



APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

**JINDAL MELMOTH IRON ORE PROJECT
KWAZULU-NATAL PROVINCE**

IMPORTANT NOTICE

Kindly note that:

1. As from 8 December 2014, this document serves as the application form, and incorporates the requisite documents that are to be submitted together with the application for the necessary environmental authorisations in terms of the said Acts.
2. This application form is applicable while the Mineral and Petroleum Resources Development Amendment Act of 2008 is in effect, as the form may require amendment should the Act be further amended.
3. Applicants are required to apply for the necessary water use licence and any other authorisations nor licences to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use licence has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

PLEASE STATE TYPE OF AUTHORISATIONS BEING APPLIED FOR.

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00	<input type="checkbox"/>
NEMA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMWA S&EIR application on its own	R10 000.00	<input type="checkbox"/>
NEMWA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	<input checked="" type="checkbox"/>
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	<input type="checkbox"/>

*Proof of Payment is included in Appendix 8

1. ~~CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT~~

2. DETAILS OF THE APPLICANT

Project applicant:	Jindal Iron Ore (Pty) Ltd		
Registration no (if any):	2010/013660/07		
Trading name (if any):			
Responsible Person, (e.g. Director, CEO, etc.):	Director		
Contact person:	Debratna Nag		
Physical address:	22, Kildoon Road Bryanston2021		
Postal address:	22 Kildoon Road Bryanston		
Postal code:	2021	Cell:	+27 82 470 5023
Telephone:	011 706 8420	Fax:	+27 11 706 8422
E-mail:	debratna.nag@jindalafrica.com		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Kate Hamilton		
Professional affiliation/registration:	International Association for Impact Assessment (South Africa) EAPASA (Registration in process)		
Contact person (if different from EAP):	Kate Hamilton		
Company:	SLR Consulting (Africa) (Pty) Ltd		
Physical address:	Suite 1 - Building D Monte Circle 178 Montecasino Boulevard Fourways 2191		
Postal address:	PO Box 1596 Cramerview		
Postal code:	2060	Cell:	072 850 0801
Telephone:	+27 11 467 0945	Fax:	011 467 0978
E-mail:	khamilton@slrconsulting.com		

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by the NEMA Regulations, prior to the commencement of the process.

The declaration of independence (included in Appendix 5) and the Curriculum Vitae (indicating the experience with environmental impact assessment and relevant application processes) of the EAP must also be attached as **Appendix 1**. Copies of the Curriculum Vitae are attached in Appendix 1.

4. PROJECT DESCRIPTION

Farm name:	South Block	North Block
	Remaining Extent, Portions 1, 2, 3, and 4 of the Farm Black Eyes 13385 Remaining Extent, Portions 1, 2, and 3 of the Farm Goedgeloof 6106 Remaining Extent of the Farm Kromdraai 6110 Portion 3, 4, 5, 6, 7, 8, 12, 13, 14, 15, and 16 of the Farm Wilderness 6107 Portion 0 of the Farm Vergelegen 6104 Goedertrow 89 No. 7806 Portion of Rem of Reserve No. 11 No. 15831	Portion 3 and 4 of the Farm Reserve No. 11 15831 Portion 0 of the Farm Ntembeni 16921
Application area (Ha)	20 170 ha	
Magisterial district:	King Cetshwayo District Municipality	
Distance and direction from nearest town	The proposed project area is located approximately 16 km south & southeast of the Melmoth, within the Mthonjaneni Local Municipality in the KwaZulu-Natal Province.	
21 digit Surveyor General Code for each farm portion	N0GU00000001692100003 N0GU00000001692100004 N0GU00000000611000000 N0GU00000001692100000 N0GU00000000610600001 N0GU00000000610600002 N0GU00000000610600003 N0GU00000001338500000 N0GU00000001338500001 N0GU00000001338500002 N0GU00000001338500003 N0GU00000001338500004 N0GU00000000610600000 N0GU00000000610700003 N0GU00000000610700004 N0GU00000000610700005 N0GU00000000610700006 N0GU00000000610700007 N0GU00000000610700008 N0GU00000000610700012 N0GU00000000610700013 N0GU00000000610700014 N0GU00000000610700015 N0GU00000000610700016 N0GU00000000610400000 N0GU00000001583100000 N0GU00000001583100003 N0GU00000001583100004 N0GU00000000610400000	
Locality map	The Regional and Local Setting maps are included in Appendix 2.	
Description of the overall activity.	The Melmoth Iron Ore Project (the Project) site is located 25 km southeast of Melmoth, within the Mthonjaneni Local Municipality in the KwaZulu-Natal Province. Jindal Iron	

<p>(Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)</p>	<p>Ore (Pty) Ltd (Jindal), is owned by Jindal Steel and Power (Mauritius) Limited (74%) and South African BEE partner Mr. Thabang Khomo (Pty) Ltd (26%). Jindal holds two Prospecting Rights over the project site. The prospecting rights are referred to as North Block (PR 10644) and South Block (PR 10652) and have a total combined area of 20 170 ha.</p> <p>The areas of interest contain banded iron formations (BIF) and were investigated by Premier Zululand Zinc in 1908 followed by Union Carbide Prospecting SA in 1969 and Iscor (Pty) Ltd in the 1980's. These early investigations did not result in project development because the magnetite content was too low to compete with the more attractive hematite iron mineralisation in the Northern Cape and the prevailing iron ore price could not support feasible mining of the magnetite BIF. The iron ore price started increasing in 2007 generating renewed interest in iron ore in the Melmoth district. In 2011 Sungu Sungu (Pty) Ltd, (later renamed to Jindal Iron Ore (Pty) Ltd.) was issued Prospecting Rights for the two concessions.</p> <p>In 2013 Jindal reinitiated the project, however, in the interim the iron ore price declined from a high of \$130 per tonne in January 2014 to a low of \$47 per tonne in December 2015. The decline in the iron ore and steel prices worldwide resulted in reduced funding from Jindal for the project and it was put on hold.</p> <p>In 2019 through to 2020, the iron ore price steadily recovered and the first quarter of 2021 averaged \$160 per tonne. The improved iron ore price has encouraged Jindal to increase the rate of development of the Melmoth Iron Ore Project.</p> <p>Jindal's intent with this Mining Right Application (MRA) is to consolidate the Prospecting Rights for the North and South blocks into a single Mining Right. However, development of the mine and mining infrastructure would be undertaken in a phased approach with mining currently only proposed to be undertaken in the south-eastern section of the South Block (Appendix 2 - Figure 1), where the iron ore resource has been defined through previous prospecting. Infrastructure would be developed to support this mining operation. The MRA and EIA will consider the entire extent of the MRA area, but with a specific focus on Phase 1 of the Melmoth Iron Ore Project as described in this section.</p> <p>Phase 1: Conceptual Design (Appendix 2 - Figure 1)</p> <p>An open cast pit mining operation is proposed to be developed in the south-eastern section of the South Block known as the South East Pit. Approximately 800 million tonnes of ore is expected to be mined from the pit over its lifetime (approximately 25 years). Waste rock will be stripped from the pit at a ratio of approximately 0.5 tonnes of waste rock per 1 tonne of ore. The waste rock will be disposed of on a Waste Rock Dump (WRD) proposed within the mining right area. Drilling and blasting techniques will be used to excavate the iron ore (proposed to be 32 million tonnes per annum (mtpa)) which will then be loaded onto trucks and transported to the Run-of-Mine (ROM) ore stockpile area where it will be stored and subsequently transferred to the processing plant for milling and magnetic separation. The processing plant will produce iron ore concentrate and a tailings slurry. The approximately 7 mtpa of iron ore concentrate will be transported 80 km to the Richards Bay Port by rail using the Enkwalini rail siding 4 km from the proposed mine.</p> <p>The concentrate will be exported as there are limited local markets. The tailings will be disposed of to a tailings storage facility (TSF) - part of a separate application. Associated infrastructure to support the mine will include access and haul roads, electrical transmission line and sub-stations, raw water abstraction and pipelines, stormwater management infrastructure, tailings pipelines, concentrate pipeline Include milling and beneficiation plant, analytical laboratory, rail loading facilities, offices, change house, workshops and perimeter fencing (amongst others).</p> <p>Some of the infrastructure required for the mine (e.g. the access road, pipelines and</p>
--	---

	<p>TSF) may be located outside of the mining right area. While the access road and water supply pipelines are part of this application to the DMRE, certain other infrastructure as discussed previously will be subject to separate application, assessment and approval processes, as required by the applicable legislation.</p>
--	---

5. ACTIVITIES TO BE AUTHORISED

(Please provide copies of Environmental Authorisations obtained for the same property as Appendix 3). **No other Environmental Authorisations have been issued for the same properties identified for the Mining Right Application.**

(For an application for authorisation please indicate more than one listed activity that, together, make up one development proposal. All the listed activities pertaining to this application must be included. Please note that any authorisation that may result from this application will only cover activities specifically applied for). Attach a proposed site plan, drawn to a scale acceptable to the competent Authority, showing the location of all the activities to be applied for in **Appendix 4**. **A site layout is included in Appendix 4.**

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
New water pipelines for water supply.	100 ha	X	National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 9: <i>The development of infrastructure exceeding 1 000 metres in length for the bulk transportation of water or storm water—</i> <i>(i) with an internal diameter of 0,36 metres or more; or</i> <i>(ii) with a peak throughput of 120 litres per second or more;</i> <i>excluding where -</i> <i>(a) such infrastructure is for bulk transportation of water or storm water or storm water drainage inside a road reserve or railway line reserve; or</i> <i>(b) where such development will occur within an urban area</i> RELEVANCE: The proposed project will require new water pipelines for water supply.	Not Applicable
New sewage, recycle water and process and potable water pipelines network servicing the mine, plant, laboratory, offices, workshop facilities. Certain pipes will be up to 10km length and 0.36m internal diameter	10 ha	X	National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 10: <i>The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes –</i> <i>(i) with an internal diameter of 0,36 metres or more; or</i> <i>(ii) with a peak throughput of 120 litres per second or more;</i> <i>excluding where –</i>	Not Applicable

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			<p>(a) such infrastructure is for bulk transportation of water or stormwater drainage inside a road reserve or railway line reserve; or</p> <p>(b) where such development will occur within an urban area.</p> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will require sewage, return water, and process water pipelines.</p>	
The construction and operation of a new substation (including transformer yard) and transmission lines with a capacity of up to 33 kV to provide electricity to infrastructure within the footprint of the mine, i.e., processing plant, offices, etc.	6,5 Ha	X	<p>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 11: <i>The development of facilities or infrastructure for the transmission and distribution of electricity -</i></p> <p>(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts; or</p> <p>(ii) inside urban areas or industrial complexes with a capacity of 275 kilovolts or more;</p> <p><i>excluding the development of bypass infrastructure for the transmission and distribution of electricity where such bypass infrastructure is -</i></p> <p>(a) temporarily required to allow for maintenance of existing infrastructure;</p> <p>(b) 2 kilometres or shorter in length;</p> <p>(c) within an existing transmission line servitude; and</p> <p>(d) will be removed within 18 months of the commencement of development.</p> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will require a new substation (including transformer yard) and transmission lines with a capacity of up to 33 kV, to connect to the existing 400kV ESKOM transmission lines within the project area.</p>	Not Applicable
Storage and handling of dangerous goods,	Approximately.	X	National Environmental Management Act (No. 107 of 1998)	Not Applicable

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
i.e., diesel, oil, and other lubricants, etc.	500 m ³ .		<p>(NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 14: <i>The development and related operation of facilities or infrastructure, for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic metres or more but not exceeding 500 cubic metres.</i></p> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will require the facilities or infrastructure for the storage and handling of diesel, oil and other lubricants required for the operations of the mine, and maintenance of mining equipment with a combined capacity of up to 500 m³.</p>	
Construction of site infrastructure	Within the proposed footprint of 1 500 ha		<p>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 19:</p> <p><i>The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse;</i> <i>but excluding where such infilling, depositing, dredging, excavation, removal or moving -</i> <i>(a) will occur behind a development setback;</i> <i>(b) is for maintenance purposes undertaken in accordance with a maintenance management plan;</i></p> <p><i>(c) falls within the ambit of activity 21 in this Notice, in which case that activity applies;</i> <i>(d) occurs within existing ports or harbours that will not increase the development footprint of the port or harbour; or</i> <i>(e) where such development is related to the development of a port or harbour, in which case activity</i></p>	Not Applicable

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			<p><i>26 in Listing Notice 2 of 2014 applies</i></p> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will likely include localised infilling of drainage lines to regulate stormwater drainage and provide level surface for site infrastructure.</p>	
Construction of on-site haul and access roads.	36 ha	X	<p>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (GNR 983), as amended, Activity 24: <i>The development of a road -</i></p> <ul style="list-style-type: none"> (i) <i>for which an environmental authorisation was obtained for the route determination in terms of activity 5 in Government Notice 387 of 2006 or activity 18 in Government Notice 545 of 2010; or</i> (ii) <i>with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres;</i> <p><i>but excluding a road -</i></p> <ul style="list-style-type: none"> (a) <i>which is identified and included in activity 27 in Listing Notice 2 of 2014;</i> (b) <i>where the entire road falls within an urban area; or</i> (c) <i>which is 1 kilometre or shorter.</i> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will require on-site haul and access roads.</p>	Not Applicable
Construction and operation of a Sewage and Water Treatment Plant.	Within plant footprint 100 ha	X	<p>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 25: <i>The development and related operation of facilities or infrastructure for the treatment of effluent, wastewater, or sewage with a daily throughput capacity of more than 2 000 cubic metres but less than 15 000 cubic metres.</i></p> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will require a</p>	Not Applicable

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			Sewage and Water Treatment Plant.	
Clearing of vegetation for the construction of onsite infrastructure and operation of the South-East Pit.	Total clearance of approximately 1 500 ha.	X	National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 30: <i>Any process or activity identified in terms of section 53(1) of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004).</i> RELEVANCE: The Jindal Melmoth Iron Ore Project falls mostly within an area considered to have very high ecological importance, due to the presence and potential occurrence of threatened and protected plant species.	Not Applicable
Widening of existing roads	36 ha	X	National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 56: <i>The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre –</i> <i>(i) where the existing reserve is wider than 13,5 meters; or</i> <i>(ii) where no reserves exists, where the existing road is wider than 8 metres, excluding where widening or lengthening occur inside urban areas.</i> RELEVANCE: The Jindal Melmoth Iron Ore Project will require the widening of existing roads.	Not Applicable
Potential expansion of railway lines, shunting yards, etc.	7.5Ha	X	National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 64: <i>The expansion of railway lines, stations, or shunting yards where there will be an increased development footprint, excluding –</i> <i>(i) railway lines, shunting yards and railway stations in industrial complexes or zones</i> <i>(ii) underground railway lines in mines; or</i> <i>(iii) additional railway lines within the railway line reserve.</i>	Not Applicable

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			RELEVANCE: The Jindal Melmoth Iron Ore Project may require the upgrade and expansion of the Nkwadini Siding.	
Storage and handling of dangerous goods, i.e., diesel, oil, and other lubricants, etc	10 ha	X	National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 4: <i>The development and related operation of facilities or infrastructure, for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.</i> RELEVANCE: The Jindal Melmoth Iron Ore Project will require the construction and operation of facilities or infrastructure for the storage and handling of diesel, oil and other lubricants required for the operations of the mine, and maintenance of mining equipment with combined capacity in excess of 500 m³.	X
Other permits or licenses required.	N/A	X	National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 6: <i>The development of facilities or infrastructure for any process or activity which requires a permit or licence or an amended permit or licence in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent, excluding -</i> <i>(i) activities which are identified and included in Listing Notice 1 of 2014;</i> <i>(ii) activities which are included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies;</i> <i>(iii) the development of facilities or infrastructure for the treatment of effluent, polluted water, wastewater or sewage</i>	

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			<p>where such facilities have a daily throughput capacity of 2 000 cubic metres or less; or</p> <p>(iv) where the development is directly related to aquaculture facilities or infrastructure where the wastewater discharge capacity will not exceed 50 cubic metres per day.</p> <p>RELEVANCE: A Water Use License Application will be required for the proposed project.</p>	
The clearance of indigenous vegetation for the placement of infrastructure.	Total clearance of approximately 1 500 ha.	X	<p>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 15:</p> <p><i>The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for -</i></p> <ul style="list-style-type: none"> (i) <i>the undertaking of a linear activity; or</i> (ii) <i>maintenance purposes undertaken in accordance with a maintenance management plan."</i> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will require the clearance of indigenous vegetation for the placement of infrastructure. The area to be cleared will be in excess of 20 ha.</p>	Not Applicable
Water storage of up to 100 000 m³ will be required which would require a wall of 5 m or higher.	Within plant footprint – 100 ha	X	<p>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 16:</p> <p><i>The development of a dam where the highest part of the dam wall, as measured from the outside toe of the wall to the highest part of the wall, is 5 metres or higher or where the highwater mark of the dam covers an area of 10 hectares or more.</i></p> <p>RELEVANCE:</p>	

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
The project requires a mining right	Total area of approximately 1 500 ha.	X	<p>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 17:</p> <p>Any activity including the operation of that activity which requires a mining right as contemplated in section 22 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including –</p> <p>(a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource; or</p> <p>(b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing; but excluding the secondary processing of a mineral resource, including the smelting, beneficiation, reduction, refining, calcining or gasification of the mineral resource in which case activity 6 in this Notice applies.</p> <p>RELEVANCE: The project requires a mining right for the extraction and processing of ore.</p>	
Extraction and processing of iron ore.	Total area of approximately 1 500 ha.	X	<p>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 19:</p> <p><i>The removal and disposal of minerals contemplated in terms of section 20 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including -</i></p> <p><i>(a) associated infrastructure, structures, and earthworks, directly related to prospecting of a mineral resource; or</i></p> <p><i>(b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening, or washing;</i></p> <p><i>but excluding the secondary processing of a mineral resource, including the smelting, beneficiation, reduction, refining, calcining or gasification of the mineral resource in which case activity 6 in this Notice applies.</i></p>	

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			RELEVANCE: The Jindal Melmoth Iron Ore Project will require the construction and operation of an open pit area, waste rock dump, and a processing plant.	
Construction of a reservoir in excess of 250 m³ within a CBA.	Up to 100 000 m³, 3 ha	X	National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 2: <i>The development of reservoirs, excluding dams, with a capacity of more than 250 cubic metres.</i> d. KwaZulu-Natal i. Trans-frontier protected areas managed under international conventions; ii. Community Conservation Areas; iii. Biodiversity Stewardship Programme Biodiversity Agreement areas; iv. World Heritage Sites; v. In an estuarine functional zone; vi. In a protected area identified in terms of NEMPAA, excluding conservancies; vii. Sites or areas identified in terms of an international convention; viii. Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans; ix. Core areas in biosphere reserves; x. Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority, or zoned for a conservation purpose; xi. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; xii. Outside urban areas:	Not Applicable

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			<p>(aa) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any terrestrial protected area identified in terms of NEMPAA or from the core area of a biosphere reserve; or</p> <p>(bb) Areas seawards of the development setback line or within 1 kilometre from the high-water mark of the sea if no such development setback line is determined; or</p> <p>xiii. Inside urban areas:</p> <p>(aa) Areas zoned for use as public open space;</p> <p>(bb) Areas seawards of the development setback line or within 100 metres from the high-water mark of the sea if no such development setback line is determined; or</p> <p>(cc) Within urban protected areas.</p> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will require the construction and operation of a reservoir in excess of 250 m³ in capacity within a critical biodiversity area.</p>	
The construction of haul and access roads	Within total area of approximately 1 500 ha.		National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 4: The development of a road wider than 4 metres with a reserve less than 13,5 metres. KwaZulu-Natal i. In an estuarine functional zone; ii. Trans- frontier protected areas managed under international conventions; iii. Community Conservation Areas; iv. Biodiversity Stewardship Programme Biodiversity Agreement areas; v. World Heritage Sites; vi. A protected area identified in terms of NEMPAA;	

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			<p>vii. Sites or areas identified in terms of an international convention;</p> <p>viii. Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p> <p>ix. Core areas in biosphere reserves;</p> <p>x. Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority or zoned for a conservation purpose;</p> <p>xi. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;</p> <p>xii. Outside urban areas:</p> <p>(aa) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any terrestrial protected area identified in terms of NEMPAA or from the core areas of a biosphere reserve; or</p> <p>(bb) Areas seawards of the development setback line or within 1 kilometre from the high-water mark of the sea if no such development setback line is determined; or</p> <p>xiii. Inside urban areas:</p> <p>(aa) Areas zoned for use as public open space;</p> <p>(bb) Seawards of the development setback line or within 100 metres from the high-water mark of the sea if no such development setback line is determined; or</p> <p>(cc) Within urban protected areas.</p> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will require on-site haul and access roads.</p>	
The clearance of indigenous vegetation for the placement of infrastructure.	Within total area of approximately		National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 12: The clearance of an area of 300 square metres or more of	Not Applicable

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
	1 500 ha.		indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan. <i>d. KwaZulu-Natal</i> <i>i. Trans-frontier protected areas managed under international conventions;</i> <i>ii. Community Conservation Areas;</i> <i>iii. Biodiversity Stewardship Programme Biodiversity Agreement areas;</i> <i>iv. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;</i> <i>v. Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</i> <i>vi. Within the littoral active zone or 100 metres inland from high water mark of the sea or an estuarine functional zone, whichever distance is the greater, excluding where such removal will occur behind the development setback line on erven in urban areas;</i> <i>vii. On land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning;</i> <i>viii. A protected area identified in terms of NEMPAA, excluding conservancies;</i> <i>ix. World Heritage Sites;</i> <i>x. Sites or areas identified in terms of an international convention;</i> <i>xi. Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority</i>	

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			<p><i>or zoned for a conservation purpose;</i></p> <p><i>xii. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority; or</i></p> <p><i>xiii. In an estuarine functional zone."</i></p> <p>RELEVANCE: The Jindal Melmoth Iron Ore Project will require the clearance of indigenous vegetation for the placement of infrastructure. The area to be cleared will be in excess of 300m²</p>	
<p>Some infrastructure developed for the Jindal MIOP would be within 32 m of a watercourse.</p>	<p>Up to 100 000 m³, 3 ha</p>	<p>X</p>	<p>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 14:</p> <p><i>The development of -</i></p> <p><i>(i) dams or weirs, where the dam or weir, including infrastructure and water surface area exceeds 10 square metres; or</i></p> <p><i>(ii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs -</i></p> <p><i>(a) within a watercourse;</i></p> <p><i>(b) in front of a development setback; or</i></p> <p><i>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</i></p> <p><i>excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour."</i></p> <p><i>"d. KwaZulu-Natal</i></p> <p><i>i. In an estuarine functional zone;</i></p> <p><i>ii. Community Conservation Areas;</i></p> <p><i>iii. Biodiversity Stewardship Programme Biodiversity Agreement areas;</i></p> <p><i>iv. A protected area identified in terms of NEMPAA, excluding conservancies;</i></p> <p><i>v. World Heritage Sites;</i></p> <p><i>vi. Sites or areas identified in terms of an international</i></p>	

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			<p><i>convention;</i></p> <p><i>vii. Critical biodiversity areas or ecological support areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</i></p> <p><i>viii. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;</i></p> <p><i>ix. Core areas in biosphere reserves;</i></p> <p><i>x. Outside urban areas:</i></p> <p><i>(aa) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any terrestrial protected area identified in terms of NEMPAA or from the core area of a biosphere reserve; or</i></p> <p><i>(bb) Areas seawards of the development setback line or within 1 kilometre from the high-water mark of the sea if no such development setback line is determined; or</i></p> <p><i>xi. Inside urban areas:</i></p> <p><i>(aa) Areas zoned for use as public open space;</i></p> <p><i>(bb) Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority, zoned for a conservation purpose; or</i></p> <p><i>(cc) Areas seawards of the development setback line or within 100 metres from the high-water mark of the sea if no such development setback line is determined.</i></p> <p>RELEVANCE: Some infrastructure (plant, pit, WRDS, roads etc) developed for the Jindal MIOP would be within 32 m of a watercourse.</p>	

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
Widening of roads		X	National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 18: <i>The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</i> <i>d. KwaZulu-Natal</i> <i>i. Trans-frontier protected areas managed under international conventions;</i> <i>ii. Community Conservation Areas;</i> <i>iii. Biodiversity Stewardship Programme Biodiversity Agreement areas;</i> <i>iv. World Heritage Sites;</i> <i>v. In an estuarine functional zone;</i> <i>vi. A protected area identified in terms of NEMPAA;</i> <i>vii. Sites or areas identified in terms of an international convention;</i> <i>viii. Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</i> <i>ix. Core areas in biosphere reserves;</i> <i>x. Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority or zoned for a conservation purpose;</i> <i>xi. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;</i> <i>xii. Outside urban areas:</i> <i>(aa) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any terrestrial protected area identified in terms of NEMPAA or from the core areas of a biosphere reserve; or</i> <i>(bb) Areas seawards of the development setback line or within 1 kilometre from the high-water mark of the sea if no such development setback line is determined; or</i>	

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
			<i>xiii. Inside urban areas:</i> <i>(aa) Areas zoned for use as public open space;</i> <i>(bb) Seawards of the development setback line or within 100 metres from the high-water mark of the sea if no such development setback line is determined; or</i> <i>(cc) Within urban protected areas.</i> RELEVANCE: Widening of existing roads will be required within an area considered to have very high ecological importance, due to the presence and potential occurrence of threatened and protected plant species.	
Disposal of inert waste	Approximately 400 ha.	X	National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category A (Basic Assessment), Activity 9 <i>The disposal of inert waste to land in excess of 25 tons but not exceeding 25 000 tons, excluding the disposal of such waste for the purposes of levelling, and building which has been authorised by or under other legislation.</i> RELEVANCE: The Jindal Melmoth Iron Ore Project will require the disposal of inert waste generated during the construction phase.	X
Salvage area and waste disposal area	3 000 m ²	X	National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category A (Basic Assessment), Activity 12 <i>The construction of a facility for a waste management activity listed in Category A of this Schedule (not in isolation to associated waste management activity).</i> RELEVANCE: The Jindal Melmoth Iron Ore Project will require a salvage yard and a waste storage area, etc.	X

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 983, GNR 984 or GNR 985)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
Establishment of a waste rock dump	600 ha	X	National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category B (Scoping & EIA), Activity 11 <i>The establishment or reclamation of a residue stockpile or residue deposit resulting from activities which require a mining right, exploration right or production right in terms of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).</i> RELEVANCE: The Jindal Melmoth Iron Ore Project will require the establishment of a WRD.	X
Temporary waste storage facility.	Approximately 1 ha	Not Applicable	National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category C (Norms & Standards), Activity 1 <i>The storage of general waste at a facility that has the capacity to store in excess of 100m³ of general waste at any one time, excluding the storage of waste in lagoons or temporary storage of such waste.</i> RELEVANCE: Waste storage facility for temporary storage prior to removal from site and disposal at a licensed facility.	X
Temporary storage of used oils or other hazardous waste.	Approximately 1 ha	Not Applicable	National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category C (Norms & Standards), Activity 2 <i>The storage of hazardous waste at a facility that has the capacity to store in excess of 80m³ of hazardous waste at any one time, excluding the storage of hazardous waste in lagoons or temporary storage of such waste.</i> RELEVANCE: Storage of used oils or other hazardous waste at a waste storage yard on a temporary basis before removal from site for disposal at a licensed facility.	X

6. PUBLIC PARTICIPATION

(Provide details of the public participation process proposed for the application as required by Regulation.

Details of the Public Participation process to be followed.

6.1.1. IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED

IDENTIFICATION CRITERIA	Mark with an X where applicable	
	YES	NO
Will the landowner be specifically consulted?	X	
Will the lawful occupier on the property other than the Landowner be consulted?	X	
Will a tribal authority or host community that may be affected be consulted?	X	
Will recipients of land claims in respect of the area be consulted?	X	
Will the landowners or lawful occupiers of neighbouring properties be identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 metres of the area be consulted?	X	
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	X	
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify)		X
Will the Provincial Department responsible for the environment be consulted?	X	
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	X	
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project?	X	
Other, Specify	Not applicable	

6.1.2. DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

<p>Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix 7)</p>	<p>The Public Participation Process (PPP) for the proposed project will be aligned with the requirements of Chapter 6 of the Environmental Impact Assessment Regulations (GNR 982 of 2017) 2014, as amended and guided by the DFFE Direction issued under Government Notice (GN) 650 of 2020. Details pertaining to the public participation tasks undertaken to date including the planned public participation for the remainder of the Scoping and EIA process are outlined in Table 1 below. The aim of the PPP is to co-ordinate a process through which Interested and Affected Parties (I&APs) are informed of the proposed project and environmental assessment process and are provided with an opportunity to provide input into the project.</p> <p>Table 1: Public Participation Process</p> <table border="1"> <thead> <tr> <th>Task</th><th>Description</th></tr> </thead> <tbody> <tr> <td colspan="2">Public participation process undertaken to date</td></tr> <tr> <td colspan="2">Pre-application Phase</td></tr> <tr> <td>DMRE pre-application meeting</td><td> <p>Pre-application meeting was held with KwaZulu-Natal Department of Mineral Resources and Energy's officials via Microsoft Teams on 3 March 2021. The purpose of this meeting was:</p> <ul style="list-style-type: none"> to provide the DMRE with some background information on the proposed project; to discuss the proposed environmental assessment and permitting process; and To outline and obtain input from the DMRE on the planned public participation process. </td></tr> </tbody> </table>	Task	Description	Public participation process undertaken to date		Pre-application Phase		DMRE pre-application meeting	<p>Pre-application meeting was held with KwaZulu-Natal Department of Mineral Resources and Energy's officials via Microsoft Teams on 3 March 2021. The purpose of this meeting was:</p> <ul style="list-style-type: none"> to provide the DMRE with some background information on the proposed project; to discuss the proposed environmental assessment and permitting process; and To outline and obtain input from the DMRE on the planned public participation process.
Task	Description								
Public participation process undertaken to date									
Pre-application Phase									
DMRE pre-application meeting	<p>Pre-application meeting was held with KwaZulu-Natal Department of Mineral Resources and Energy's officials via Microsoft Teams on 3 March 2021. The purpose of this meeting was:</p> <ul style="list-style-type: none"> to provide the DMRE with some background information on the proposed project; to discuss the proposed environmental assessment and permitting process; and To outline and obtain input from the DMRE on the planned public participation process. 								

	Application Phase	
	Environmental authorisation application submission	Submission of this NEMA environmental authorisation application to the DMRE.
	Notification of commenting authorities and I&APs undertaken to date	
	Desktop social scan	The identification of I&APs was achieved by undertaking a desktop social scan. This consisted of an update to the existing I&AP database and verification of I&APs' and authority (competent and commenting) details.
	Land claims commissioner consultation	The Department of Rural Development and Land Reform (DRDLR), including the Office of the Regional Land Claims Commissioner in KwaZulu-Natal was contacted to confirm if there are any land claims on the land parcels to be affected by the proposed Jindal Melmoth Iron Ore Project. Appendix 7 includes a copy of correspondence to date with the Land Claims Commissioner dated 15 July 2021 regarding land claims applications lodged within the project area.
	Focussed Meetings with the Traditional Authorities	<p>An initial Focus Group Meeting was held with Traditional Authorities with jurisdiction over the project area in Melmoth on 15 June 2021. The purpose of the initial Focus Group Meetings was:</p> <ul style="list-style-type: none"> • to introduce the proposed project to the Traditional Councils; • to discuss the proposed environmental assessment and permitting process; and • to outline and obtain input from the Royal Entembeni Traditional Council on the planned public participation process. • To outline and obtain input from the DMRE on the planned public participation process (including how and where concerns, queries and comments can be submitted with regards to the proposed project).
	Background Information Document (BID) distribution	<p>A BID (English and isiZulu) was compiled by SLR and issued to I&APs at the commencement of the public participation process to I&APs – government departments, organs of state and traditional authorities on 17 June 2021. The BID provided:</p> <ul style="list-style-type: none"> • information about the proposed project; • information about the baseline environment; • information about the environmental assessment process (Scoping and EIA process); • information pertaining to potential biophysical, cultural, and socio-economic impacts; and • information on how I&APs and commenting authorities can have input into the environmental assessment process. <p>A registration and response form was attached to the BID, which provided I&APs and commenting authorities with an opportunity to register and submit comments on the proposed project. The BID was distributed electronically (email) to commenting authorities and I&APs registered on the project database on 17 June 2021. Copies of the BID were also made available on the SLR website (at https://slrconsulting.com/za/slr-documents and the</p>

		<p>data-free website (at slrpublicdocs.datafree.co). Emails and text messages containing a link to the SLR website and SLR data-free website, were also sent to all I&APs on the project database.</p> <p>A copy of the BID including proof of distribution is included in Appendix 7.</p>
	Distribution of flyers and placement of site notices	<p>An estimated 30 site notices in English and isiZulu were placed in multiple locations within the project area in June 2021. The site notices provided an overview of the proposed project, links where reports could be accessed, information regarding public meetings to be held subject to COVID-19 restrictions, as well as contact details of SLR where comments could be submitted.</p> <p>A proof of placement of the site notice, including a map illustrating the various locations where the site notices were placed is included in Appendix 7.</p>
	Placement of newspaper advertisements	<p>Newspaper adverts (in English and isiZulu) were placed in:</p> <ul style="list-style-type: none"> • The Mercury, 15 June 2021, English; • Eyethu Baywatch - 16 June 2021, English; • Isolezwe - 18 June 2021, isiZulu; and • Zululand Observer - 21 June 2021, English. <p>The newspaper advertisements contained information on the nature of the activity, the application process, as well as details of the EAP, and details on how to register as an I&AP and provide comments. Refer to Appendix 7 for copies of advertisement tear sheets.</p>
	Planned Public Participation	
	Public review and commenting authority review of the Scoping Report	<p>The Scoping and EIA Reports will be distributed for a 30-day comment period in order to provide I&APs and commenting authorities with an opportunity to comment on any aspect of the proposed project and the findings of the environmental assessment process.</p> <p>Full copies of the Scoping and EIA Reports and the Non-technical Summaries (NTS) will be made available on the SLR website (at https://slrconsulting.com/za/slr-documents/) and the SLR data-free website (at slrpublicdocs.datafree.co). Hard copies will be made available at various locations (to be determined). The NTS in both English and isiZulu will also be emailed to I&APs and commenting authorities registered on the project database. In addition, text messages which contain a link to the SLR website and the SLR data-free website, will be sent to all I&APs on the database.</p>
	I&AP Notification of the DMRE decision	<p>The notification of the competent authorities decision will be communicated via text messages and emailed to all I&APs registered on the database.</p>
Information to be provided to Interested and Affected Parties.	<p>Compulsory</p> <ul style="list-style-type: none"> • The site plan; • List of activities to be authorised; • Scale and extent of activities to be authorised; • Typical impacts of activities to be authorised (e.g., surface disturbance, dust, noise, drainage, fly rock etc.); • The duration of the activity; and • Sufficient detail of the intended operation to enable them to assess what impact the activities 	

	will have on them or on the use of their land).
	Other, Specify: Not Applicable
Information to be required from Interested and Affected Parties.	Compulsory <ul style="list-style-type: none"> • To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions; • To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity; • To provide information on current land uses and their location within the area under consideration; • To provide information on the location of environmental features on site to make proposals as to how and to what standard the impacts on site can be remedied. requested to make written proposals; and • To mitigate the potential impacts on their socio-economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied).
	Other, Specify: Not Applicable

7. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION												
Environmental attributes. Describe how the Environmental attributes associated with the development footprint will be determined.	<p>Likely biophysical, cultural, and socio-economic attributes of the areas associated with the proposed project activities will be determined through consideration of the site layout, site visits and specialist input (where required).</p> <p>Input on the biophysical, cultural, and socio-economic attributes will also be obtained from I&APs and commenting authorities during the public participation process and as part of the review of the Scoping Report.</p>												
Identification of impacts and risks. (Describe the process that will be used to identify impacts and risks.	<p>Biophysical, cultural, and socio-economic impacts and risks associated with the proposed project activities will be identified through review of available reports and data, site visits, the site layout and specialist input.</p> <p>Input on the biophysical, cultural, and socio-economic impacts will also be obtained from I&APs and commenting authorities during the public participation process and the review of the Scoping Report.</p>												
Consideration of alternatives. Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.	<p>The development footprint was determined by the applicant through the undertaking of a detailed Prefeasibility Study to determine the viability of a mining operation of this scale within the project area. The Bankable Feasibility Study is currently underway. Various alternatives will be assessed in the Scoping Study.</p>												
Process to assess and rank impacts. Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.	<p>The proposed method for the assessment of issues is set out in Appendix 9. This assessment methodology enables the assessment of issues including cumulative impacts, the severity of impacts (including the nature of impacts and the degree to which impacts may cause irreplaceable loss of resources), the extent of the impacts, the duration and reversibility of impacts, the probability of the impact occurring, and the degree to which the impacts can be mitigated. Residual impacts are also determined.</p>												
Contribution of specialist reports Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.	<p>The Department of Forestry, Fisheries, and the Environment (DFFE) has developed an online Screening Tool, the use of which was compulsory since 04 October 2019. Separate Screening Reports were generated by the tool for the North and South blocks associated with the Jindal Melmoth Iron Ore Project. These reports are included as Appendix 10. The Screening Reports highlight desktop sensitivities associated with the two-mining block areas and outline the specialist studies that need to be considered as part of the proposed project. In this regard, the table below outlines the specialist studies proposed in the Screening Report along with an explanation as to how these recommendations will be considered in the EIA Report.</p> <table><tr><th>Theme</th><th>Sensitivity</th><th>Requirements</th></tr><tr><td>Agriculture</td><td>Very High</td><td>In accordance with the <i>‘Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Agricultural Resources’</i>, an Agricultural Agro-Ecosystem Specialist Assessment will be undertaken during the EIA Phase of the proposed project.</td></tr><tr><td>Animal Species</td><td>High</td><td>In accordance with the <i>‘Protocol for the Assessment and Reporting of Environmental Impacts on Terrestrial Plant Species’</i>, a Terrestrial Animal Species Impact Assessment will be undertaken during the EIA Phase of the proposed project.</td></tr><tr><td>Plant Species</td><td>Medium</td><td>In accordance with the <i>‘Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Terrestrial Animal Species’</i>, a Terrestrial Plant Species Assessment will be undertaken during the EIA phase of the proposed project.</td></tr></table>	Theme	Sensitivity	Requirements	Agriculture	Very High	In accordance with the <i>‘Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Agricultural Resources’</i> , an Agricultural Agro-Ecosystem Specialist Assessment will be undertaken during the EIA Phase of the proposed project.	Animal Species	High	In accordance with the <i>‘Protocol for the Assessment and Reporting of Environmental Impacts on Terrestrial Plant Species’</i> , a Terrestrial Animal Species Impact Assessment will be undertaken during the EIA Phase of the proposed project.	Plant Species	Medium	In accordance with the <i>‘Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Terrestrial Animal Species’</i> , a Terrestrial Plant Species Assessment will be undertaken during the EIA phase of the proposed project.
Theme	Sensitivity	Requirements											
Agriculture	Very High	In accordance with the <i>‘Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Agricultural Resources’</i> , an Agricultural Agro-Ecosystem Specialist Assessment will be undertaken during the EIA Phase of the proposed project.											
Animal Species	High	In accordance with the <i>‘Protocol for the Assessment and Reporting of Environmental Impacts on Terrestrial Plant Species’</i> , a Terrestrial Animal Species Impact Assessment will be undertaken during the EIA Phase of the proposed project.											
Plant Species	Medium	In accordance with the <i>‘Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Terrestrial Animal Species’</i> , a Terrestrial Plant Species Assessment will be undertaken during the EIA phase of the proposed project.											

	Terrestrial Biodiversity	Very High	In accordance with the <i>'Protocol for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Terrestrial Biodiversity'</i> , a Terrestrial Biodiversity Species Assessment will be undertaken during the EIA phase of the proposed project.
	Aquatic Biodiversity	Very High	In accordance with the <i>'Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Aquatic Biodiversity'</i> , an Aquatic Biodiversity Specialist Assessment will be undertaken during the EIA phase of the proposed project.
	Archaeological and Cultural Heritage	High	A Heritage (including Palaeontology) Impact Assessment will be undertaken during the EIA phase of the proposed project to determine the presence and location of heritage resources within the project area, in relation to the project layout.
	Palaeontology	Medium	
	Civil Aviation	High	In accordance with the <i>'Protocol for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Civil Aviation Installations'</i> , a Compliance Statement will produced in terms of an impact on civil aviation installations. However, no airport exists within 25km.
	Defence	Low	In accordance with the <i>'Protocol for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Defence Installations'</i> , no further requirements are deemed necessary for areas associated with a low defence installation sensitivity.
<p>In addition to the Specialist Studies identified above the following studies will be undertaken to further inform the environmental sensitivity of the area:</p> <ul style="list-style-type: none"> a. Landscape / Visual Impact Assessment b. Hydrology Assessment c. Noise Impact Assessment d. Traffic Impact Assessment e. Geotechnical Assessment f. Climate Change Impact Assessment g. Health Impact Assessment h. Socio-Economic Impact Assessment i. Ambient Air Quality Impact Assessment <p>All Specialist Studies will be undertaken during the EIA phase of the proposed project.</p>			
Determination of impact management objectives and outcomes. Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards.	The EAP and specialists will determine the impact management objectives and actions with consideration to the relevant standards and guidelines.		

8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMA's				
National Environmental Management: Air Quality Act		X		
National Environmental Management: Biodiversity Act		X		
National Environmental Management: Integrated Coastal Management Act		X		
National Environmental Management: Protected Areas Act		X	Not Applicable	
National Environmental Management: Waste Act	X		X	
National legislation				
Mineral Petroleum Development Resources Act	X		X	
National Water Act	X			X
National Heritage Resources Act		X		
Others: Please specify Mine Health and Safety Act, Explosives Act, National Roads Act, National Railway Safety Regulator Act.		X		

Please provide proof of submission of applications in **Appendix 6**.

In the event that an authorisation in terms of the National Environmental Waste Management Act (No. 59 of 2008) (NEM:WA) is required for any of the activities applied for please state so clearly in order for such an authorisation to be considered as part of this application. [A Waste License is required for the proposed Jindal Melmoth Iron Ore Project for the activities identified in Section 5.](#)

9. DRAFT EMPR

For consultation purposes, provide a high-level approach to the management of the potential environmental impacts of each of the activities applied for.

[A high-level approach to the management of potential biophysical, cultural, and socio-economic impacts is provided in the table below. It is important to note that management measures provided in the table below will be refined during the EIA phase of the proposed project.](#)

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc...., etc....,)*	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
Site preparation and construction activities – Clearing of vegetation, establishing contractors' laydown area, stripping, handling and stockpiling topsoil, cleaning, grubbing and bulldozing activities, establishing stormwater controls, excavations, bulk earthworks including foundations, trenches and berms, and establishing additional road networks.	Construction	Up to 1 000 ha – Pit, WRD & plant: 750 ha Water supply pipeline: 85 ha Transmission lines & substation: 6.5 ha Haul roads: 161 ha Shunting yard: 7.5 ha	<ul style="list-style-type: none"> • Limit the extent of disturbed areas. • Limit site clearance to what is absolutely necessary for the new infrastructure. • Strip, handle, stockpile and re-use soil resources in line with site specific soil conservation and management plan. • Basic infrastructure design that is adequate to contain polluting substances. • Training of workers to prevent pollution. • Equipment and vehicle maintenance. • Effective waste management. • Undertake pre-construction surveys of the development footprints for species suitable for search and rescue operations. • Avoid sensitive areas as far as practically possible. • Obtain relevant permits prior to removal of protected species. • Implementation of an alien invasive species programme. • Limit emissions (dust, light, noise). • Training of employees on the value of biodiversity. • Zero tolerance for harming and harvesting fauna and flora. • Effective waste management and pollution 	<ul style="list-style-type: none"> • National Environmental Biodiversity Act, No. 10 of 2004, as amended (NEMBA), Alien and Invasive Species Regulations (2014), as amended that requires the control of invasive species. • The removal of protected species in accordance with the National Forest Act and Regulations, No. 84 of 1998. • Monitor air quality in terms of the National Dust Control Regulations (GNR. 827) and guidelines as contained in the South African National Standards for Ambient air quality: Limits for common pollutants (SANS 1929:2010). • Compliance with the National Heritage Resource Act (No. 25 of 1999) in the event of any

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
			<p>prevention.</p> <ul style="list-style-type: none"> • Implementation of a biodiversity action plan to ensure that the undeveloped/disturbed areas within the property are properly conserved and maintained. • Provide noise berms where possible between activities and receptors. • Conduct noise monitoring in response to noise complaints • Plan project to avoid any heritage resources of significant importance. • Training of workers regarding the heritage and cultural sites that may be encountered and about the need to conserve these. • Fence off and limit access to any heritage and cultural sites that could be indirectly disturbed by mining activities. • In the event that heritage resources are identified, a chance find emergency procedure should be implemented. • Develop and implement procedures for recruiting, training and procurement that align with good industry practise. • Employ local people and procure goods and services locally as far as practically possible. • Effective communication to manage expectations with regard to employment 	<p>chance finds.</p> <ul style="list-style-type: none"> • Annual updates of the financial provision in terms of the Financial Regulations GNR. 1147 of 2015, as amended. • Compliance with GNR 704, June 1999 of the NWA for the separation of clean and dirty water systems, including exemption from GNR 704 for distances to watercourses and placing residue material in opencast mine excavations. • IWUL in terms of the NWA for Section 21 water uses.

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
			<p>and other opportunities.</p> <ul style="list-style-type: none"> Ensure that closure planning considerations address the re-skilling of employees for the downscaling, early closure and long-term closure scenarios. 	
Mine Infrastructure - General building activities, erection of structures and concrete and steel work associated with infrastructure complexes and the related support facilities (including road development and power supply).	Construction and operational.	Approximately 300 ha - Plant: 51 ha Transmission lines & substation: 6.5 ha Haul Roads: 161 ha Water supply pipelines: 85 ha	<ul style="list-style-type: none"> Limit the extent of disturbed areas. Limit site clearance to what is absolutely necessary. Strip, handle, stockpile and re-use soil resources in line with site specific soil conservation and management plan. Basic infrastructure design that is adequate to contain polluting substances. Training of workers to prevent pollution. Equipment and vehicle maintenance. Effective waste management. Avoid sensitive areas as far as practically possible. Obtain relevant permits prior to removal of protected species. Implementation of an alien invasive species programme. Limit emissions (dust, light, noise). Training of employees on the value of biodiversity. Zero tolerance for harming and harvesting 	<ul style="list-style-type: none"> National Environmental Biodiversity Act, No. 10 of 2004, as amended (NEMBA), Alien and Invasive Species Regulations (2014), as amended that requires the control of invasive species. The removal of protected species in accordance with the National Forest Act and Regulations, No. 84 of 1998. Monitor air quality in terms of the National Dust Control Regulations (GNR. 827) and guidelines as contained in the South African National Standards for Ambient air quality: Limits for common pollutants (SANS

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
			<p>fauna and flora.</p> <ul style="list-style-type: none"> • Effective waste management and pollution prevention. • Implementation of a biodiversity action plan to ensure that the undeveloped/disturbed areas within the property are properly conserved and maintained. • Provide noise berms where possible between activities and receptors. • Conduct noise monitoring in response to noise complaints • Plan project to avoid any heritage resources of significant importance. • Training of workers regarding the heritage and cultural sites that may be encountered and about the need to conserve these. • Fence off and limit access to the heritage and cultural sites that could be indirectly disturbed by mining activities. • In the event that heritage resources are identified, a chance find emergency procedure should be implemented. • Develop and implement procedures for recruiting, training and procurement that align with good industry practise. • Employ local people and procure goods and services locally as far as practically possible. 	<p>1929:2010).</p> <ul style="list-style-type: none"> • Compliance with the National Heritage Resource Act (No. 25 of 1999) in the event of any chance finds. • Annual updates of the financial provision in terms of the Financial Regulations GNR. 1147 of 2015, as amended. • Compliance with GNR 704, June 1999 of the NWA for the separation of clean and dirty water systems, including exemption from GNR 704 for distances to watercourses and placing residue material in opencast mine excavations. • IWUL in terms of the NWA for Section 21 water uses.

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
			<ul style="list-style-type: none"> Effective communication to manage expectations with regard to employment and other opportunities. Ensure that closure planning considerations address the re-skilling of employees for the downscaling, early closure and long-term closure scenarios. 	
Transportation - Vehicle, machinery and/or material movement within the site boundary and use of access road and public roads for transporting staff, consumables and general/industrial waste.	Construction/Operation	100 vehicles per day in and out of the site	<ul style="list-style-type: none"> Limit disturbed areas. Suppress dust effectively. Maintain equipment and vehicles in good working order. Construct safe access points/intersections. Educate employees (temporary and permanent) about road safety. Enforce strict vehicle speeds. Enforce strict rules with regard to taking regular breaks during long trips. If a person or animal is injured by transport activities an emergency response procedure must be implemented. 	<ul style="list-style-type: none"> National road safety standards
Water Supply and Management - Potable water supply from local municipality, Process/make-up water supply from local municipality, on-site clarified water reservoir, clean water	Construction/Operation	Volume to be determined as part of the EIA Process	<ul style="list-style-type: none"> Design and implement contamination containment measures. Mine infrastructure will be constructed and operated so as to comply with the National Water Act No. 36 of 1998 and Regulation 	<ul style="list-style-type: none"> Compliance with GNR 704, June 1999 of the NWA for the separation of clean and dirty water systems, including exemption from GNR 704

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
storage, dirty water storage and management, stormwater management, and dust suppression.			704 (4 June 1999): <ul style="list-style-type: none"> Clean and dirty water systems will be separated. Clean run-off will be diverted away from the site. Dirty water will be contained. Conduct surface water monitoring and implement remedial actions as required. Effective equipment and vehicle maintenance. Fast and effective clean-up of spills. Effective waste management. Education and training of workers. Apply and operate in line with a water use license. Effective rehabilitation to achieve post closure land use. Conduct groundwater monitoring and implement remedial actions as required. Infrastructure that has the potential to pollute groundwater will be identified and included into a groundwater pollution management plan which will be implemented as part of the operational phase through post-closure as required. 	for distances to watercourses and placing residue material in opencast mine excavations. <ul style="list-style-type: none"> IWUL in terms of the NWA for Section 21 water uses.
General and Hazardous Waste	Construction/Operation	Volume to be	<ul style="list-style-type: none"> Design and implement contamination 	<ul style="list-style-type: none"> Compliance with GNR

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
Management - Temporary storage and sorting of general and hazardous waste at a waste/salvage yard for re-use or recycling, Removal of waste by contractor for recycling, re-use or final disposal at permitted waste disposal facilities, treatment of sewage in sewage treatment plants, and management of brine and solids produced by the waste water treatment plant.		determined as part of the EIA Process	containment measures. <ul style="list-style-type: none"> Infrastructure that has the potential to pollute groundwater will be identified and included into a groundwater pollution management plan which will be implemented as part of the operational phase through post-closure as required. Design and implement contamination containment measures. Mine infrastructure will be constructed and operated so as to comply with the National Water Act No. 36 of 1998 and Regulation 704 (4 June 1999): <ul style="list-style-type: none"> Clean and dirty water system will be separate. Clean run-off will be diverted away from the site. Dirty water will be contained. Conduct surface water monitoring and implement remedial actions as required. Effective equipment and vehicle maintenance. Fast and effective clean-up of spills. Effective waste management. Education and training of workers. Apply and operate in line with a water use license. 	704, June 1999 of the NWA for the separation of clean and dirty water systems, including exemption from GNR 704 for distances to watercourses and placing residue material in opencast mine excavations. <ul style="list-style-type: none"> IWUL in terms of the NWA for Section 21 water uses.

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
			- Effective rehabilitation to achieve post closure land use.	

10. CLOSURE PLAN

<p>In the space provided under each heading below, please provide a high-level description of the plan for closure and the information that will be provided in the draft EMPr accompanying draft basic assessment report or environmental impact reports going forward.</p>	
<p>Baseline environment Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment</p>	<p>The baseline environment has been characterised using information obtained from desktop and field-based surveys undertaken by specialists. I&APs will have an opportunity to provide input on the baseline environment through the review and comment of the Scoping Report. I&APs will have a further opportunity to provide input on the baseline environment through the review of the EIA Report.</p>
<p>Closure objectives Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>A stand-alone Closure and Rehabilitation Report will be compiled as part of the EIA phase.</p>
<p>Rehabilitation Plan Describe the scale and aerial extent of the prospecting or mining listed activities to be authorised, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.</p>	
<p>Rehabilitation Cost Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof</p>	
<p>Decommissioning Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity.</p>	<p>When the project reaches Life of Mine (LoM), all infrastructure will be decommissioned and the relevant disturbed areas would be rehabilitated in line with the relevant legislative requirements and best practice guidelines.</p>


Signature of the applicant / Signature on behalf of the applicant:

JINDAL IRON ORE (PTY) LTD.

Name of company (if applicable):

01/02/2022

Date: