

To

Mr. Sandeep Shriyan

Naval Group Australia

CC: Dr. Vinay Sriram, IPACS Power

Date: 23<sup>rd</sup> April 2019

**Subject: Brokk Australia reference letter for IPACS Australia**

Brokk is the world's leading supplier of remote controlled demolition robots. Brokk Australia is headquartered in Adelaide and has a fully equipped workshop with experienced Brokk/Bricking Solutions service technicians, for all your trouble shooting and service. Brokk Australia is a fully owned subsidiary to Brokk AB and the staff of Brokk Australia has been selling Brokk machines in Australia since 2000. Globally Brokk have to date delivered 6000 robots in a variety of different industries.

Over the last 3 years, IPACS Australia have led several projects for Brokk Australia as an EPC. Some of the highlight projects include

- The establishment of a **joint industry university test facility** for autonomous rock breakers at the Mawson Lakes Campus at the University of South Australia.
- Development of a new materials handling system using our robots and new camera systems for removal of clinker inside silos. This technology has received acclaim from the industry.
- Development of a new camera based imaging system for autonomous rock breaking.

In each of these projects, IPACS has demonstrated the ability to undertake

- Requirements analysis and project management using IEEE 29148 Requirements Engineering and IEEE 16326 Project Management standards
- Detail Design Engineering Capabilities the EIA 632 standard for engineering the system
- Procurement of project items in-accordance with customer requirements
- Leading the construction of the "System" including the engineering standards, CAD drawings, quality standards along with the software and hardware deliverables.

IPACS Australia have completed all projects on time and on budget. In fact, Adelaide Brighton Cement (our customer) noted the key contributions of IPACS and Brokk to their management team and stated that the team achieved all the key milestones and the project was delivered with the highest safety standards.



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