



## PLUTO LNG TRAIN 2

MR Number: 26221-100-MRA-JD01-00001

Title: Safety Instrumented System & Fire & Gas System

Scope of Work: SIS and FGS System

Furnish all labor, materials and services for the design, fabrication, testing, preparation, shipment and delivery of the Safety Instrumented System and Fire and Gas System in accordance with all applicable specifications, drawings and data sheets.

Provide full inventory of software including media, licensing, and physical system access devices and shipment to Buyer.

Provide full scope of work, including HMI interface, graphics building, configuration software, system cabinets with redundant processors, I/O chassis, redundant communication modules, firewall, network switches, power distribution, cabling, media converters for 3rd Party packages, Remote and local I/O as indicated, wire, and termination blocks integrated in each cabinet as listed below. Number of I/Os, RIO boxes, work station, and cabinets will be defined later.

- SIS cabinets with controller
- FGS cabinets with controller
- Electronic marshalling for SIS
- Electronic marshalling for FGS
- SIS RIO boxes
- FGS RIO boxes
- RIO power boxes
- SIS Engineering work station
- FGS Engineering work station
- Operator work station
- Engineering services for design, configuration and documentation
- Engineering Services to provide an integrated FAT with a fully configured system
- Engineering services for site power up assistance, installation checkout, connectivity and functional testing
- Integrated project team work process services from date of purchase order including kickoff meetings, customer status meetings, Factory Acceptance Test, Site Acceptance Test and monthly status meetings with various project and client personnel. The integrated project team shall work as

per the Project Definition Sheet which highlight the deliverables and activities and their responsible parties

- SIS startup and commissioning spares
- FGS startup and commissioning spares
- SIS 2-year operating spares
- FGS 2-year operating spares
- Engineers for providing Engineering support and configuration
- Pre-shipment inspection, shipment preparation and post shipment services
- Reassembly and power up services

Compliance with applicable Australian/local regulations, statutory requirements, Australian codes and standards is required.