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COAL GASIFICATION, AMMONIA AND UREA TECHNOLOGIES SELECTED FOR COLLIE UREA PROJECT

Perdaman Chemicals and Fertilisers (Perdaman) has selected its coal gasification, ammonia and urea melt and granulation technology providers for the A\$3.5 billion Collie Urea Project in Western Australia.

The state of the art technologies will be sourced from three international companies. **Oil and gas major Shell** will provide the plant's core coal gasification and gas treatment technology, with Danish company **Haldor Topsoe A/S** providing the ammonia synthesis technology, and Netherlands company **Stamicarbon BV** providing its Urea 2000 plus™ melt technology and fluid bed granulation technology.

The selection of the technology providers comes four weeks after the company signed a binding Heads of Agreement with Korea's Samsung Engineering and Indonesia's Inti Karya Persada Teknik (IKPT) for the EPC (Engineering, Procurement and Construction) work on the plant.

Each of the technology providers is a world leader in its field and they will all work closely with the EPC contractors to complete the detailed engineering design work for the 2 million tonne per annum plant.

The Collie Urea Project will transform sub-bituminous coal into urea, a widely used form of fertiliser, using state of the art emissions coal gasification technology. The plant will generate in excess of A\$850 million per annum in export earnings for Western Australia.

Perdaman's Chairman and Managing Director Vikas Rambal said that with the signing of the licence agreement the key components for the development of the Collie Urea Project were now in place.

"A site has been allocated in the Shotts Industrial Estate, the State Government is supportive of the project, our approval processes are underway and we now have our contractors and core technology in place," he said.

"Our technology providers are all leading specialists in their fields and will be contributing valuable expertise to this project in readiness for the scheduled start of operations in 2013," he said.

"Now we can turn our attention to the local components of this project as the bulk of the work will be done on site in Collie and our policy will be to involve as many Western Australian companies as possible."

Shell Clean Coal Energy Executive Vice President Peter de Wit said Shell's proven coal gasification technology, with 27 licences sold to date, can help Perdaman to achieve high plant reliability, best in class thermal efficiency and a good environmental performance.

"Shell is committed to developing its coal gasification and related technologies, and it will also support Perdaman with the provision of operational services before, during and after plant start up to enable smooth plant operations.



Dr Haldor Topsøe said his company was very committed to making the project a success. “Haldor Topsoe is pleased that it can contribute by supplying the ammonia synthesis technology which will have a single-line capacity of more than 3,500 tonne per day of ammonia.”

Samsung Engineering Chairman and Chief Executive Yeon-Joo Jung said the EPC team looked forward to a close and collaborative working relationship with all three providers to design, develop and deliver a world-class urea plant.

“We now have a comprehensive team whose skills and experience cover all aspects of this project and will allow us to complete the urea plant in the proposed timeframe and to the high standards required by Perdaman Chemicals and Fertilisers,” said Yeon-Joo Jung.

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Background – Perdaman Industries

Perdaman Industries is a Western Australian based multinational group with a current focus on urea production for local and international use. Perdaman Industries and its subsidiary Perdaman Chemicals and Fertilisers (formally North West Chemicals and Fertilisers) was formed in 2006. Founding Chairman Vikas Rambal and his fellow Directors all have extensive major project experience, most recently having played central roles in the development and construction of the A\$700 million Liquid Ammonia Fertiliser plant located on the Burrup Peninsula in the North West of Australia.

For further information please visit www.perdaman.com