

PROJECT OVERVIEW	Perdaman Chemicals and Fertilisers are focused on the development of the world's largest stream urea plant with a production capacity of 2 MTPA. The plant is located within the Burrup Strategic Industrial Area, Burrup Peninsula, approximately 10km from Dampier and 20km north-west of Karratha on the north west coastline of Western Australia. The development will utilise local natural gas for fertiliser production, using innovative and low-emissions technologies and will be Australia's first Urea Export Project generating Export Revenue of US\$ 800 Million/year. The facility will consist of a Syngas Production Block, Fertiliser Production Block and Offsite Facilities and Utilities.																																																																				
PACKAGE TITLE:	PRESSURE VESSELS (MP,LP)																																																																				
PACKAGE NO:	P5111A																																																																				
SCOPE:	<p>The Pressure Vessel package will include:</p> <table border="1" data-bbox="285 930 1421 1871"> <thead> <tr> <th data-bbox="285 930 529 1024">Equipment Name.</th> <th data-bbox="532 930 602 1024">Qty.</th> <th data-bbox="605 930 737 1024">Type</th> <th data-bbox="740 930 943 1024">Dimension Frame (W x H)</th> <th data-bbox="946 930 1078 1024">Design Pressure (Mpag)</th> <th data-bbox="1081 930 1229 1024">Design Temperature (deg C)</th> <th data-bbox="1232 930 1421 1024">MOC</th> </tr> </thead> <tbody> <tr> <td data-bbox="285 1029 529 1157">LEVEL TANK FOR LP CARBAMATE CONDENSER</td> <td data-bbox="532 1029 602 1157">1</td> <td data-bbox="605 1029 737 1157">*Vertical</td> <td data-bbox="740 1029 943 1157">*2750 ID (mm) x 2800 TT (mm)</td> <td data-bbox="946 1029 1078 1157">*0.5</td> <td data-bbox="1081 1029 1229 1157">*165</td> <td data-bbox="1232 1029 1421 1157">*304L (Shell) / 304L (Internals)</td> </tr> <tr> <td data-bbox="285 1161 529 1255">HEAD TANK</td> <td data-bbox="532 1161 602 1255">1</td> <td data-bbox="605 1161 737 1255">*cylinder</td> <td data-bbox="740 1161 943 1255">*2100 ID (mm) x 3000 TT (mm)</td> <td data-bbox="946 1161 1078 1255">*0.7</td> <td data-bbox="1081 1161 1229 1255">*100</td> <td data-bbox="1232 1161 1421 1255">*CS (Shell) / CS (Internals)</td> </tr> <tr> <td data-bbox="285 1260 529 1354">SEAL VESSEL AT AMMONIA WATER TANK</td> <td data-bbox="532 1260 602 1354">1</td> <td data-bbox="605 1260 737 1354">*cylinder</td> <td data-bbox="740 1260 943 1354">*600 ID (mm) x 1500 TT (mm)</td> <td data-bbox="946 1260 1078 1354">*atm</td> <td data-bbox="1081 1260 1229 1354">*100</td> <td data-bbox="1232 1260 1421 1354">*304 (Shell) / 304 (Internals)</td> </tr> <tr> <td data-bbox="285 1358 529 1453">LEVEL TANK FOR REFLUX CONDENSER</td> <td data-bbox="532 1358 602 1453">1</td> <td data-bbox="605 1358 737 1453">*Vertical</td> <td data-bbox="740 1358 943 1453">*2000 ID (mm) x 2100 TT (mm)</td> <td data-bbox="946 1358 1078 1453">*0.5</td> <td data-bbox="1081 1358 1229 1453">*160</td> <td data-bbox="1232 1358 1421 1453">*304 (Shell) / 304 (Internals)</td> </tr> <tr> <td data-bbox="285 1457 529 1551">ATM FLASH SEPARATOR</td> <td data-bbox="532 1457 602 1551">1</td> <td data-bbox="605 1457 737 1551">*Vertical</td> <td data-bbox="740 1457 943 1551">*1660 ID (mm) x 2650 TT (mm)</td> <td data-bbox="946 1457 1078 1551">*0.1</td> <td data-bbox="1081 1457 1229 1551">*165 (See D/S)</td> <td data-bbox="1232 1457 1421 1551">*304L (Shell) / 304L (Internals)</td> </tr> <tr> <td data-bbox="285 1556 529 1650">PRE-EVAPORATOR SEPARATOR</td> <td data-bbox="532 1556 602 1650">1</td> <td data-bbox="605 1556 737 1650">*Vertical</td> <td data-bbox="740 1556 943 1650">*1130 ID (mm) x 1900 TT (mm)</td> <td data-bbox="946 1556 1078 1650">*0.35</td> <td data-bbox="1081 1556 1229 1650">*165</td> <td data-bbox="1232 1556 1421 1650">*304 (Shell) / 304 (Internals)</td> </tr> <tr> <td data-bbox="285 1654 529 1749">LP STEAM DRUM</td> <td data-bbox="532 1654 602 1749">1</td> <td data-bbox="605 1654 737 1749">*Vertical</td> <td data-bbox="740 1654 943 1749">*6000 ID (mm) x 9000 TT (mm)</td> <td data-bbox="946 1654 1078 1749">*0.83</td> <td data-bbox="1081 1654 1229 1749">*180</td> <td data-bbox="1232 1654 1421 1749">*CS (Shell) / CS (Internals)</td> </tr> <tr> <td data-bbox="285 1753 529 1871">HP STEAM SATURATOR</td> <td data-bbox="532 1753 602 1871">1</td> <td data-bbox="605 1753 737 1871">*Horizontal</td> <td data-bbox="740 1753 943 1871">*2300 ID (mm) x 6300 TT (mm)</td> <td data-bbox="946 1753 1078 1871">*2.65</td> <td data-bbox="1081 1753 1229 1871">*240</td> <td data-bbox="1232 1753 1421 1871">*CS (Shell) / CS (Internals)</td> </tr> </tbody> </table>						Equipment Name.	Qty.	Type	Dimension Frame (W x H)	Design Pressure (Mpag)	Design Temperature (deg C)	MOC	LEVEL TANK FOR LP CARBAMATE CONDENSER	1	*Vertical	*2750 ID (mm) x 2800 TT (mm)	*0.5	*165	*304L (Shell) / 304L (Internals)	HEAD TANK	1	*cylinder	*2100 ID (mm) x 3000 TT (mm)	*0.7	*100	*CS (Shell) / CS (Internals)	SEAL VESSEL AT AMMONIA WATER TANK	1	*cylinder	*600 ID (mm) x 1500 TT (mm)	*atm	*100	*304 (Shell) / 304 (Internals)	LEVEL TANK FOR REFLUX CONDENSER	1	*Vertical	*2000 ID (mm) x 2100 TT (mm)	*0.5	*160	*304 (Shell) / 304 (Internals)	ATM FLASH SEPARATOR	1	*Vertical	*1660 ID (mm) x 2650 TT (mm)	*0.1	*165 (See D/S)	*304L (Shell) / 304L (Internals)	PRE-EVAPORATOR SEPARATOR	1	*Vertical	*1130 ID (mm) x 1900 TT (mm)	*0.35	*165	*304 (Shell) / 304 (Internals)	LP STEAM DRUM	1	*Vertical	*6000 ID (mm) x 9000 TT (mm)	*0.83	*180	*CS (Shell) / CS (Internals)	HP STEAM SATURATOR	1	*Horizontal	*2300 ID (mm) x 6300 TT (mm)	*2.65	*240	*CS (Shell) / CS (Internals)
Equipment Name.	Qty.	Type	Dimension Frame (W x H)	Design Pressure (Mpag)	Design Temperature (deg C)	MOC																																																															
LEVEL TANK FOR LP CARBAMATE CONDENSER	1	*Vertical	*2750 ID (mm) x 2800 TT (mm)	*0.5	*165	*304L (Shell) / 304L (Internals)																																																															
HEAD TANK	1	*cylinder	*2100 ID (mm) x 3000 TT (mm)	*0.7	*100	*CS (Shell) / CS (Internals)																																																															
SEAL VESSEL AT AMMONIA WATER TANK	1	*cylinder	*600 ID (mm) x 1500 TT (mm)	*atm	*100	*304 (Shell) / 304 (Internals)																																																															
LEVEL TANK FOR REFLUX CONDENSER	1	*Vertical	*2000 ID (mm) x 2100 TT (mm)	*0.5	*160	*304 (Shell) / 304 (Internals)																																																															
ATM FLASH SEPARATOR	1	*Vertical	*1660 ID (mm) x 2650 TT (mm)	*0.1	*165 (See D/S)	*304L (Shell) / 304L (Internals)																																																															
PRE-EVAPORATOR SEPARATOR	1	*Vertical	*1130 ID (mm) x 1900 TT (mm)	*0.35	*165	*304 (Shell) / 304 (Internals)																																																															
LP STEAM DRUM	1	*Vertical	*6000 ID (mm) x 9000 TT (mm)	*0.83	*180	*CS (Shell) / CS (Internals)																																																															
HP STEAM SATURATOR	1	*Horizontal	*2300 ID (mm) x 6300 TT (mm)	*2.65	*240	*CS (Shell) / CS (Internals)																																																															



MP STEAM SATURATOR	1	*Horizontal	*1700 ID (mm) x 2300 TT (mm)	*1.15	*215	*CS (Shell) / CS (Internals)
LEVEL TANK FOR LP CARBAMATE CONDENSER	1	*Vertical	*2750 ID (mm) x 2800 TT (mm)	*0.5	*165	*304L (Shell) / 304L (Internals)
HEAD TANK	1	*cylinder	*2100 ID (mm) x 3000 TT (mm)	*0.7	*100	*CS (Shell) / CS (Internals)
SEAL VESSEL AT AMMONIA WATER TANK	1	*cylinder	*600 ID (mm) x 1500 TT (mm)	*atm	*100	*304 (Shell) / 304 (Internals)
LEVEL TANK FOR REFLUX CONDENSER	1	*Vertical	*2000 ID (mm) x 2100 TT (mm)	*0.5	*160	*304 (Shell) / 304 (Internals)
ATM FLASH SEPARATOR	1	*Vertical	*1660 ID (mm) x 2650 TT (mm)	*0.1	*165 (See D/S)	*304L (Shell) / 304L (Internals)
PRE-EVAPORATOR SEPARATOR	1	*Vertical	*1130 ID (mm) x 1900 TT (mm)	*0.35	*165	*304 (Shell) / 304 (Internals)
LP STEAM DRUM	1	*Vertical	*6000 ID (mm) x 9000 TT (mm)	*0.83	*180	*CS (Shell) / CS (Internals)
HP STEAM SATURATOR	1	*Horizontal	*2300 ID (mm) x 6300 TT (mm)	*2.65	*240	*CS (Shell) / CS (Internals)
MP STEAM SATURATOR	1	*Horizontal	*1700 ID (mm) x 2300 TT (mm)	*1.15	*215	*CS (Shell) / CS (Internals)
START-UP BIN	1	*-	*(TBC)	*0.6 / -	*85	*304 (Casing) / - (Internals)
COARSE PRODUCT BIN	2	*-	*(TBC)	*7 / -	*85	*304 (Casing) / - (Internals)
HEAD TANK	1	*cylinder	*1500 ID (mm) x 2200 TT (mm)	*0.7 / -	*100	*CS (Shell) / CS (Internals)
UREA DISSOLVING VESSEL	1	*Horizontal	*6000 ID (mm) x 3000 TT (mm)	*150 / -50 mmWC(g)	*105	*304 (Shell) / 304 (Internals)
START-UP BIN	1	*-	*(TBC)	*0.6 / -	*85	*304 (Casing) / - (Internals)
COARSE PRODUCT BIN	2	*-	*(TBC)	*7 / -	*85	*304 (Casing) / - (Internals)



	HEAD TANK	1	*cylinder	*1500 ID (mm) x 2200 TT (mm)	*0.7 / -	*100	*CS (Shell) / CS (Internals)
	UREA DISSOLVING VESSEL	1	*Horizontal	*6000 ID (mm) x 3000 TT (mm)	*150 / -50 mmWC(g)	*105	*304 (Shell) / 304 (Internals)
	PLANT AIR RECEIVER	1	*Vertical	*1920 ID (mm) x 5000 TT (mm)	*1.13	*70	*SA 516 Gr.70 (Shell) / SA 516 Gr.70 (Internals)
	CPI SKIMMED OIL DRUM	1	*cylinder	*2,000 x 2,000 x 2,500	*Full liquid / -	*70	*CS
	INSTRUMENT AIR RECEIVER	TBD	*Vertical	*3430 ID (mm) x 12000 TT (mm)	*0.981	*70	*SA 516 Gr.70 (Shell) / SA 516 Gr.70 (Internals)
	Protective coating and insulation are included in vendor scope.						
Contact:	Industry Capability Network of Western Australia – www.icnwa.org.au/ContactUs.asp						
Project URL:							
Close Date:	18 March 2019						