SECTION 1 – PROJECT INFORMATION & DECLARATION
(to be completed by the applicant)

1.1 – Project Information

REQUIREMENT	APPLICATION INFORMATION
Product information	
Product name: (Note: this name to be used in all documents and laboratory reports related to this product application)	
Ore formation: (Ore formation, mine name and location)	
Product category: (Raw material, physically modified, chemically treated, manufactured or waste)	
Processing method / description: (i.e. crushed, screened, flotation, heavy media separation)	
Description of product(s): (i.e. lump/fines/blend, concentrate, colour, odour**)**	
If blended, secondary product name and secondary ore body to be provided:	
Operational information	
Proposed commencement dates: (for product in load to the Port and first shipment)	
Proposed duration of the project:	
Proposed annual volume of export:	
Maximum daily volume of export:	
Maximum single shipment volume:	

REQUIREMENT	APPLICATION INFORMATION
Proposed duration and frequency of export:	
Anticipated gross loading rate:	
Nominated stevedore:	
Proposed haulage method: (conveyor/train/truck (inc. type/size))	
Method of storage at Port: (shed/container laydown/uncovered stockpile)	
Proposed outloading method: (shiploader/container tip/rotainer)	

1.2 – Declaration

I …… [Name and Position] of …… [Company] request the approval of Pilbara Ports Authority to export …….. [Product] as detailed within this application form (including documentation provided in support of this application) through the Port of Port Hedland.

On behalf of the Company I hereby declare that the information provided within and in support of this application are a true representation of the Product.

Signature: ……..

Name: ……..

Company: ……..

Date: ……..

SECTION 2 – REQUIRED DOCUMENTATION / ACTIONS
(to be completed by PPA)

The following documentation and/or actions may be required by PPA.

On receipt of Section 1 of this form completed by the Company, PPA will provide a complete list of documentation and/or actions required.

Detailed information on each of the below documents / actions is contained in **Attachment A "Product Approval Requirements"** to this form.

Approval to inload and ship the Product(s) will not be granted until all required documentation and/or action have been deemed acceptable to PPA.

DOCUMENT / ACTION	REQUIRED? (Y/N)
Health & Safety requirements	
Health and Safety Risk Assessment	
Material Safety Data Sheet	
Environment requirements	
Environmental Risk Assessment	
Dust Management Plan	
Sampling and analysis plan to support product characterisation	
Product specifications:	
- Particle Size Distribution	
- Dust Extinction Moisture (DEM)	
- Chemical and geochemical composition	
- Respirable Composition Analysis	
- Asbestos	
- Leachability	
- Radiation	
Sampling and analysis plan to support ongoing product moisture determination	

DOCUMENT / ACTION	REQUIRED? (Y/N)
Operational requirements	
Flow Property Report	
Angle of repose and stowage factor of product	
Bulk density of product	
Site Visit	
[Other]	
[Other]	
[Other]	

SECTION 3 – APPROVALS

(to be completed by PPA)

3.1 – Trial Shipments

If trial shipments are required for PPA to properly assess the Company's application, approval in respect of such trial shipments (only) is listed and specified below.

☐ **Trial shipments not required.**

☐ **Trial shipments required and approved under the following conditions:**

Approved trial time period:	
Maximum total throughput:	
Maximum number of shipments:	
Average throughput per shipment:	
Berth/s which may be used:	
Haulage method and restrictions:	
Stockpiling / storage conditions:	
Designated stockpiling / storage area:	
Other trial shipment conditions:	

Note: In addition to the above conditions, the Company must at all times adhere to PPA's Vessel Movement Protocols as published on PPA's website.

Trial Shipments Approved By:

PPA Business & Trade Manager:

Name: Date:

PPA Environment & Heritage Manager:

Name: Date:

PPA Maintenance Manager:

Name: Date:

PPA Health & Safety Manager:

Name: Date:

PPA Landside Operations Manager:

Name: Date:

3.2 – Final Approval / Denial of Application

PPA hereby:

☐ **Approves**

☐ **Denies**

the Company's application to export the Product(s) detailed in Section 1 of this application form (including any documentation submitted in support of the application). If approved, this approval is subject to, the Conditions of Approval listed in part 3.3 of this application form and any separate commercial agreements between PPA and the Company.

New Product Application Approval / Denial Endorsed By:

PPA Business & Trade Manager:

Name: Date:

PPA Environment & Heritage Manager:

Name: Date:

PPA Maintenance Manager:

Name: Date:

PPA Health & Safety Manager:

Name: Date:

PPA Landside Operations Manager:

Name: Date:

New Product Application Approved / Denied By:

PPA General Manager Operations:

Name: **Date:**

3.3 – Conditions of Approval

The approval given in part 3.2 of this application form is subject to the following conditions:

ATTACHMENT A – PRODUCT(S) APPROVAL REQUIREMENTS

DOCUMENT / ACTION	DETAILS OF REQUIREMENT
Health & Safety	
Health and Safety Risk Assessment	Risk assessment must identify/include: • Health and environmental risks associated with chemical makeup of the product(s). Environmental risks include risks to the environment, public health and amenity. • Sources of emissions (for example, product(s) transfer points, kiln stack, baghouses or discharge pipelines) including fugitive emissions (for example, noise, dust or odour). • Types of emissions (physical, chemical, or biological). • Volumes, concentrations and durations of emissions. • Proposed controls for mitigation of all identified risks.
Safety Data Sheet	• The Safety Data Sheet (SDS) must meet the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]. • Separate SDS for each product(s) to be shipped is required (e.g. coarse, fines, blend).
Environment	
Environmental Risk Assessment	The Environmental Risk Assessment should address all risks to public health, amenity and ecosystems associated with the proposed transport, storage, handling and export of the product(s), Examples of environmental risks that may be relevant include: • Air quality (including dust and odour); • Noise; • Contamination pathways (groundwater, stormwater, marine); • Storage and handling of hazardous substances, chemicals, dangerous goods; • Housekeeping and waste management. ***Note:*** *The Environmental Risk Assessment may be presented in the same document as the Health & Safety Risk Assessment, provided all environmental risks are clearly identified and addressed.*

DOCUMENT / ACTION	DETAILS OF REQUIREMENT

Dust Management Plan	The Dust Management Plan (DMP) should be a practical and site-specific plan which details how the proponent intends to manage the risk of dust emissions from handling of the product. The DMP should be informed by / reflect the outcomes of the Environmental Risk Assessment.
	The Dust Management Plan should include (but is not limited to):
	• Product conditioning processes prior to product arrival at PPA site to ensure that the product arrives at PPA site with a moisture content at or above the Dust Extinction Moisture (DEM),
	• Ongoing product sampling and moisture content testing to confirm above
	• Dust control measures associated with
	  ○ product transport (e.g. tarps or lids on trailers, container hygiene),
	  ○ inload and storage (e.g. dust suppression sprays, stockpile management, visual dust monitoring by operators),
	  ○ export (e.g. dust suppression sprays, visual dust monitoring by operators)
	• routine product(s) moisture sampling to demonstrate meets or exceeds DEM,
	• process / procedure guiding ship-loading operations and (visible) dust monitoring by operators,
	• Contingency and response capability (e.g. actions to be taken if unacceptable dust emissions occur).
	As a minimum, the DMP must meet the requirements of PPA's Part V Environment Licence (L8937 or L4432), including operational controls, reporting and monitoring / measurement actions.
	Note the proponent will be responsible for ensuring the DMP remains current throughout the period that the product is handled at a PPA site. The proponent should audit the DMP periodically and update as required to ensure it reflects current operations, risks and dust management measures. It will also identify what measures will be in place or are actioned to manage any incidents and emergencies that may arise during normal operations.

Sampling and analysis plan to support product characterisation	The Sampling and Analysis Plan (SAP) should clearly document the sampling methodology (including location, frequency, equipment, etc), handling and storage and laboratory analysis used (or intended to be used) to characterise the product. The SAP is not required to be a standalone document, for example details of the SAP may be included in the DMP. The SAP should demonstrate that the product characteristics (required below) are generally representative of the bulk product proposed to be exported.
Product specifications	A representative sample of the product must be subject to each of the below analyses in order to adequately characterise the product. Standard requirements for all analyses: • Analyses should be undertaken by an independent and recognised laboratory, that holds NATA accreditation for the analysis to be performed (if NATA accreditation exists for the analysis to be performed),

DOCUMENT / ACTION	DETAILS OF REQUIREMENT
	• Sample types should be appropriately identified using the product name provided to PPA in the Bulk Product Application Form, • Results should be provided in a final pdf report which specifies the analytical method and is signed by a laboratory manager or equivalent.
Particle Size Distribution Report	Information on the Particle Size Distribution assists in assessing the risk of fugitive dust emissions from handling of the product, and overall characterisation of the product. Determination of Particle Size Distribution is a standard laboratory test. It must include determination of <10-micron (<10 µm) fraction. This fraction is typically determined by laboratories using a combination of laser diffraction (0.4 to 75µm component) and sieving (>75µm component).
Dust Extinction Moisture (DEM) Report	Dust Extinction Moisture (DEM) is the target moisture content (%w/w) for a product, that minimises dust emission potential. The DEM test is derived from application of AS4156.6 - 2000 (*Coal Preparation, Part 6: Determination of dust / moisture relationship for coal*). The DEM report must include: • Total sample weight provided to laboratory • As received or actual moisture content of sample provided to laboratory • Weight fraction greater than 6.3mm of sample provided to laboratory • Maximum moisture content of sample (i.e. before free draining occurs) • Minimum of 6 sub-samples tested at different moisture contents to determine DEM • Laboratory data sheet should be included as appendix (including sample pre-weight, bag/filter weight, bag/filter + dust post-weight, moisture content, dust number) • Description of specific details of any/all deviations from the Australian Standard.
Chemical and geochemical composition	Chemical composition, including elemental / trace analysis. This information should be used to inform the environmental risk assessment.
Respirable Composition Analysis	Laboratory analysis of the following respirable components of bulk products: • muscovite (proportion by weight of total product %) • respirable (PM_4) silica quartz (proportion by weight of total product %). Safe Work Australia (SWA) recommends the occupational exposure standard of 0.1 mg/m3 time weighted average for respirable silica in ambient air. When determining the standards for many other hazards in the Workplace Exposure Standards for Airborne Contaminants (2013), SWA provide a value based on the assumption that within the inhalable dust there is no asbestos and less than 1 per cent respirable

DOCUMENT / ACTION	DETAILS OF REQUIREMENT
	crystalline silica (PM10), as determined through a laboratory analysis of the product(s). Reference: Safe Work Australia (2013) Workplace Exposure Standards for Airborne Contaminants. Accessed online: https://www.safeworkaustralia.gov.au/system/files/documents/1705/workplace-exposure-standards-airborne-contaminants-v2.pdf
Asbestos	Laboratory analysis of the proportion (as %) of non-friable and fibrous asbestos The criteria / limit against which Asbestos is measured, is < or = 0.01% for non-friable and fibrous asbestos. This figure is based on the presence or absence of asbestiform fibres in bulk materials in accordance with AS 4964 – 2004, and is expected to result in the (Department of Health) asbestos air-quality limit of 0.01 fibres per millilitre (f/ml) being met at the nearest receptor. Reference: National Environment Protection (Assessment of Site Contamination) Measure 1999, Schedule B1; Australian Standard 4964 – 2004 Method for the qualitative identification of asbestos in bulk samples; and Department of Health (2009) Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia.
Product(s) Leachability Report	Concentration of metals in leach through Australian Standard Leaching Procedure (ASLP), using deionised water (first test) and acetic acid (second test). On the basis of test outcomes, further analysis may be required by PPA. The outcomes of this analysis will indicate what metals (or other elements) may leach from the product should the product be spilled to a stormwater drain or within the marine environment and should inform the environmental risk assessment.
Radiation Report	Concentration in bequerels per gram (Bq/g) of: • Uranium-238 • Thorium-232 • Rubidium-87 The criteria / limit against which radiation is measured is 10Bq/g. The Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) have set an exemption limit of 10Bq/g for Uranium-238 and Thorium-232 combined. The purpose of this is so that the transport of all bulk materials and large items that is “designed so that quantities of naturally occurring material that present a very low radiation hazard do not have to be transported as a radioactive material.” (ARPANSA, 2008) Reference: ARPANSA (2008) Safety Guide: Management of Naturally Occurring Radioactive Material (NORM). Radiation Protection Series No. 15. Accessed online at: https://www.arpansa.gov.au/sites/g/files/net3086/f/legacy/pubs/rps/rps15.pdf
Sampling and analysis plan to support ongoing determination of product(s) moisture	PPA will required ongoing evidence showing that product moisture content is at or above DEM throughout the duration of export through a PPA site. This must be supported by a sampling and analysis plan, which should document the methods used to collect the sample and undertake the moisture content determination. The sampling and analysis plan should include:

DOCUMENT / ACTION	DETAILS OF REQUIREMENT

	• **Sample locations** (e.g. side of stockpile ~1m high; top of truck; conveyor sample station)
	• **Frequency of sampling** (e.g. daily; each outgoing truck; each ship)
	• **Size and number of samples** (e.g. 1kg sample every Xm along the side of stockpile; 5 x 1 kg sample per truck, 1 kg sample per 500WMT loaded to ship)
	• **Sample handling** (i.e. Moisture determined on each individual sample, results averaged; samples combined to form representative sample – moisture determined on representative sample; samples mixed and secondary sample taken – moisture determined on secondary sample)
	• **Containment** (e.g. Plastic/calico bag with zip tie, Open bucket)
	• **Transportation** (i.e. Back of tray to onsite laboratory, Boxed and freighted to offsite laboratory)
	• **Moisture determination methods** (i.e. Oven drying and weighing, LFMMA)
	• **Standards / guidelines** applied, for example:
	  ○ AS 5621 – 2013 Iron Ores – Rapid moisture determination
	  ○ ISO 2596:2006 Iron ores – Determination of hygroscopic moisture in analytical samples
	  ○ ISO 3082:2009 Iron ores – Sampling and sample preparation procedures
	Personnel involved in sampling and analysis (i.e. In-house, contractor, laboratory)