

<b>PROJECT OVERVIEW</b>	<p>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.</p>																																															
<b>PACKAGE TITLE:</b>	SHELL AND TUBE HEAT EXCHANGERS (HP)																																															
<b>PACKAGE NO:</b>	P5301																																															
<b>SCOPE:</b>	<p>The High Pressure Shell and Tube Heat Exchanger package will include:</p> <table border="1"> <thead> <tr> <th>Equipment Name.</th> <th>Qty.</th> <th>Capacity</th> <th>Design Pressure (Mpag)</th> <th>Design Temperature (deg C)</th> <th>MOC</th> </tr> </thead> <tbody> <tr> <td>BFW PREHEATER NO. 1</td> <td>1</td> <td></td> <td></td> <td></td> <td>*1.25 Cr 0.5 Mo with 1.6mm CA (Shell) / 1.25 Cr 0.5 Mo (Tubes)</td> </tr> <tr> <td>BFW PREHEATER NO. 2</td> <td>2</td> <td></td> <td></td> <td></td> <td>*1.25 Cr 0.5 Mo/cladded with SS304L (Shell) / SS304L (Tubes)</td> </tr> <tr> <td>LOOP BFW PREHEATER</td> <td>2</td> <td>*65416.67 kW</td> <td>*17.2 (Shell)21.8 (Tubes)</td> <td>*340 (Shell)370 (Tube)</td> <td>*CS (Shell) / 2.25 Cr 1 Mo (Tubes)</td> </tr> <tr> <td>HOT HEAT EXCHANGER</td> <td>1</td> <td>*56758.33 kW</td> <td>*21.8 (Shell)21.8 (Tubes)</td> <td>*240 (Shell)240 (Tube)</td> <td>*1.25 Cr 0.5 Mo (Shell) / 1.25 Cr 0.5 Mo (Tubes)</td> </tr> <tr> <td>WATER COOLER</td> <td>1</td> <td>*36186.11 kW</td> <td>*21.8 (Shell)0.75 (Tubes)</td> <td>*90 (Shell)70 (Tube)</td> <td>*CS (Shell) / SS2304(duplex) (Tubes)</td> </tr> <tr> <td>1ST COLD EXCHANGER</td> <td>1</td> <td>*12213.89 kW</td> <td>*21.8 (Shell)21.8 (Tubes)</td> <td>*70 (Shell)70 (Tube)</td> <td>*CS (Shell) / CS (Tubes)</td> </tr> </tbody> </table>						Equipment Name.	Qty.	Capacity	Design Pressure (Mpag)	Design Temperature (deg C)	MOC	BFW PREHEATER NO. 1	1				*1.25 Cr 0.5 Mo with 1.6mm CA (Shell) / 1.25 Cr 0.5 Mo (Tubes)	BFW PREHEATER NO. 2	2				*1.25 Cr 0.5 Mo/cladded with SS304L (Shell) / SS304L (Tubes)	LOOP BFW PREHEATER	2	*65416.67 kW	*17.2 (Shell)21.8 (Tubes)	*340 (Shell)370 (Tube)	*CS (Shell) / 2.25 Cr 1 Mo (Tubes)	HOT HEAT EXCHANGER	1	*56758.33 kW	*21.8 (Shell)21.8 (Tubes)	*240 (Shell)240 (Tube)	*1.25 Cr 0.5 Mo (Shell) / 1.25 Cr 0.5 Mo (Tubes)	WATER COOLER	1	*36186.11 kW	*21.8 (Shell)0.75 (Tubes)	*90 (Shell)70 (Tube)	*CS (Shell) / SS2304(duplex) (Tubes)	1ST COLD EXCHANGER	1	*12213.89 kW	*21.8 (Shell)21.8 (Tubes)	*70 (Shell)70 (Tube)	*CS (Shell) / CS (Tubes)
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## PROJECT DESTINY

	1ST AMMONIA CHILLER	1	*12261.11 kW	*2.5 (Shell)21.8 (Tubes)	*70 (Shell)70 (Tube)	*CS (Shell) / CS (Tubes)
	2ND COLD EXCHANGER	1	*4383.33 kW	*21.8 (Shell)21.8 (Tubes)	*70 (Shell)70 (Tube)	*CS (Shell) / CS (Tubes)
	2ND AMMONIA CHILLER	1	*9372.22 kW	*2.5 (Shell)21.8 (Tubes)	*70 (Shell)70 (Tube)	*CS (Shell) / CS (Tubes)
	PRODUCT COOLER	2	*3000 kW	*3 (Shell)0.65 (Tubes)	*95 (Shell)65 (Tube)	*Wetted parts : 304 (Shell) / CS (Tubes)
	CIRCULATION WATER COOLER FOR PRODUCT COOLER	1	*3097 kW	*0.7 4 (Hot)/(TBC) (Cold)	*100 (Hot) / (TBC) (Cold)	*CS (Hot) / CS (Cold)
	CIRCULATION WATER HEATER FOR PRODUCT COOLER	1				
	CIRCULATION WATER PUMP FOR PRODUCT COOLER	1+1			*28	*CS
	PRODUCT COOLER	2	*3000 kW	*3 (Shell)0.65 (Tubes)	*95 (Shell)65 (Tube)	*Wetted parts : 304 (Shell) / CS (Tubes)
	CIRCULATION WATER COOLER FOR PRODUCT COOLER	1	*3097 kW	*0.7 4 (Hot)/(TBC) (Cold)	*100 (Hot) / (TBC) (Cold)	*CS (Hot) / CS (Cold)
	CIRCULATION WATER HEATER FOR PRODUCT COOLER	1				
	CIRCULATION WATER PUMP FOR PRODUCT COOLER	1+1			*28	*CS
	Exchangers to be designed in accordance with TEMA Class R. Protective coating and insulation are included in vendor scope.					
<b>Contact:</b>	Industry Capability Network of Western Australia – <a href="http://www.icnwa.org.au/ContactUs.asp">www.icnwa.org.au/ContactUs.asp</a>					
<b>Project URL:</b>						
<b>Close Date:</b>	19 March 2019					