



Australian Jobs Act 2013

Reference code: C9Z5Y4-P5J2T0

Australian Industry Participation Plan Summary – Project Phase

Nominated project proponent:

QPM TECH PROJECT PTY LTD

Project details

Project name:

QPM TECH Project

Location:

Approximately 40 km south of Townsville near the town of Woodstock

Type:

Other productive facility

Other project type:

Battery materials refinery

Purpose:

Establish new facility

Capital expenditure:

☒ Confirm the total project estimated capital expenditure value will be \$500 million or more

Description:

The Project is underway and involves the design, construction and operation of a sustainable, high-purity battery materials refinery. It will be located within the Lansdown Eco-Industrial Precinct which is located approximately 40 km south of Townsville near the town of Woodstock. It is adjacent to the Flinders Highway, the North Queensland Gas Pipeline and the Townsville - Charters Towers rail line. The Project is being developed in response to the growing demand for materials used in renewable energy projects and in particular to meet the electric vehicle sector's future needs. It will process high-grade nickel-cobalt laterite ore, imported from New Caledonia, to produce pure battery materials, including nickel sulfate, cobalt sulfate and other related products such as magnesia, high-purity alumina (HPA) and hematite (iron). A total of 1.5 million wet metric tonnes (wmt) of nickel laterite ore will be delivered in 45,000-60,000 tonne bulk ore carriers from New Caledonia to the Townsville Port. It will be unloaded into B-double trucks for transport to two sheds located at East Port, around 2 km from the unloading berths. B-triple trucks will then be used to transport the ore from the sheds to the Project site where the ore will be stored in stockpiles prior to being treated in the refinery. The Project flowsheet for producing nickel, cobalt and a number of by-products from laterite ores refinery uses nitric acid as the leaching reagent. The process is essentially a closed-loop system whereby the nitric acid reagent is recirculated via regeneration steps. All outputs will exit the process as either saleable products, inert solid wastes, or water vapour. The site will be a zero-liquid discharge facility with the waste products being water vapour and an inert residue for which potential markets are being identified. The greenhouse gas emissions intensity of the battery

materials will be much lower than the global average.

Estimated completion date:

31/12/2028

Key goods and services

Indicative list of key goods and services to be acquired for the project:

List of key goods and services:

An Australian entity is an entity with an ABN or CAN.

Key goods and services	Opportunity for entities	Explanation for no opportunities for Australian entities
Ground Ore Feed Bin	Opportunities for Australian entities Opportunities for non-Australian entities	
Conveyors	Opportunities for Australian entities Opportunities for non-Australian entities	
Rotary Dryer (Ore Dryer)	Opportunities for Australian entities	
Dry Ball Mill Package	Opportunities for Australian entities	
Storage Bins	Opportunities for Australian entities Opportunities for non-Australian entities	
Leach Thickeners	Opportunities for Australian entities Opportunities for non-Australian entities	
Thickeners - Other	Opportunities for Australian entities Opportunities for non-Australian entities	
Pumps-Slurry	Opportunities for Australian entities Opportunities for non-Australian entities	
Pumps-Water	Opportunities for Australian entities Opportunities for non-Australian entities	
Agitators	Opportunities for Australian entities Opportunities for non-Australian entities	

Shell and Tube Heat Exchangers	Opportunities for Australian entities Opportunities for non-Australian entities	
Crane and Hoist	Opportunities for Australian entities Opportunities for non-Australian entities	
VPSA Oxygen Plant	Opportunities for Australian entities Opportunities for non-Australian entities	
Discharge Feeders	Opportunities for Australian entities Opportunities for non-Australian entities	
Horizontal Plate and Frame Pressure Filters	Opportunities for Australian entities Opportunities for non-Australian entities	
Bulk Bag Packaging System	Opportunities for Australian entities Opportunities for non-Australian entities	
Cooling Tower	Opportunities for Australian entities Opportunities for non-Australian entities	
Steam Boilers	Opportunities for Australian entities Opportunities for non-Australian entities	
Pressure Vessels	Opportunities for Australian entities Opportunities for non-Australian entities	
Water Treatment Plant (RO) AND Filtration Plant	Opportunities for Australian entities Opportunities for non-Australian entities	
Demineralised Water System Package	Opportunities for Australian entities Opportunities for non-Australian entities	
Compressed Air, including Air Receivers, Blowers	Opportunities for Australian entities Opportunities for non-Australian entities	
Crystallisers	Opportunities for Australian entities	

	Opportunities for non-Australian entities	
Solvent Extraction (SX) Mixer/Settlers	Opportunities for Australian entities Opportunities for non-Australian entities	
Centrifuges	Opportunities for Australian entities Opportunities for non-Australian entities	
Power Transformers	Opportunities for Australian entities Opportunities for non-Australian entities	
Design and Supply of Transportable Switchroom	Opportunities for Australian entities Opportunities for non-Australian entities	
Cables (HV, LV, Fibre)	Opportunities for Australian entities Opportunities for non-Australian entities	
Variable Speed Drives (MV and LV)	Opportunities for Australian entities Opportunities for non-Australian entities	
MV Switchgear	Opportunities for Australian entities Opportunities for non-Australian entities	
LV Motor Control Centers And Distribution Boards	Opportunities for Australian entities Opportunities for non-Australian entities	
Design and Supply of Light fixtures	Opportunities for Australian entities Opportunities for non-Australian entities	
Distribution Transformers	Opportunities for Australian entities Opportunities for non-Australian entities	
Instruments	Opportunities for Australian entities Opportunities for non-Australian entities	
Communication System Hardware	Opportunities for Australian entities Opportunities for non-Australian entities	

Control Valves	Opportunities for Australian entities Opportunities for non-Australian entities	
Control System Hardware	Opportunities for Australian entities Opportunities for non-Australian entities	
Analysers	Opportunities for Australian entities Opportunities for non-Australian entities	
Laboratory Equipment	Opportunities for Australian entities Opportunities for non-Australian entities	
CCTV	Opportunities for Australian entities Opportunities for non-Australian entities	
Plastic Piping (PE, PVC, PP)	Opportunities for Australian entities Opportunities for non-Australian entities	
Duplex St/Steel (LDX2101) Piping and Piping Components (c/w Viton rubber lining)	Opportunities for Australian entities Opportunities for non-Australian entities	
St/steel (304SS) Piping and Piping Components	Opportunities for Australian entities Opportunities for non-Australian entities	
Manual Valves	Opportunities for Australian entities Opportunities for non-Australian entities	
Supply of Steelwork	Opportunities for Australian entities Opportunities for non-Australian entities	
Civil Earthworks	Opportunities for Australian entities	
Concrete Works	Opportunities for Australian entities	
Structural, Mechanical, Piping, Electrical And Instrumentation Construction Works	Opportunities for Australian entities	
Control System Integration	Opportunities for Australian entities	
Design and Construction of Prefabricated Buildings	Opportunities for Australian entities	

Weak Acid Plant	Opportunities for non-Australian entities	QPM has performed various vendor engagement efforts over the past 12+ months for the Weak Acid Plant package and determined that no Australian entity, and only three suppliers globally, have the necessary expertise, experience and proven technology to deliver the package at this scale. This package requires conceptual development for the plant or equipment to be engineered to suit the project's requirements. QPM has developed a working relationship with a selected vendor of this package over this time, which is continuing as a joint development arrangement for the remainder of the project.
Filter Bank Package	Opportunities for Australian entities Opportunities for non-Australian entities	
Barren Evaporator Package	Opportunities for non-Australian entities	QPM has performed various vendor engagement efforts over the past 12+ months for the Barren Evaporator package and determined that no Australian entity, and only one supplier globally, has the necessary expertise, experience and proven technology to deliver the package at this scale. This package requires conceptual development for the plant or equipment to be engineered to suit the project's requirements. QPM has developed a working relationship with a selected vendor of this package over this time, which is continuing as a joint development arrangement for the remainder of the project.

Strong Acid Plant	Opportunities for non-Australian entities	QPM has performed various vendor engagement efforts over the past 12+ months for the Strong Acid Plant package and determined that no Australian entity, and only one supplier globally, has the necessary expertise, experience and proven technology to deliver the package at this scale. This package requires conceptual development for the plant or equipment to be engineered to suit the project's requirements. QPM has developed a working relationship with a selected vendor of this package over this time, which is continuing as a joint development arrangement for the remainder of the project.
EPCM Contractor	Opportunities for Australian entities	
DFS Lead Engineering Contractor	Opportunities for Australian entities	
Fabricated Tanks (Titanium/Stainless Steel)	Opportunities for Australian entities Opportunities for non-Australian entities	
Fluid Bed Roaster (Thermal Decomposition)	Opportunities for non-Australian entities	IP for required technology is owned by overseas entity
Design and Construction of Ore Storage Shed	Opportunities for Australian entities	
Design and Construction of Hematite Storage Shed	Opportunities for Australian entities	
Import Logistics and Storage	Opportunities for Australian entities	
Export Logistics and Storage (Hematite)	Opportunities for Australian entities	
Ore and Hematite Logistics	Opportunities for Australian entities	
Product Containers Logistics	Opportunities for Australian entities	
Survey Services	Opportunities for Australian entities	
Scaffolding Services	Opportunities for Australian entities	
Freight Forwarding/Logistics	Opportunities for Australian entities	

Quarry - Imported Fill	Opportunities for Australian entities	
Bus Service - Townsville - Site	Opportunities for Australian entities	
Early Site Establishment	Opportunities for Australian entities	
Leach Reactors	Opportunities for Australian entities Opportunities for non-Australian entities	
Dual Media Filters	Opportunities for Australian entities Opportunities for non-Australian entities	
Water Connection to Houghton Pipeline (owned by SunWater)	Opportunities for Australian entities	
Sewage Connection	Opportunities for Australian entities	
Gas Connection	Opportunities for Australian entities	
Access Roads, Rail Crossing	Opportunities for Australian entities	
HV Connection	Opportunities for Australian entities	

Project standards:

Australian, International

Supplier information and communication

Project Proponents Contact Person

Project proponent's contact person for supplier enquires.

Contact person's name:

Mikael Nilsson

Contact person's position:

Technical Manager

Phone number:

0435175913

Email address:

mnilsson@qpmenergy.com.au

Project Proponent Website

Project proponent website:

<https://techproject.com.au/>

Project Opportunities Website

List of websites:

Is this website active?	Is this website active?	Date the website is expected to go live:
https://techproject.com.au/	Yes	

Supplier engagement and communication actions:

Promote project opportunities through industry associations
Engage with vendor identification agencies on project opportunities and bid processes
Issue media releases or ASX announcements on project developments and opportunities
Directly contact suppliers with information on project opportunities and bid processes

Building Australian industry capability

Supplier capability development actions:

Recommend suppliers undertake training and/or accreditation
Provide market intelligence to suppliers

Global supply chain integration actions:

Provide references for high performing suppliers

Feedback:

Confirm you, and/or your procurement entities will offer and, if requested, provide feedback to unsuccessful Australian entities whose bids to supply key goods or services for the project have not been successful
Confirm feedback provided to unsuccessful bidders will include any recommendations of relevant training, skills, capability and capacity development
Confirm you will collect written evidence of feedback offered or provided to unsuccessful bidders

Australian Industry Participation Plan Summary – Operations Phase

Nominated facility operator:

QPM TECH PROJECT PTY LTD

Facility details

Facility name:

QPM TECH Project

Location:

Approximately 40 km south of Townsville near the town of Woodstock

Type:

Other productive facility

Other facility type:

Battery materials refinery

Key goods and services

Indicative list of key goods and services to be acquired for the new facility:

List of key goods and services:

An Australian entity is an entity with an ABN or CAN.

Key goods and services	Opportunity for entities	Explanation for no opportunities for Australian entities
Reagent supply	Opportunities for Australian entities Opportunities for non-Australian entities	
Site Security	Opportunities for Australian entities	
Bussing (between Townsville and Site)	Opportunities for Australian entities	

Facility standards:

Australian, International

Supplier information and communication

Facility operators Contact Person

Facility operators contact person for supplier enquires.

Contact person's name:

Mikael Nilsson

Contact person's position:

Technical Manager

Phone number:

0435175913

Email address:

mnilsson@qpmenergy.com.au

Facility Operator Website

Facility operator website:

<https://techproject.com.au/>

Facility Opportunities Website

List of websites:

Website address (URL only)	Is this website active?	Date the website is expected to go live:
https://techproject.com.au/	Yes	

Supplier engagement and communication actions:

Promote new facility opportunities through industry associations
 Conduct supplier information briefings on new facility opportunities and bid processes
 Issue media releases or ASX announcements on new facility developments and opportunities
 Directly contact suppliers with information on new facility opportunities and bid processes

Building Australian industry capability

Supplier capability development actions:

Recommend suppliers undertake training and/or accreditation
Provide market intelligence to suppliers

Global supply chain integration actions:

Provide references for high performing suppliers

Feedback:

Confirm feedback provided to unsuccessful bidders will include any recommendations of relevant training, skills, capability and capacity development
Confirm you will collect written evidence of feedback offered or provided to unsuccessful bidders
Confirm you, and/or your procurement entities will offer and, if requested, provide feedback to unsuccessful Australian entities whose bids to supply key goods or services for the new facility have not been successful