

<b>Package Number</b>	ABB-EH-01																																																																			
<b>Package Name</b>	HVAC Package for E-House Building																																																																			
<b>Scope of Work (* To be confirmed)</b>	<p>Note: BW Offshore is issuing and managing this Package Summary on behalf of ABB Pte Ltd (ABB), our sub-contractor for E-House Package.</p> <p>HVAC Scope of Work</p> <p>Turnkey supply of the following HVAC equipments including engineering design, procurement, manufacturing, installation, testing &amp; commissioning and project management. HVAC System Design will be in accordance to DNV Classification, ISO15138, SOLAS, ASHRAE, SMACNA, Project Specifications and applicable contract documentations.</p> <table border="1"> <thead> <tr> <th>Equipment Description</th> <th>Quantity</th> <th>Serving</th> <th>Location</th> <th>Hazardous Area Classification</th> </tr> </thead> <tbody> <tr> <td>PAC AirConditioning Unit Cooling Capacity: 457 kW Airflow Rate: 14,819 L/s</td> <td>2 X 100% 1 duty 1 standby</td> <td>MV Switch, LV Switch, Instrument Equipment, Battery Room</td> <td>Rooftop</td> <td>Zone 1</td> </tr> <tr> <td>Fresh Air Ventilation Fan Airflow Rate: 19,496 L/s</td> <td>2 x 100% 1 duty 1 standby</td> <td>Transformer Room</td> <td>Rooftop</td> <td>Zone 2</td> </tr> <tr> <td>Exhaust Air Ventilation Fan Airflow Rate: 18,920 L/s</td> <td>2 x 100% 1 duty 1 standby</td> <td>Transformer Room</td> <td>Rooftop</td> <td>Zone 2</td> </tr> <tr> <td>Exhaust Air Ventilation Fan Airflow Rate: 1,027 L/s</td> <td>2 x 100% 1 duty 1 standby</td> <td>Battery Room</td> <td>Rooftop</td> <td>Zone 1</td> </tr> <tr> <td>Control Panel</td> <td>1 No.</td> <td>HVAC System</td> <td>Instrument Equipment Room</td> <td>Safe</td> </tr> <tr> <td>MCC Panel</td> <td>1 No.</td> <td>HVAC System</td> <td>LV Switch Room</td> <td>Safe</td> </tr> <tr> <td>Purging Panel</td> <td>1 No.</td> <td>HVAC System</td> <td>Rooftop</td> <td>Zone 1</td> </tr> <tr> <td>Duct Heater</td> <td>1 No.</td> <td>HVAC System</td> <td>Indoor</td> <td>Safe</td> </tr> <tr> <td>Ducting System, Dampers and Grilles</td> <td>1 Lot</td> <td>All Rooms</td> <td>Indoor and Outdoor</td> <td>Zone 1 for Motorized Dampers</td> </tr> <tr> <td>Field Instruments</td> <td>1 Lot</td> <td>All Rooms</td> <td>Indoor and Outdoor</td> <td>Zone 1</td> </tr> </tbody> </table> <p><b>Environmental and Indoor Conditions</b></p> <table border="1"> <thead> <tr> <th>Weather</th> <th>Outdoor Condition</th> <th>Indoor Condition</th> </tr> </thead> <tbody> <tr> <td>Summer Temperature / RH</td> <td>35 degC DB / 90% RH</td> <td>23 degC DB / 45 to 60% RH</td> </tr> <tr> <td>Winter Temperature / RH</td> <td>21 degC DB / 30% RH</td> <td>19 degC DB / 45 to 60% RH</td> </tr> </tbody> </table> <p>Note: Transformer room indoor temperature is maintained at 45degC by mechanical ventilation (10degC Delta T).</p> <p>Expected award date: Q4 2021 * Expected delivery date: Q3 2022 *</p>				Equipment Description	Quantity	Serving	Location	Hazardous Area Classification	PAC AirConditioning Unit Cooling Capacity: 457 kW Airflow Rate: 14,819 L/s	2 X 100% 1 duty 1 standby	MV Switch, LV Switch, Instrument Equipment, Battery Room	Rooftop	Zone 1	Fresh Air Ventilation Fan Airflow Rate: 19,496 L/s	2 x 100% 1 duty 1 standby	Transformer Room	Rooftop	Zone 2	Exhaust Air Ventilation Fan Airflow Rate: 18,920 L/s	2 x 100% 1 duty 1 standby	Transformer Room	Rooftop	Zone 2	Exhaust Air Ventilation Fan Airflow Rate: 1,027 L/s	2 x 100% 1 duty 1 standby	Battery Room	Rooftop	Zone 1	Control Panel	1 No.	HVAC System	Instrument Equipment Room	Safe	MCC Panel	1 No.	HVAC System	LV Switch Room	Safe	Purging Panel	1 No.	HVAC System	Rooftop	Zone 1	Duct Heater	1 No.	HVAC System	Indoor	Safe	Ducting System, Dampers and Grilles	1 Lot	All Rooms	Indoor and Outdoor	Zone 1 for Motorized Dampers	Field Instruments	1 Lot	All Rooms	Indoor and Outdoor	Zone 1	Weather	Outdoor Condition	Indoor Condition	Summer Temperature / RH	35 degC DB / 90% RH	23 degC DB / 45 to 60% RH	Winter Temperature / RH	21 degC DB / 30% RH	19 degC DB / 45 to 60% RH
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**Project Registration**

Santos is committed to ensuring Australian Industry the opportunity to participate in the Barossa 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 all the packages.

**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 resources@icnnt.org.au](mailto:resources@icnnt.org.au).

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