

skid base with the fans being driven by a multi-belt drive with not less than 2 belts on the drive. Belt tensioning and motor alignment facilities shall be provided. Fan belt drives shall meet the requirements of ANSI / RMA IP20.

- Fans shall be complete with mesh belt drive guard with openings such that belt tension checks, motor speed checks, and fan speed checks can be made without the removal of fan belt drive guard. Belt drive guard shall be provided with a brass anti spark track.
- Centrifugal fans shall be provided with a plugged condensate drain at the scroll bottom.
- The fan assembly shall include an integral support frame. This frame shall be suitable for lifting and transportation without permanent deflection. Lifting eyes or lugs shall be provided bolted to the support frame.
- The fan anti-vibration mounting shall be supplied loose for bolting to the support frame on site.
- An earth boss shall be provided welded to the support frame. All fans shall be provided with an easily removable inlet cone.
- Centrifugal fans are to have a minimum efficiency of 70%.
- Axial flow fans shall be of the direct driven, belt driven, or bifurcated type to suit the application and system resistances, complete with electrical motor. Design and selection shall be in accordance with AMCA & ISO15138.
- Direct drive axial fans shall have junction boxes mounted outside the fan casing, and be pre-wired with approved cable between the motor and the junction box.
- Blades shall be of aerofoil shape, attached to a hub and include adjustable pitch facility. Fan casings shall be flanged and of fully welded construction to suit application and approved by MODEC.
- Fan duty point shall be selected as close as possible to the optimum efficiency point on the performance curve to achieve a minimum efficiency of 60%, minimal electrical power requirements, and low fan speeds, noise, and loads on bearings and impellers.
- Fans for use in hazardous areas shall be suitable for the application, having, anti-sparking and anti- static protection. Materials used shall be incombustible (aluminum shall not be used). Non sparking rubbing strips shall be incorporated where moving, parts may come in contact. Drive belts shall be anti-static. All electrical components supplied with fans for hazardous areas shall be rated and labeled as explosion proof and be suitable for use in that zone, gas type, and temperature class.

Preliminary mechanical ventilation fans are listed as below. The equipment parameters are for reference only and should be rechecked and confirmed during detail design phase.

No.	Description	Q'ty	Capacity (preliminary)	Remark
1	Generator Rm Sup. Fan	2	Air flow: 120000 m3/h Axial	2x50%
2	Cargo Handling HPU Rm Sup. Fan	1	Air flow: 68000 m3/h Axial	1x100%
3	Remote Valve Rm Sup. Fan	1	Air flow: 920 m3/h, Centrifugal/axial	1x100%
4	Warehouse Sup. Fan	1	Air flow: 11960 m3/h Axial	1x100%
5	Fore Fire Pump Rm Sup. Fan	1	Air flow: 8360 m3/h Axial/centrifugal	1x100%
6	Emergency Generator Rm Sup. Fan	1	Air flow: 3890 m3/h axial	1x100%
7	Fire Pump Rm Sup. Fan	1	Air flow: 2400 m3/h	1x100%

	(P side)		Axial	
8	Fire Pump Rm Sup. Fan (S side)	1	Air flow: 2400 m3/h Axial	1x100%
9	Water Mist Rm & Inergen Rm Sup. Fan	1	Air volume: 4260 m3/h Axial	1x100%
10	High Exp. Foam Rm Exh. Fan	1	Air flow: 1070 m3/h Axial	1x100%
11	Low Exp. Foam Rm Exh. Fan	1	Air flow: 1540 m3/h Axial	1x100%
12	FWD Mach Mech. Sup. Fan	1	Air flow: 45166 m3/h Axial	1x100%
13	FWD TR Mech. Sup. Fan	1	Air flow: 7000 m3/h Axial	1x100%
14	Paint Store Mech. Exh. Fan	1	Air flow: 1990 m3/h, EX axial	1x100%
15	Fire Water Feed Pump Mech. Sup. Fan	1	Air flow: 1008 m3/h Axial	1x100%
16	FWD Mach Mech. Exh. Fan	1	Air flow: 45166 m3/h Axial	1x100%
17	Fire Store Mech. Sup. Fan	1	Air flow: 240 m3/h Duct	1x100%
18	Fire Water Feed Pump Mech. Exh. Fan	1	Air flow: 1008 m3/h Axial	1x100%
19	Cargo Handling HPU Rm Exh. Fan	1	Air flow: 68000 m3/h Axial	1x100%
20	Machinery Space Sup. Fan	1	Air flow: 40000 m3/h Axial	1x100%
21	Machinery Space Exh. Fan	1	Air flow: 40000 m3/h Axial	1x100%

Contract Award Q2 2020; Delivery Q3 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. Please contact the ICNNT if registration assistance is required. Contact details: (08) 8922 9422 or admin@icnnt.org.au.

Project Website: ConocoPhillips Australia