



## Barossa Offshore Project



|                       |  |                     |                  |                       |               |               |   |             |                       |                  |           |
|-----------------------|--|---------------------|------------------|-----------------------|---------------|---------------|---|-------------|-----------------------|------------------|-----------|
| Package No:           | 0482-MI20-60PO-9900  |                     |                  |                       |               |               |   |             |                       |                  |           |
| Package Name:         | <b>UPS System</b>  |                     |                  |                       |               |               |   |             |                       |                  |           |
| Scope of Work         | <p>UPS Rating : 220KVA, 230V AC, 3-Phase, 60Hz, 0.8p.f. IP23, Ambient 40Deg.C<br/>Quantity : 2Nos.</p> <table border="1"> <tr> <td>RATED INPUT VOLTAGE</td> <td>440VAC, +/-2.5 %</td> </tr> <tr> <td>RATED INPUT FREQUENCY</td> <td>60 Hz, +/-5 %</td> </tr> <tr> <td>NO. OF PHASES</td> <td>3</td> </tr> <tr> <td>FAULT LEVEL</td> <td>Input: 80 KA for 1sec</td> </tr> <tr> <td>SYSTEM GROUNDING</td> <td>IT System</td> </tr> </table> <p>UPS Configuration : Each system shall consist of;</p> <ul style="list-style-type: none"> <li>- 2x100% Converters</li> <li>- 2x100% Inverters</li> <li>- 2x50% Battery Banks</li> <li>- 1x100% By-pass Transformer</li> <li>- 1No. DB (for each system A&amp;B)</li> <li>- 1No. common DB (DB-C) with static switch at incomer (static switch fed from System-A and System-B and common outgoing feeders)</li> </ul> <p>Batteries :</p> <p>Lead Acid VRLA (sealed maintenance free) type with autonomy time of 90-minutes at rated load. Battery life shall be 20 years and aging factor shall be considered as 0.85.</p> <p>Design, supply, manufacture, shop testing, FAT, commissioning (at Company integration yard) and packing of 220V (L-L), 3 Phase, 60Hz, 220kVA AC UPS. Batteries will be installed separately from UPS and shall be located in battery room on battery rack.</p> <ul style="list-style-type: none"> <li>- Battery cell stands made from heavy duty steel having individual battery holder inclusive of all angles, support for above batteries with drip pan at the bottom to protect against the leakage.</li> <li>- Battery Temperature Sensor suitable for IIC, Zone-1</li> <li>- Ex-d Battery Circuit Breaker located inside battery room and it shall come with 24VDC shunt trip coil along with SIL2 interposing relay and diode for interfacing with ICSS system (ASD trip). The battery breaker shall come with key operated ASD bypass switch (with key captive in By-pass position) mounted in front of the Ex-d breaker.</li> <li>- 220VAC Main Distribution Board (Form-2B) in Marine, along with all other metering as per One Line Diagram (dedicated for each UPS). 25% DB outgoing feeders shall be provided with 24V DC SIL-2 Relay and MCB Shunt Trip Coil for ESD trip.</li> </ul> <p>Number of DB Outgoing Feeders for DB-A and DB-B shall be as below;</p> <ul style="list-style-type: none"> <li>- 63A, 3-Pole MCCB – 3Nos.</li> <li>- 32A, 3-Pole MCCB – 3Nos.</li> <li>- 63A, 2-Pole MCB – 5Nos.</li> <li>- 40A, 2-Pole MCB – 5Nos.</li> <li>- 32A, 2-Pole MCB – 10Nos.</li> <li>- 25A, 2-Pole MCB – 10Nos.</li> <li>- 20A, 2-Pole MCB – 25Nos.</li> <li>- 20A, 2-Pole MCB – 50Nos.</li> </ul> <p>Number of DB Outgoing Feeders for DB-A and DB-B shall be as below;<br/>Incomer – Static Switch Rated – 250A, 3-Ph, 3Wire with two incoming supplied from system-A &amp; B.</p> <ul style="list-style-type: none"> <li>- 63A, 3-Pole MCCB – 1No.</li> <li>- 32A, 3-Pole MCCB – 1No.</li> <li>- 63A, 2-Pole MCB – 2Nos.</li> <li>- 40A, 2-Pole MCB – 2Nos.</li> </ul> | RATED INPUT VOLTAGE | 440VAC, +/-2.5 % | RATED INPUT FREQUENCY | 60 Hz, +/-5 % | NO. OF PHASES | 3 | FAULT LEVEL | Input: 80 KA for 1sec | SYSTEM GROUNDING | IT System |
| RATED INPUT VOLTAGE   | 440VAC, +/-2.5 %   |                     |                  |                       |               |               |   |             |                       |                  |           |
| RATED INPUT FREQUENCY | 60 Hz, +/-5 %  |                     |                  |                       |               |               |   |             |                       |                  |           |
| NO. OF PHASES         | 3  |                     |                  |                       |               |               |   |             |                       |                  |           |
| FAULT LEVEL           | Input: 80 KA for 1sec  |                     |                  |                       |               |               |   |             |                       |                  |           |
| SYSTEM GROUNDING      | IT System  |                     |                  |                       |               |               |   |             |                       |                  |           |

- 32A, 2-Pole MCB – 5Nos.
- 25A, 2-Pole MCB – 5Nos.
- 20A, 2-Pole MCB – 20Nos.
- 20A, 2-Pole MCB – 30Nos.

- Bender scanning type Insulation Monitoring and Fault Location System for main distribution boards (including IRDH, EDSs and CT for each feeder). The Bender system shall communicate with facility PMS for fault alarms. The protocol converters shall be in UPS DB scope.

- All consumables shall be included in UPS package scope of supply

Contract Award Q2 2020; Delivery Q4 2020 all units.

## Project Registration

ConocoPhillips is committed to ensuring Australian Industry full, fair and reasonable opportunity to participate in the Barossa Offshore Project. Expressions of Interest are invited from contractors and suppliers with the relevant capability and capacity to undertake the scope of work.

This is a request for specific expressions of interest. Contractors and suppliers will be considered for prequalification and tender if suitably qualified against this package.

**Note** that an important part of the project registration process is to register an Expression of Interest at the correct Scope level.

Scope level definition:

**Full scope:** Able to produce / supply the entire package.

**Partial scope:** Able to produce / supply one or more of the sub-packages.

All registrations are to be completed via ICN Gateway [BarossaOffshore.icn.org.au](http://BarossaOffshore.icn.org.au). Please contact the ICNNT if registration assistance is required. Contact details: (08) 8922 9422 or [admin@icnnt.org.au](mailto:admin@icnnt.org.au).

Project Website: [ConocoPhillips Australia](http://ConocoPhillips Australia)