

EXPRESSION OF INTEREST (EOI)

Project	CERES
Company / Client	Perdaman Chemicals and Fertilisers Pty Ltd
Package Material Requisition Number	0000-RA-E-20060
Package Title	HP SHELL AND TUBE HEAT EXCHANGERS
1. SUBMISSION PROCEDURE	
EOI Instructions	<p>Supplier(s) are invited to express interest by registering on ICN Gateway where competency and previous positive experiences of similar supply of goods / services can be demonstrated.</p> <p>When submitting interest registrants will be asked to complete an expression of interest document. The registrant's response will form their Expression of Interest (EOI) for material and/or services.</p> <p>Suppliers will only be considered for Prequalification should they satisfy stated criteria, including but not limited to Health, Safety & Environmental Management, Quality management, financial standing, relevant experience and availability.</p>
EOI Closing Date	12/04/2023
Returnable Schedules	Where the EOI calls for any Returnable Schedules, please ensure all schedules are submitted.
Contact	<p>All initial enquiries should be made through the Industry Capability Network Western Australia (ICNWA).</p> <p>Andie Pfaff Andie.Pfaff@icnwa.org.au +61 (08) 9365 7422</p>
URL	<p>For more information regarding the Perdaman, refer</p> <ul style="list-style-type: none"> • https://www.perdamanindustries.com.au/scjv/
2. INDICATIVE SCOPE OF WORK	
Package Description	<p>Overview</p> <p>Saipem Australia Pty Ltd and Clough Projects Australia Pty Ltd Joint Venture (herein referred to as the "CONTRACTOR") has reached an agreement with Perdaman Chemicals and Fertilisers Pty Ltd (herein referred to as the "OWNER") for the Engineering, Procurement, Construction and Commissioning of the PROJECT CERES located in Burrup Strategic Industrial Area, Burrup Peninsula, Western Australia.</p> <p>Perdaman Chemicals and Fertilisers Pty Ltd (OWNER) is focused on the development of Perdaman - Project CERES which shall be the world's largest gas stream ammonia-urea plant with a production capacity of 2.14 MMTPA granular urea.</p>

	<p>General Scope of Supply / Services</p> <p>Design, engineering, supply of materials, fabrication and assembly, shop tests and inspections, painting and marking, packing, transportation, etc., of HP SHELL AND TUBE HEAT EXCHANGERS as listed in Annexure 1.</p> <p>Further inclusions consist of provision of management, design, calculation, procurement, fabrication, testing and certification to satisfy the scope of supply.</p> <p>The following must be provided:</p> <ul style="list-style-type: none"> • Technical deviations list • Special tools list • Schedule of rates • Spares list • Quality assurance <p>Responsibilities will include <i>inter alia</i>:</p> <ul style="list-style-type: none"> • Project management, reporting, attending meetings, participation in risk assessment workshops • Comply with site mobilisation and site requirements • Delivering work in a safe manner and to the required standards • Provide all equipment and materials for the Scope of Work
Standards	Compliance with National, International and Industry Standards, Australian and WA Regulatory requirements.
Key Dates	Final Notice to Proceed planned during 2023
Point of Delivery	Partial at Module Fabrication Yard (Outside Australia) & Partial at Project Site Burrup Strategic Industrial Area (Western Australia)
3. RETURNABLE DOCUMENTS	
List of Returnable Schedules	List of experience on similar equipment supply projects
4. DISCLAIMER	
This Expression of Interest to gain an insight into the capabilities of potential suppliers and/or service providers and not a Tender Invitation or offer - the schedule and content of this work is subject to change pending project demand and timelines.	

Annexure 1

Annexure 1																						
EQUIPMENT INFORMATION			Design Condition / Design condition for HE shell side		Design condition for HE tube side				EQUIPMENT DIMENSIONS					HEAT EXCHANGER DATA				MATERIAL				
SL NO	PROJECT MAIN ITEM TAG	EQUIPMENT DESCRIPTION	Pressure	temperature	Pressure	temperature	Special Service_SHELL SIDE	Special Service_TUBE SIDE	ID (DIA)	TL - TL (T/L LENGTH / HEIGHT)	TUBE LENGTH (EFF)	SHELL THK.	HEAD THK. / CHANNEL THK	Tube OD	Tube Thk	No of Tubes/SHELL	BAYAS / UNIT SHELL / UNIT	SHELL	Channel / Head	Tubes	Tubesheet	EPC STAGE ESTIMATED ASSEMBLY UNIT WEIGHT
			(Mpa(g))	(°C)	(Mpa(g))	(°C)			(mm)	(mm)	(mm)	(mm)	(mm)									Kg
1	1200-E-212	BFW Preheater No. 1	4,1	380	19	340	Hydrogen	-	1690	7020	5460	26	68/139	19,05	2,11	850	1	SA 387 Gr. 11 CL.2	SA 516 Gr. 70	SA 213 T11 (SMLS)	SA 336 Gr. F11 CL.3 + W.O	41800
2	1200-E-213-1/2	BFW Preheater No. 2	4,1	360	19 (Hold)	300	Hydrogen	-	1850	7250	5580	27+3	72/146	19,05	2,11	1038	2	SA 387 Gr. 11 CL.2 + SS W.O.	SA 516 Gr. 70	SA 213 TP 304L	SA 336 Gr. F11 CL.3 + W.O	101300
3	2500-E-506	1st Ammonia chiller	2,5	70	20	70	Ammonia	Hydrogen	1920/3950	10525	5600	45/38	77	19,05	2,11	2259 'U'	1	SA 516 Gr. 70	SA 516 Gr. 70	SA 210 Gr.A1	SA 266 Gr.2	96800
4	2500-E-507	2nd Cold Exchanger	20	70	20	70	Hydrogen	Hydrogen	1070	3776	3700	87	42	19,05	1,65	1115	1	SA 516 Gr. 70	SA 516 Gr. 70	SA 210 Gr. A1	SA 266 Gr.2	19100
5	2500-E-508	2nd Ammonia chiller	2,5	70	20	70	Ammonia	Hydrogen	1460/2300	6520	3600	35/23	59	19,05	2,11	1237'U'	1	SA 516 Gr. 70	SA 516 Gr. 70	SA 210 Gr. A1	SA 266 Gr. 2	32850
6	2500-E-503	Hot Exchanger	20	230	20	230	Hydrogen	Hydrogen	1670	8520	8160	135	57	12,7	1,65	4681	1	SA 516 Gr. 70	SA 516 Gr. 70	SA 210 Gr. A1	SA 266 Gr. 2	87.650
7	2500-E-504	Water Cooler	20,0	140	0,8	80	Hydrogen	-	2130	14025	8395	172	11	19,05	2,77	4343	1	SA 516 Gr. 70	SA 516 Gr. 70	SA 210 Gr. A1	SA 266 Gr. 2	158100
8	2500-E-505	1st cold exchanger	20,0	70	20	70	Hydrogen	Hydrogen	1200	7040	6910	98	46	19,05	1,65	1475	1	SA 516 Gr. 70	SA 516 Gr. 70	SA 210 Gr. A1	SA 266 Gr. 2	39300
9	2500-E-502-1/2/3	Loop BFW Preheater	20,0	380	19	340	Hydrogen	-	1440	8050	6900	118	58/118	19,05	3,4	745 'U'	3	SA 387 Gr. 22 CL.2	SA 516 Gr. 70	SA 213 Gr. T22	SA 336 Gr. F22 CL. 3 + ALLOY 625 W.O.	215100
10	2610-E-107	Ammonia Preheater	1,0	165	30	125	Ammonia	Ammonia	900	-	5000	-	-	19,05	2,413	435 'U'	1	SA 240 316L	SA 965 Gr F316L	SA 213 TP 316L	SA 965 Gr F316L	21400