mine and associated processing and port facilities.

With production and shipping at the site expected to commence in the first half of 2019, the planned initial output is 22.8 million tonnes a year increasing annual bauxite exports from Cape York by approximately 10 million tonnes.

**"We've got what you need!"**  
- Terasaki Electric (Europe) Ltd

# Implementing Terasaki breakers into Australia's Biggest Mining Project

In late 2015, Rio Tinto announced it would expand output from one of the world's premier bauxite deposits - the Amrun project. The approved \$1.9 billion project involves the construction of a bauxite mine and associated processing and port facilities on the Cape York Peninsula approximately 40 kilometres south of the Embley River near Boyd Point.

Plummers Industries, the contracted organisation, worked closely with Terasaki Australian distribution partner NHP for product and engineering support. For this project, Plummers were tasked with supplying 27 of their unique 'PI Insulafe' switchboards along with NHP components, including Terasaki MCCBs and ACBs for feeder units. The inclusion of Terasaki ACB's complemented the rigorous testing of the arc fault containment as our double break system splits the arc for optimal safety. This enclosure was also tested for short circuit withstand and temperature rise under the latest Australian and IEC standards.



Terasaki ACB

**Result**

Both Plummers Industries and NHP have made excellent use of Terasaki products amongst other components, in order to deliver an effective solution in which is said to be flexible and easily integrated.

Furthermore, this switchboard system takes switchboard safety to a new level offering a board with arc proof zones reducing the probability of an arc flash by insulating and segregating the conductors and providing segregation of the functional units.



Switchboards with Terasaki equipment



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