



TIWEST KWINANA PIGMENT PLANT EXPANSION PROJECT

Project Location:	Kwinana, Western Australia
Project Manager:	Proteus Engineers
Project Owner:	Tronox WA Pty Ltd Exarro Australia Sands Pty Ltd
Constructor:	Proteus Engineers
Construction Period:	18 months
Project Value:	\$100 million
Project Status:	Approved 1 st Quarter 2008

The Tiwest Joint Venture is the world's largest integrated titanium minerals production and manufacturing company. Established in 1988, Tiwest operates in Western Australia. Its facilities include the Cooljarloo mineral sands mine, the Chandala dry mill and synthetic rutile plant and the Kwinana titanium dioxide pigment plant. Tiwest's success has been built on the development of high quality mineral reserves and the application of sophisticated process technology.

Operating at six sites in Western Australia, the company has established one of the most efficient operations in the industry and makes an important contribution to Western Australian export earnings, as well as generating more than 800 full time and contract jobs.

Tiwest's Kwinana operations complete the remarkable transformation of dull black ilmenite sand, mined at its Cooljarloo mine and further processed at its Chandala dry mill and synthetic rutile plants, into pure white titanium dioxide pigment.

The Western Australian operations of Tiwest are a major contributor to the community, earning more than \$A400 million in annual exports and contributing \$A6.6 million in mining royalties to the State Government. The Kwinana Pigment Plant Expansion Project will inject additional economic benefit for the local community during both the construction and operations phase.

Expansion Project Scope

The Expansion Project will increase pigment plant capacity from 110,000 tpa to around 150,000 tpa through the addition of a fourth production train and additional product drying and utilities infrastructure. With expectations for continued strong demand growth in the Asia-Pacific region, the expansion will allow Tiwest to capture future opportunities in this rapidly growing market.

Some of the main components of the expansion project are:

- Recycle Gas Blower
- TiCl₄ and Oxygen Heaters
- Aluminium Chloride Generator
- Fluidised Bed Reactor (Chlorinator)
- Sand Separator
- Shell and Tube Heat Exchangers
- De-Ionised Water Pumps
- Product Dryers



Prime Contractors and Australian Participation

Tiwest encourages Australian Industry participation in this project. Any company wishing to qualify for any component of this project should contact Tiwest to apply for pre-qualification. Companies who have not undertaken pre-qualification will not be considered for contract award. Companies already qualified with Tiwest need take no further action.

All enquiries regarding project opportunities and pre-qualification should be directed to:

Tiwest Joint Venture Tel: (08) 9411 1444 Fax: (08) 9411 1422

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