



## PLUTO LNG TRAIN 2

SR Number:	<b>26221-100-SR5-UB70-00001</b>
Title:	<b>ELECTRICAL CONTRACTING COMPANY REQUIRED FOR Q 1 - 2023 Shutdown Electrical &amp; Instrumentation (Labour Only)</b>
Scope of Work:	<p>The Scope of Work of this Subcontract includes supply of personnel (professional staffs and craft professionals) and small tools required to perform construction activities related to the Electrical and Instrumentation 2023 Shutdown scope, as directed by CONTRACTOR. Activities include electrical &amp; instrumentation installations and testing, equipment inspections, equipment storage and preservation, both above and below grade electrical raceway installation, electrical equipment and fixture installation including supports; and cable pulling including terminations. SUBCONTRACTOR shall provide qualified and experience support personnel to perform work or provide services as requested by CONTRACTOR. Below is the list of classifications of personnel that SUBCONTRACTOR may have to provide with peak staffing estimated at 60 personnel on jobsite:-</p> <ul style="list-style-type: none"><li>• <b>Electricians</b></li><li>• <b>Instrument Technicians</b></li><li>• <b>Electrical Boilermakers</b></li><li>• <b>Trade Assistant (TA)</b></li><li>• <b>Construction supervision (supervisor and general foreman)</b></li><li>• <b>Office administration support staff (filing, document distribution etc.)</b></li></ul> <p>SUBCONTRACTOR duties include the following:</p> <ol style="list-style-type: none"><li>1. Installation of cables, cable trays, cable channels, panels, boxes, instrument stands, tubing, outlets, instruments, fixtures, and all other equipment as shown on the CONTRACTOR Issued for Construction (IFC) drawings and in accordance with manufacturer's instructions.</li><li>2. Supply and installation of all tags (stainless steel) for wire and cable in accordance with the cable schedule and wire termination lists/drawings. All tagging must conform to design specifications and installation details and shall be approved by CONTRACTOR before installation commences. Terminations shall not be considered complete until the tagging is in place.</li><li>3. Provision and application of sealant for all electrical and instrumentation penetrations in Substations and Buildings to avoid water leakage or entry. In general, the penetrations shall be provided by Others. When required, SUBCONTRACTOR shall provide new penetrations that have received prior approval from CONTRACTOR.</li><li>4. Provide necessary assistance to "Manufacturer Representatives" for electrical, control systems and telecommunications equipment as requested by CONTRACTOR.</li><li>5. Energization of electrical equipment at all Substations and installed electrical and control systems equipment with the supervision of CONTRACTOR and any other concerned third-party Vendor after completion of all necessary tests and obtaining CONTRACTOR's approval.</li><li>6. SUBCONTRACTOR shall determine the exact locations and supports required for the field routed cables, cable tray supports, instruments, channels, piping, tubing, lighting fixtures, welding receptacles and other permanent plant equipment/devices. SUBCONTRACTOR shall be responsible for avoiding obstructions with other piping, tubing, plant equipment, walkways, or equipment access ways.</li><li>7. SUBCONTRACTOR shall perform continuity tests (ring out) on all wiring installed by SUBCONTRACTOR, module and skid wiring installed by Others and shall perform all tests as required to demonstrate and verify integrity of wiring and provide documentation completed in accordance with Project procedures. Continuity tests (ring out) for wiring installed by Manufacturer shall be performed by SUBCONTRACTOR under the direction of the Manufacturer representative. Testing of wires and cables shall be as per AS/NZS 3000.</li><li>8. Installation of electrical and instrumentation equipment in hazardous locations by SUBCONTRACTOR shall be in compliance with the requirements as mentioned in the project specifications.</li></ol>