

## APPENDIX G: NEMA AND NEM:WA APPLICATIONS





# mineral resources & energy

Department:  
Minerals Resources and Energy  
**REPUBLIC OF SOUTH AFRICA**

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Reference: KZN 30/5/1/2/2/10107MR

THE MANAGER  
JINDAL IRON ORE (PTY) LTD  
**22 KILDOON ROAD**  
**BRYANSTON**  
**2021**

**APPLICATION FOR ENVIRONMENTAL AUTHORISATION LODGED IN TERMS OF SECTION 24 OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) AND NATIONAL ENVIRONMENTAL MANAGEMENT WASTE AMENDMENT ACT, 2014 READ WITH REGULATION 21 AND 23 OF THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGULATIONS, 2014 (AS AMENDED) - MINING RIGHT AND RELATED INFRASTRUCTURAL ACTIVITIES. LISTED ACTIVITIES TRIGGERED BY APPLICATIONS IN TERMS OF THE MPRDA, 2002 (AS AMENDED) – JINDAL IRON ORE (PTY) LTD**

1. The application for an environmental authorisation lodged on 07<sup>th</sup> February 2022 is acknowledged.
2. Please ensure that going forward with the application that the identified listed activities are cited as per the 11<sup>th</sup> June 2021 amendment.
3. In terms of Regulation 15 of the NEMA EIA Regulations, 2014 an Environmental Assessment Practitioner (EAP) must identify whether basic assessment or scoping & EIR must be applied to the application taking into account any notices published in terms of section 24D of the Act.



4. The investigation, assessment and communication of the potential impact of activities must follow the procedure as prescribed in regulations 21, 22, 23 and 24 of the Environmental Impact Assessment Regulations, 2014, in line with the listed activities identified by your EAP.
5. It must be noted that acknowledgement of your application does not grant you permission to commence with **MINING** activities. Commencement of a listed activity without an environmental authorisation constitutes an offence in terms of Section 49A (1) (a) of NEMA, 1998 (Act 107 of 1998) as amended and upon conviction for such an offence, a person is liable to a fine not exceeding R10 million or to imprisonment for a period not exceeding ten years, or to both such fine and such imprisonment.
6. Your attention is drawn to paragraph 4 of the EA application form which states *"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"*.
7. The public participation process must comply with regulation 39 – 44 of the EIA Regulations as per the amendments on 11<sup>th</sup> July 2021.
8. You are advised that in terms of Regulation 40 (2) (b) & (c) of the NEMA EIA Regulations *"The public participation process contemplated in this regulation must provide access to all information that reasonably has or may have the potential to influence any decision with regard to an application unless access to that information is protected by law and must include consultation with - (b) every State department that administers a*



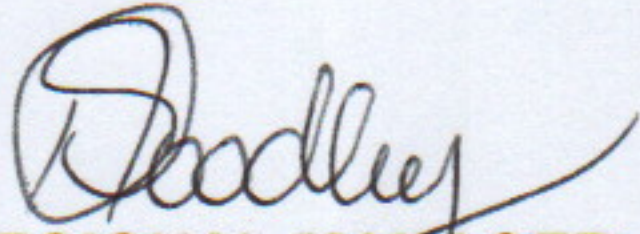
*law relating to a matter affecting the environment relevant to an application for an environmental authorisation, (c) all organs of state which have jurisdiction in respect of the activity to which the application relates". This must include but not be limited to Ezemvelo KZN Wildlife, Department of Water and Sanitation, National Department of Agriculture Forestry and Fisheries and AMAFA KZN.*

9. The scoping report required in terms of Regulation 21 and in line with Appendix 2 of the NEMA EIA Regulations, 2014 must be subjected to a public participation process of at least 30 days, which reflects the incorporation of comments received (including other organs of state), including any comments of the competent authority.
10. If the mining right application is rejected, this office will cease with the processing of the environmental authorisation application.
11. Your attention is drawn to Point 3 on page 1 of the EA application form read with Section 8 in respect of the need to lodge proof of an application for a water use licence upon acceptance of the application for a mining permit or right in terms of the MPRDA, 2002 (as amended).
12. Kindly note that Regulation 45 of 2014 EIA Regulations stipulates that *"an application in terms of these Regulations lapses and a competent authority will deem the application as having lapsed, if the applicant fails to meet any of the time-frames prescribed in terms of these Regulations, unless extension has been granted in terms of regulation 3(7)."*
13. Kindly note that you will be required to upload a copy of the final scoping report and its supporting documentation online and must lodge 2 hard copies at the Regional Office.



Please feel free to contact this office should you have any queries.

Yours faithfully



**REGIONAL MANAGER**  
**MINERAL AND PETROLEUM REGULATION**  
**KWAZULU NATAL**

DATE: 10/02/2022





## mineral resources

Department:  
Mineral Resources  
**REPUBLIC OF SOUTH AFRICA**

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

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#### 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@jindalafrika.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

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

<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
New water pipelines for water supply.	100 ha	X	<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 9:</b> <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>  <b>RELEVANCE:</b> 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	<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 10:</b> <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



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<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><b>RELEVANCE:</b> 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><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 11:</b>  <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><b>RELEVANCE:</b> 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	<b>National Environmental Management Act (No. 107 of 1998)</b>	Not Applicable



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
i.e., diesel, oil, and other lubricants, etc.	500 m <sup>3</sup> .		<p><b>(NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 14:</b>  <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><b>RELEVANCE:</b> 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 m<sup>3</sup>.</p>	
Construction of site infrastructure	Within the proposed footprint of 1 500 ha		<p><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 19:</b></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></p> <ul style="list-style-type: none"> <li><i>(a) will occur behind a development setback;</i></li> <li><i>(b) is for maintenance purposes undertaken in accordance with a maintenance management plan;</i></li> <li><i>(c) falls within the ambit of activity 21 in this Notice, in which case that activity applies;</i></li> <li><i>(d) occurs within existing ports or harbours that will not increase the development footprint of the port or harbour; or</i></li> <li><i>(e) where such development is related to the development of a port or harbour, in which case activity</i></li> </ul>	Not Applicable



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<p style="text-align: center;"><i>26 in Listing Notice 2 of 2014 applies</i></p> <p><b>RELEVANCE:</b> 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><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (GNR 983), as amended, Activity 24:</b>  <i>The development of a road -</i></p> <ul style="list-style-type: none"> <li>(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></li> <li>(ii) <i>with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres;</i></li> </ul> <p><i>but excluding a road -</i></p> <ul style="list-style-type: none"> <li>(a) <i>which is identified and included in activity 27 in Listing Notice 2 of 2014;</i></li> <li>(b) <i>where the entire road falls within an urban area; or</i></li> <li>(c) <i>which is 1 kilometre or shorter.</i></li> </ul> <p><b>RELEVANCE:</b> 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><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 25:</b>  <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><b>RELEVANCE:</b> The Jindal Melmoth Iron Ore Project will require a</p>	Not Applicable



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			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	<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 30:</b> <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>  <b>RELEVANCE:</b> 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	<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 56:</b> <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>  <b>RELEVANCE:</b> 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	<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 1 (. GNR 983), as amended, Activity 64:</b> <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



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<b>RELEVANCE:</b> 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	<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 4:</b> <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>  <b>RELEVANCE:</b> 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 m <sup>3</sup> .	X
Other permits or licenses required.	N/A	X	<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 6:</b> <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>	



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<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><b>RELEVANCE:</b> 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><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 15:</b>  <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> <p>(i) <i>the undertaking of a linear activity; or</i></p> <p>(ii) <i>maintenance purposes undertaken in accordance with a maintenance management plan."</i></p> <p><b>RELEVANCE:</b> 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 m <sup>3</sup> will be required which would require a wall of 5 m or higher.	Within plant footprint – 100 ha	X	<p><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 16:</b>  <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><b>RELEVANCE:</b></p>	



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
The project requires a mining right	Total area of approximately 1 500 ha.	X	<p><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 17:</b></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><b>RELEVANCE:</b> 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><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 2 (GNR 984), as amended, Activity 19:</b></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>	



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<b>RELEVANCE:</b> 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 m <sup>3</sup> within a CBA.	Up to 100 000 m <sup>3</sup> , 3 ha	X	<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 2:</b> <i>The development of reservoirs, excluding dams, with a capacity of more than 250 cubic metres.</i> <ul style="list-style-type: none"> <li>d. KwaZulu-Natal               <ul style="list-style-type: none"> <li>i. Trans-frontier protected areas managed under international conventions;</li> <li>ii. Community Conservation Areas;</li> <li>iii. Biodiversity Stewardship Programme Biodiversity Agreement areas;</li> <li>iv. World Heritage Sites;</li> <li>v. In an estuarine functional zone;</li> <li>vi. In a protected area identified in terms of NEMPAA, excluding conservancies;</li> <li>vii. Sites or areas identified in terms of an international convention;</li> <li>viii. Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</li> <li>ix. Core areas in biosphere reserves;</li> <li>x. Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority, or zoned for a conservation purpose;</li> <li>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;</li> <li>xii. Outside urban areas:</li> </ul> </li> </ul>	Not Applicable



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<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><b>RELEVANCE:</b> The Jindal Melmoth Iron Ore Project will require the construction and operation of a reservoir in excess of 250 m<sup>3</sup> in capacity within a critical biodiversity area.</p>	
The construction of haul and access roads	Within total area of approximately 1 500 ha.		<p><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 4:</b>  <i>The development of a road wider than 4 metres with a reserve less than 13,5 metres. KwaZulu-Natal</i></p> <p>i. In an estuarine functional zone;</p> <p>ii. Trans- frontier protected areas managed under international conventions;</p> <p>iii. Community Conservation Areas;</p> <p>iv. Biodiversity Stewardship Programme Biodiversity Agreement areas;</p> <p>v. World Heritage Sites;</p> <p>vi. A protected area identified in terms of NEMPAA;</p>	



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<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><b>RELEVANCE:</b> 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		<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 12:</b> The clearance of an area of 300 square metres or more of	Not Applicable



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m²</b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
	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>	



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<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><b>RELEVANCE:</b> 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 300m<sup>2</sup></p>	
Some infrastructure developed for the Jindal MIOP would be within 32 m of a watercourse.	Up to 100 000 m <sup>3</sup> , 3 ha	X	<p><b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 14:</b></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> "d. KwaZulu-Natal</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>	



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<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><b>RELEVANCE:</b> Some infrastructure (plant, pit, WRDS, roads etc) developed for the Jindal MIOP would be within 32 m of a watercourse.</p>	



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m²</b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
Widening of roads		X	<b>National Environmental Management Act (No. 107 of 1998) (NEMA), Listing Notice 3 (GNR 985), as amended, Activity 18:</b> <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>	



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
			<p><i>xiii. Inside urban areas:</i></p> <p><i>(aa) Areas zoned for use as public open space;</i></p> <p><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></p> <p><i>(cc) Within urban protected areas.</i></p> <p><b>RELEVANCE:</b> 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.</p>	
Disposal of inert waste	Approximately 400 ha.	X	<p><b>National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category A (Basic Assessment), Activity 9</b></p> <p><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></p> <p><b>RELEVANCE:</b> The Jindal Melmoth Iron Ore Project will require the disposal of inert waste generated during the construction phase.</p>	X
Salvage area and waste disposal area	3 000 m <sup>2</sup>	X	<p><b>National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category A (Basic Assessment), Activity 12</b></p> <p><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></p> <p><b>RELEVANCE:</b> The Jindal Melmoth Iron Ore Project will require a salvage yard and a waste storage area, etc.</p>	X



<b>NAME OF ACTIVITY</b> (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.)	<b>Aerial extent of the Activity</b> <b>Ha or m<sup>2</sup></b>	<b>LISTED ACTIVITY</b> (Mark with an <b>X</b> where applicable or affected).	<b>APPLICABLE LISTING NOTICE</b> (GNR 983, GNR 984 or GNR 985)	<b>WASTE MANAGEMENT AUTHORISATION</b> (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an <b>X</b> )
Establishment of a waste rock dump	600 ha	X	<b>National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category B (Scoping &amp; EIA), Activity 11</b> <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>  <b>RELEVANCE:</b> The Jindal Melmoth Iron Ore Project will require the establishment of a WRD.	X
Temporary waste storage facility.	Approximately 1 ha	Not Applicable	<b>National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category C (Norms &amp; Standards), Activity 1</b> <i>The storage of general waste at a facility that has the capacity to store in excess of 100m<sup>3</sup> of general waste at any one time, excluding the storage of waste in lagoons or temporary storage of such waste.</i>  <b>RELEVANCE:</b> 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	<b>National Environmental Management: Waste Act (No. 59 of 2008) R 921 of November 2013 – Category C (Norms &amp; Standards), Activity 2</b> <i>The storage of hazardous waste at a facility that has the capacity to store in excess of 80m<sup>3</sup> of hazardous waste at any one time, excluding the storage of hazardous waste in lagoons or temporary storage of such waste.</i>  <b>RELEVANCE:</b> 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><b>Steps to be taken to notify interested and affected parties</b> (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&amp;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><b>Table 1: Public Participation Process</b></p> <table border="1"> <thead> <tr> <th>Task</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td colspan="2"><b>Public participation process undertaken to date</b></td> </tr> <tr> <td colspan="2"><b>Pre-application Phase</b></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 <b>3 March 2021</b>. The purpose of this meeting was:</p> <ul style="list-style-type: none"> <li>to provide the DMRE with some background information on the proposed project;</li> <li>to discuss the proposed environmental assessment and permitting process; and</li> <li>To outline and obtain input from the DMRE on the planned public participation process.</li> </ul> </td> </tr> </tbody> </table>	Task	Description	<b>Public participation process undertaken to date</b>		<b>Pre-application Phase</b>		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 <b>3 March 2021</b>. The purpose of this meeting was:</p> <ul style="list-style-type: none"> <li>to provide the DMRE with some background information on the proposed project;</li> <li>to discuss the proposed environmental assessment and permitting process; and</li> <li>To outline and obtain input from the DMRE on the planned public participation process.</li> </ul>
Task	Description								
<b>Public participation process undertaken to date</b>									
<b>Pre-application Phase</b>									
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 <b>3 March 2021</b>. The purpose of this meeting was:</p> <ul style="list-style-type: none"> <li>to provide the DMRE with some background information on the proposed project;</li> <li>to discuss the proposed environmental assessment and permitting process; and</li> <li>To outline and obtain input from the DMRE on the planned public participation process.</li> </ul>								



<b>Application Phase</b>	
Environmental authorisation application submission	Submission of this NEMA environmental authorisation application to the DMRE.
<b>Notification of commenting authorities and I&amp;APs undertaken to date</b>	
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. <b>Appendix 7</b> 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.
Focused Meetings with the Traditional Authorities	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: <ul style="list-style-type: none"> <li>• to introduce the proposed project to the Traditional Councils;</li> <li>• to discuss the proposed environmental assessment and permitting process; and</li> <li>• to outline and obtain input from the Royal Entembeni Traditional Council on the planned public participation process.</li> <li>• 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).</li> </ul>
Background Information Document (BID) distribution	A BID (English and isiZulu) was <b>compiled by SLR and issued to I&amp;APs at the commencement of the</b> public participation process to I&APs – government departments, organs of state and traditional authorities on 17 June 2021. The BID provided: <ul style="list-style-type: none"> <li>• information about the proposed project;</li> <li>• information about the baseline environment;</li> <li>• information about the environmental assessment process (Scoping and EIA process);</li> <li>• information pertaining to potential biophysical, cultural, and socio-economic impacts; and</li> <li>• information on how I&amp;APs and commenting authorities can have input into the environmental assessment process.</li> </ul> <p>A registration and response form was attached to the BID, which provided I&amp;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&amp;APs registered on the project database on 17 June 2021. Copies of the BID were also made available on the SLR website (at <a href="https://slrconsulting.com/za/slr-documents">https://slrconsulting.com/za/slr-documents</a> and the</p>

		<p>data-free website (at <a href="http://slrpublicdocs.datafree.co">slrpublicdocs.datafree.co</a>). Emails and text messages containing a link to the SLR website and SLR data-free website, were also sent to all I&amp;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 <b>Appendix 7</b>.</p>
	Placement of newspaper advertisements	<p>Newspaper adverts (in English and isiZulu) were placed in:</p> <ul style="list-style-type: none"> <li>• The Mercury, 15 June 2021, English;</li> <li>• Eyethu Baywatch - 16 June 2021, English;</li> <li>• Isolezwe - 18 June 2021, isiZulu; and</li> <li>• Zululand Observer - 21 June 2021, English.</li> </ul> <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&amp;AP and provide comments. Refer to <b>Appendix 7</b> for copies of advertisement tear sheets.</p>
<b>Planned Public Participation</b>		
	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&amp;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 <a href="https://slrconsulting.com/za/slr-documents/">https://slrconsulting.com/za/slr-documents/</a>) and the SLR data-free website (at <a href="http://slrpublicdocs.datafree.co">slrpublicdocs.datafree.co</a>). 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&amp;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&amp;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&amp;APs registered on the database.</p>
<b>Information to be provided to Interested and Affected Parties.</b>	<p><b>Compulsory</b></p> <ul style="list-style-type: none"> <li>• The site plan;</li> <li>• List of activities to be authorised;</li> <li>• Scale and extent of activities to be authorised;</li> <li>• Typical impacts of activities to be authorised (e.g., surface disturbance, dust, noise, drainage, fly rock etc.);</li> <li>• The duration of the activity; and</li> <li>• Sufficient detail of the intended operation to enable them to assess what impact the activities</li> </ul>	



	will have on them or on the use of their land).
	<b>Other, Specify:</b> <a href="#">Not Applicable</a>
<b>Information to be required from Interested and Affected Parties.</b>	<p><b>Compulsory</b></p> <ul style="list-style-type: none"> <li>• To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions;</li> <li>• To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity;</li> <li>• To provide information on current land uses and their location within the area under consideration;</li> <li>• 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</li> <li>• 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).</li> </ul>
	<b>Other, Specify:</b> <a href="#">Not Applicable</a>

## 7. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION												
<p><b>Environmental attributes.</b> Describe how the Environmental attributes associated with the development footprint will be determined.</p>	<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&amp;APs and commenting authorities during the public participation process and as part of the review of the Scoping Report.</p>												
<p><b>Identification of impacts and risks.</b> (Describe the process that will be used to identify impacts and risks.</p>	<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&amp;APs and commenting authorities during the public participation process and the review of the Scoping Report.</p>												
<p><b>Consideration of alternatives.</b> 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>	<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>												
<p><b>Process to assess and rank impacts.</b> Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.</p>	<p>The proposed method for the assessment of issues is set out in <b>Appendix 9</b>. 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>												
<p><b>Contribution of specialist reports</b> Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.</p>	<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 <b>Appendix 10</b>. 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 border="1" data-bbox="496 1415 1469 1877"> <thead> <tr> <th data-bbox="496 1415 683 1444">Theme</th> <th data-bbox="683 1415 797 1444">Sensitivity</th> <th data-bbox="797 1415 1469 1444">Requirements</th> </tr> </thead> <tbody> <tr> <td data-bbox="496 1444 683 1602">Agriculture</td> <td data-bbox="683 1444 797 1602">Very High</td> <td data-bbox="797 1444 1469 1602">In accordance with the 'Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Agricultural Resources', an Agricultural Agro-Ecosystem Specialist Assessment will be undertaken during the EIA Phase of the proposed project.</td> </tr> <tr> <td data-bbox="496 1602 683 1724">Animal Species</td> <td data-bbox="683 1602 797 1724">High</td> <td data-bbox="797 1602 1469 1724">In accordance with the 'Protocol for the Assessment and Reporting of Environmental Impacts on Terrestrial Plant Species', a Terrestrial Animal Species Impact Assessment will be undertaken during the EIA Phase of the proposed project.</td> </tr> <tr> <td data-bbox="496 1724 683 1877">Plant Species</td> <td data-bbox="683 1724 797 1877">Medium</td> <td data-bbox="797 1724 1469 1877">In accordance with the 'Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Terrestrial Animal Species', a Terrestrial Plant Species Assessment will be undertaken during the EIA phase of the proposed project.</td> </tr> </tbody> </table>	Theme	Sensitivity	Requirements	Agriculture	Very High	In accordance with the 'Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Agricultural Resources', an Agricultural Agro-Ecosystem Specialist Assessment will be undertaken during the EIA Phase of the proposed project.	Animal Species	High	In accordance with the 'Protocol for the Assessment and Reporting of Environmental Impacts on Terrestrial Plant Species', a Terrestrial Animal Species Impact Assessment will be undertaken during the EIA Phase of the proposed project.	Plant Species	Medium	In accordance with the 'Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Terrestrial Animal Species', 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 'Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Agricultural Resources', an Agricultural Agro-Ecosystem Specialist Assessment will be undertaken during the EIA Phase of the proposed project.											
Animal Species	High	In accordance with the 'Protocol for the Assessment and Reporting of Environmental Impacts on Terrestrial Plant Species', a Terrestrial Animal Species Impact Assessment will be undertaken during the EIA Phase of the proposed project.											
Plant Species	Medium	In accordance with the 'Protocol for the Specialist Assessment and Minimum Report content requirements for Environmental Impacts on Terrestrial Animal Species', 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 be 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> <ol style="list-style-type: none"> <li>a. Landscape / Visual Impact Assessment</li> <li>b. Hydrology Assessment</li> <li>c. Noise Impact Assessment</li> <li>d. Traffic Impact Assessment</li> <li>e. Geotechnical Assessment</li> <li>f. Climate Change Impact Assessment</li> <li>g. Health Impact Assessment</li> <li>h. Socio-Economic Impact Assessment</li> <li>i. Ambient Air Quality Impact Assessment</li> </ol> <p>All Specialist Studies will be undertaken during the EIA phase of the proposed project.</p>		
<p><b>Determination of impact management objectives and outcomes.</b> 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.</p>	<p>The EAP and specialists will determine the impact management objectives and actions with consideration to the relevant standards and guidelines.</p>		

## 8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
<b>SEMA`s</b>				
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	
<b>National legislation</b>				
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.](#)



<b>ACTIVITIES</b> (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.)	<b>PHASE</b> (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	<b>SIZE AND SCALE</b> <b>(of Disturbance)</b> (volumes, tonnages and hectares or m <sup>2</sup> )	<b>TYPICAL MITIGATION MEASURES</b> (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	<b>COMPLIANCE WITH STANDARDS</b> (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)
<b>Site preparation and construction activities</b> – 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.	<b>Construction</b>	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"> <li>• Limit the extent of disturbed areas.</li> <li>• Limit site clearance to what is absolutely necessary for the new infrastructure.</li> <li>• Strip, handle, stockpile and re-use soil resources in line with site specific soil conservation and management plan.</li> <li>• Basic infrastructure design that is adequate to contain polluting substances.</li> <li>• Training of workers to prevent pollution.</li> <li>• Equipment and vehicle maintenance.</li> <li>• Effective waste management.</li> <li>• Undertake pre-construction surveys of the development footprints for species suitable for search and rescue operations.</li> <li>• Avoid sensitive areas as far as practically possible.</li> <li>• Obtain relevant permits prior to removal of protected species.</li> <li>• Implementation of an alien invasive species programme.</li> <li>• Limit emissions (dust, light, noise).</li> <li>• Training of employees on the value of biodiversity.</li> <li>• Zero tolerance for harming and harvesting fauna and flora.</li> <li>• Effective waste management and pollution</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• The removal of protected species in accordance with the National Forest Act and Regulations, No. 84 of 1998.</li> <li>• 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).</li> <li>• Compliance with the National Heritage Resource Act (No. 25 of 1999) in the event of any</li> </ul>

<b>ACTIVITIES</b> (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.)	<b>PHASE</b> (of operation in which activity will take place). State; Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.	<b>SIZE AND SCALE</b> (of Disturbance) (volumes, tonnages and hectares or m <sup>2</sup> )	<b>TYPICAL MITIGATION MEASURES</b> (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	<b>COMPLIANCE WITH STANDARDS</b> (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)
			prevention. <ul style="list-style-type: none"> <li>• Implementation of a biodiversity action plan to ensure that the undeveloped/disturbed areas within the property are properly conserved and maintained.</li> <li>• Provide noise berms where possible between activities and receptors.</li> <li>• Conduct noise monitoring in response to noise complaints</li> <li>• Plan project to avoid any heritage resources of significant importance.</li> <li>• Training of workers regarding the heritage and cultural sites that may be encountered and about the need to conserve these.</li> <li>• Fence off and limit access to any heritage and cultural sites that could be indirectly disturbed by mining activities.</li> <li>• In the event that heritage resources are identified, a chance find emergency procedure should be implemented.</li> <li>• Develop and implement procedures for recruiting, training and procurement that align with good industry practise.</li> <li>• Employ local people and procure goods and services locally as far as practically possible.</li> <li>• Effective communication to manage expectations with regard to employment</li> </ul>	chance finds. <ul style="list-style-type: none"> <li>• Annual updates of the financial provision in terms of the Financial Regulations GNR. 1147 of 2015, as amended.</li> <li>• 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.</li> <li>• IWUL in terms of the NWA for Section 21 water uses.</li> </ul>



<b>ACTIVITIES</b> (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.)	<b>PHASE</b> (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	<b>SIZE AND SCALE</b> <b>(of Disturbance)</b> (volumes, tonnages and hectares or m <sup>2</sup> )	<b>TYPICAL MITIGATION MEASURES</b> (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	<b>COMPLIANCE WITH STANDARDS</b> (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)
			and other opportunities. <ul style="list-style-type: none"> <li>Ensure that closure planning considerations address the re-skilling of employees for the downscaling, early closure and long-term closure scenarios.</li> </ul>	
<b>Mine Infrastructure</b> - 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"> <li>Limit the extent of disturbed areas.</li> <li>Limit site clearance to what is absolutely necessary.</li> <li>Strip, handle, stockpile and re-use soil resources in line with site specific soil conservation and management plan.</li> <li>Basic infrastructure design that is adequate to contain polluting substances.</li> <li>Training of workers to prevent pollution.</li> <li>Equipment and vehicle maintenance.</li> <li>Effective waste management.</li> <li>Avoid sensitive areas as far as practically possible.</li> <li>Obtain relevant permits prior to removal of protected species.</li> <li>Implementation of an alien invasive species programme.</li> <li>Limit emissions (dust, light, noise).</li> <li>Training of employees on the value of biodiversity.</li> <li>Zero tolerance for harming and harvesting</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> <li>The removal of protected species in accordance with the National Forest Act and Regulations, No. 84 of 1998.</li> <li>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</li> </ul>

<b>ACTIVITIES</b> (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.)	<b>PHASE</b> (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	<b>SIZE AND SCALE</b> (of Disturbance) (volumes, tonnages and hectares or m <sup>2</sup> )	<b>TYPICAL MITIGATION MEASURES</b> (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	<b>COMPLIANCE WITH STANDARDS</b> (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)
			fauna and flora. <ul style="list-style-type: none"> <li>• Effective waste management and pollution prevention.</li> <li>• Implementation of a biodiversity action plan to ensure that the undeveloped/disturbed areas within the property are properly conserved and maintained.</li> <li>• Provide noise berms where possible between activities and receptors.</li> <li>• Conduct noise monitoring in response to noise complaints</li> <li>• Plan project to avoid any heritage resources of significant importance.</li> <li>• Training of workers regarding the heritage and cultural sites that may be encountered and about the need to conserve these.</li> <li>• Fence off and limit access to the heritage and cultural sites that could be indirectly disturbed by mining activities.</li> <li>• In the event that heritage resources are identified, a chance find emergency procedure should be implemented.</li> <li>• Develop and implement procedures for recruiting, training and procurement that align with good industry practise.</li> <li>• Employ local people and procure goods and services locally as far as practically possible.</li> </ul>	1929:2010). <ul style="list-style-type: none"> <li>• Compliance with the National Heritage Resource Act (No. 25 of 1999) in the event of any chance finds.</li> <li>• Annual updates of the financial provision in terms of the Financial Regulations GNR. 1147 of 2015, as amended.</li> <li>• 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.</li> <li>• IWUL in terms of the NWA for Section 21 water uses.</li> </ul>



<b>ACTIVITIES</b> (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.)	<b>PHASE</b> (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	<b>SIZE AND SCALE</b> (of Disturbance) (volumes, tonnages and hectares or m <sup>2</sup> )	<b>TYPICAL MITIGATION MEASURES</b> (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	<b>COMPLIANCE WITH STANDARDS</b> (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"> <li>• Effective communication to manage expectations with regard to employment and other opportunities.</li> <li>• Ensure that closure planning considerations address the re-skilling of employees for the downscaling, early closure and long-term closure scenarios.</li> </ul>	
<b>Transportation</b> - 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"> <li>• Limit disturbed areas.</li> <li>• Suppress dust effectively.</li> <li>• Maintain equipment and vehicles in good working order.</li> <li>• Construct safe access points/intersections.</li> <li>• Educate employees (temporary and permanent) about road safety.</li> <li>• Enforce strict vehicle speeds.</li> <li>• Enforce strict rules with regard to taking regular breaks during long trips.</li> <li>• If a person or animal is injured by transport activities an emergency response procedure must be implemented.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• National road safety standards</li> </ul>
<b>Water Supply and Management</b> - 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"> <li>• Design and implement contamination containment measures.</li> <li>• Mine infrastructure will be constructed and operated so as to comply with the National Water Act No. 36 of 1998 and Regulation</li> </ul>	<ul style="list-style-type: none"> <li>• Compliance with GNR 704, June 1999 of the NWA for the separation of clean and dirty water systems, including exemption from GNR 704</li> </ul>

<b>ACTIVITIES</b> (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.)	<b>PHASE</b> (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	<b>SIZE AND SCALE</b> (of Disturbance) (volumes, tonnages and hectares or m <sup>2</sup> )	<b>TYPICAL MITIGATION MEASURES</b> (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	<b>COMPLIANCE WITH STANDARDS</b> (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"> <li>• Clean and dirty water systems will be separated.</li> <li>• Clean run-off will be diverted away from the site.</li> <li>• Dirty water will be contained.</li> <li>• Conduct surface water monitoring and implement remedial actions as required.</li> <li>• Effective equipment and vehicle maintenance.</li> <li>• Fast and effective clean-up of spills.</li> <li>• Effective waste management.</li> <li>• Education and training of workers.</li> <li>• Apply and operate in line with a water use license.</li> <li>• Effective rehabilitation to achieve post closure land use.</li> <li>• Conduct groundwater monitoring and implement remedial actions as required.</li> <li>• 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.</li> </ul>	for distances to watercourses and placing residue material in opencast mine excavations. <ul style="list-style-type: none"> <li>• IWUL in terms of the NWA for Section 21 water uses.</li> </ul>
<b>General and Hazardous Waste</b>	Construction/Operation	Volume to be	<ul style="list-style-type: none"> <li>• Design and implement contamination</li> </ul>	<ul style="list-style-type: none"> <li>• Compliance with GNR</li> </ul>



<b>ACTIVITIES</b> (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.)	<b>PHASE</b> (of operation in which activity will take place). State; Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.	<b>SIZE AND SCALE</b> (of Disturbance) (volumes, tonnages and hectares or m <sup>2</sup> )	<b>TYPICAL MITIGATION MEASURES</b> (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	<b>COMPLIANCE WITH STANDARDS</b> (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><b>Management</b> - 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.</p>		<p>determined as part of the EIA Process</p>	<p>containment measures.</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Design and implement contamination containment measures.</li> <li>• 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"> <li>- Clean and dirty water system will be separate.</li> <li>- Clean run-off will be diverted away from the site.</li> <li>- Dirty water will be contained.</li> <li>- Conduct surface water monitoring and implement remedial actions as required.</li> <li>- Effective equipment and vehicle maintenance.</li> <li>- Fast and effective clean-up of spills.</li> <li>- Effective waste management.</li> <li>- Education and training of workers.</li> <li>- Apply and operate in line with a water use license.</li> </ul> </li> </ul>	<p>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.</p> <ul style="list-style-type: none"> <li>• IWUL in terms of the NWA for Section 21 water uses.</li> </ul>

<b>ACTIVITIES</b> (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.)	<b>PHASE</b> (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	<b>SIZE AND SCALE</b> <b>(of Disturbance)</b> (volumes, tonnages and hectares or m <sup>2</sup> )	<b>TYPICAL MITIGATION MEASURES</b> (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)*	<b>COMPLIANCE WITH STANDARDS</b> (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.	





- Associated infrastructure to support the mine would include: a laboratory, rail loading facility, access and haul roads, electrical transmission line and sub-stations, water pipelines, stormwater management infrastructure, concentrate pipelines, offices, change house, workshops, and perimeter fencing (amongst others).
- Slurry generated from the processing plant would be disposed of to a tailing's storage facility (also part of a separate application).

3. EXTENT OF THE SITE: 201 700 000 m<sup>2</sup> North Block (PR 10644) is 8 467 ha and the South Block (PR 10652) is 11 703 ha in extent – Total 20 170 ha

4. EXTENT OF THE DEVELOPMENT AREA (m<sup>2</sup>): 19 000 000 m<sup>2</sup> (includes pit, WRD, plant area, access roads and pipelines)

**GPS CO-ORDINATES:** (Decimal format only)

SOUTH: EAST:

	Decimal Degrees	Degrees Minutes Seconds
<b>South Block West</b>	31,335458 -28,708644	31°20'7,649"E 28°42'31,117"S
<b>South Block East</b>	31,443515 -28,728624	31°26'36,656"E 28°43'43,046"S
<b>North Block</b>	31,522416 -28,596447	31°31'20,696"E 28°35'47,211"S

1:50 000 SHEET no:

Sheet No. 2831CB  
Sheet No. 2831CD  
Sheet No. 2831DA

1:10 000 SHEET no:

**B. PROPERTY DESCRIPTION:**

Name of property: Jindal Prospecting Rights, North and South Blocks

Title Deed No. Ingonyama Trust Lands

Erf/Lot/Farm No:

**South 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

**North Block**

Portion 3 and 4 of the Farm Reserve No. 11 15831

Portion 0 of the Farm Ntembeni 16921

GPS Co-ordinates:

See Appendix A

Street Address:

Melmoth Iron Ore Mine, approximately 16 km south & southeast of Melmoth

Local Municipality

Mthonjaneni Local Municipality

District Municipality

King Cetshwayo District Municipality



Traditional Authority Area Royal Entembeni Traditional Council	
Current zoning Ingonyama Trust Lands	Present use: Community land


<b>C. DEVELOPMENT TYPE:</b>					
<b>1. COMMENT REQUIRED IN TERMS OF SECTION s41(1)</b> (tick the appropriate box/boxes)					
Linear Development/Barrier exceeding 300m in length e.g. road, pipe/power line, trench, canal or wall	<input checked="" type="checkbox"/>				
Other similar form of linear development/barrier exceeding 300m in length	<input checked="" type="checkbox"/>				
Construction of a bridge or similar structure exceeding 50m in length	<input type="checkbox"/>				
Any development exceeding 5 000m <sup>2</sup> in extent or any other category of development provided for in regulations	<input checked="" type="checkbox"/>				
Any other activity which would change the character of an area of land or water exceeding 10 000m <sup>2</sup> in extent	<input checked="" type="checkbox"/>				
Any development involving three or more existing erven or sub-divisions thereof	<input type="checkbox"/>				
Any other activity involving three or more existing erven or sub-divisions thereof	<input type="checkbox"/>				
Any development or other activity involving three or more existing erven or sub-divisions thereof which have been consolidated within the past 5 years	<input type="checkbox"/>				
Any development or other activity the costs of which will exceed a sum set out in the regulations	<input type="checkbox"/>				
Re-zoning of a site exceeding 10 000m <sup>2</sup>	<input checked="" type="checkbox"/>				
<b>2. DEVELOPMENTS THAT TRIGGER NEMA AND OTHER LEGISLATION</b>					
<b>RESPONSE REQUIRED IN TERMS OF s41(8)</b> (tick the appropriate box/boxes)					
BID	<input checked="" type="checkbox"/>	BAR	<input type="checkbox"/>	EIA	<input checked="" type="checkbox"/>
EMP	<input checked="" type="checkbox"/>	WULA	<input checked="" type="checkbox"/>	MPRDA	<input checked="" type="checkbox"/>
OTHER (describe)	NEM:WA				

<b>D. IMPACT ON HERITAGE RESOURCES:</b>	
To your knowledge would the Development impact on any known heritage resources protected in terms of the KZN Amafa and Research Institute Act (5/2018), or is the development located in the vicinity of any of the above? If yes, the Heritage Practitioner must create a site on SAHRIS pinpointing the position of the heritage resource/s discovered. (tick the appropriate box/boxes below)	
s37 - Structures or part thereof that can reasonably be expected to be over 60 years of age	<input checked="" type="checkbox"/>
s38 - Graves of victims of conflict,	<input type="checkbox"/>
s39 - Informal and private burial grounds (traditional graves or graves outside of a formal cemetery e.g. a farm cemetery that are over 60 years of age).	<input checked="" type="checkbox"/>
s40 - Battlefield sites, archaeological sites, rock art sites, palaeontological sites, historic fortifications, ruins over 100 years old, meteorite or meteorite impact sites and any objects or ecofacts associated therewith	<input checked="" type="checkbox"/>
s42 - Protected areas (is the site within a known protected area?)	<input type="checkbox"/>
s43 - Specially protected heritage resources are listed in Schedule of Heritage Resources	<input type="checkbox"/>
s44 - Heritage Landmarks including the site on which they are situated	<input type="checkbox"/>
s45 - Provincial Landmarks and the site on which they are situated (state owned)	<input type="checkbox"/>
s46 - Graves of members of the Royal Family listed in Schedule of Heritage Resources	<input type="checkbox"/>

s47 - Battlefield site, public monument or memorial listed in the Schedule of Heritage Resources and any public monument defined in the NHRA and protected in terms of Section 37 of the NHRA, & Section 47 of the KZN Amafa and Research Institute Act (5/2018)	
s49 - Artefacts, or collections thereof on which Heritage Object status has been conferred	

## E. CONTACT DETAILS


<b>1. APPLICANT'S DETAILS (OWNER OF PROPERTY)</b>	
NAME: Jindal Iron Ore (Pty) Ltd	
POSTAL ADDRESS: 22 Kildoon Road, Bryanston, Johannesburg	
	POST CODE: 2021
TEL 011 706 8420	FAX/EMAIL <a href="mailto:debratna.nag@jindalafrika.com">debratna.nag@jindalafrika.com</a>

DECLARATION BY OWNER	
I, <u>DEBRATNA NAG</u>	
(full names of owner/person authorized to sign on behalf of the owner)	
undertake strictly to observe the terms, conditions, restrictions, by-laws and directions under which the KZN Amafa and Research Institute may issue the comment to me.)	
Signature <u></u>	
Place <u>JOHANNESBURG</u>	Date <u>17/02/2022</u>

## 2. DELEGATED AUTHORITY (The name of the person authorized to act on behalf of a company or institution – Power or Attorney/proof of authorization to be attached)

NAME	
TEL	FAX/EMAIL


## 3. DEVELOPER'S DETAILS

NAME(Company/institution/individual) Jindal Iron Ore (Pty) Ltd	
POSTAL ADDRESS 22 Kildoon Road, Bryanston, Johannesburg	
	POST CODE 2021
TEL 011 706 8420	FAX
CELL +27 82 470 5023	EMAIL <a href="mailto:debratna.nag@jindalafrika.com">debratna.nag@jindalafrika.com</a>
SIGNATURE <u></u>	DATE <u>17/02/2022</u>

## 4. CONSULTANTS' DETAILS

NAME(Company/institution/individual) SLR Consulting (South Africa) (Pty) Ltd eThembeni Cultural Heritage Management cc.	
POSTAL ADDRESS Suite1 - Building D, Monte Circle 178 Montecasino Boulevard Fourways Johannesburg	
	POST CODE 2191
TEL +27 11 467 0945	FAX
CELL +27 72 850 0801	EMAIL <a href="mailto:khamilton@slrconsulting.com">khamilton@slrconsulting.com</a>



SIGNATURE  	DATE 16/02/2022
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**F. SUBMISSION FEE: R800.00 (subject to annual increment on the 1 April)**

The submission fee is payable to the **KZN Amafa and Research Institute** by bank deposit/internet banking (EFT) and proof of payment must be submitted with the application.

**ACCOUNT DETAILS:**

**ABSA BANK: Branch:** ULUNDI    **Bank Code:** 630330

Account in the name of **AMAFA AKWAZULU-NATALI**

Account No. 40-5935-6024

USE SAHRIS ID AS REFERENCE

**G. PUBLIC PARTICIPATION:** (Contact details of Interested and Affected Parties Consulted - written opinion to be attached to form and drawings to be signed by I & A P. See Guidelines)

A public participation process is currently underway. Minutes and attendance registers of relevant traditional council meetings will be uploaded to the SAHRIS case file as these are concluded.

Material to the HIA study, consultation meetings with relatives associated with graves over 60 years will be submitted during permit applications for exhumation and reburial, or, wherever possible, mitigation measures to leave graves in situ and buffered from mining activities. Affected families' consent to such mitigation will also be uploaded to SAHRIS.

**H. CHECKLIST OF DOCUMENTATION SUBMITTED**

HARD COPY APPLICATION FORM (COMPLETED & SIGNED BY OWNER, DEVELOPER & CONSULTANT)	
APPLICATION FORM UPLOADED TO SAHRIS	✓
MOTIVATION	✓
SITE PHOTOGRAPHS/CASE IMAGES	✓
1:50 000 MAP & SATELLITE AERIAL VIEW	✓
KML FILE MAP	✓
SITE PLAN SHOWING ALL FEATURES & HERITAGE RESOURCES	Pending HIA
DEVELOPMENT PLAN SHOWING ALL FEATURES & HERITAGE RESOURCES SUPERIMPOSED THEREON	Pending HIA
PROOF OF PROFESSIONAL ACCREDITATION (e.g. copy of accreditation card/certificate)	✓
PROOF OF PUBLIC PARTICIPATION	See above
ENVIRONMENTAL IMPACT ASSESSMENT	Pending
HERITAGE IMPACT ASSESSMENT	Pending
CONSENT LETTER FROM THE OWNER	Pending
LETTER OF APPOINTMENT OF CONSULTANT	✓
<b>PROOF OF PAYMENT OF SUBMISSION FEE (EFT/BANK DEP/AMAFA CARD)</b>	✓

# KWAZULU-NATAL AMAFA AND RESEARCH INSTITUTE

THE KZN PROVINCIAL HERITAGE RESOURCES AUTHORITY  
(accredited in terms of the National Heritage Resources Act)

## GUIDELINES FOR THE PREPARATION OF APPLICATIONS FOR COMMENT FROM THE PROVINCIAL HERITAGE RESOURCES AUTHORITY ON DEVELOPMENT PROPOSALS IN TERMS OF SECTION 41 OF THE KZN AMAFA & RESEARCH INSTITUTE ACT (5 OF 2018) AND THE NATIONAL HERITAGE RESOURCES ACT (SECTION 38).

Please detach from the form before submission

**NOTE:** The provisions of s38 of the NHRA have been incorporated verbatim into s41 of the **KZN AMAFA & RESEARCH INSTITUTE ACT (5 OF 2018)**.

### APPLICATION FORMS

All applications must be made on the relevant official application form and must be accompanied by the relevant supporting documentation.

- A. DEVELOPMENT DETAILS:** Describe the proposed development and motivate and motivate the need and desirability for such a development. Details must be given of the work to be carried out – do not merely refer to the documents submitted.
- B. PROPERTY:** Include the name of the development where applicable. The FARM NAME is the key information and is used as a tracking device in the filing system. Where development is in an urban area the street address is key and if several street numbers apply to the site, all the numbers must be included.

GPS CO-ORDINATES: The KZN Amafa and Research Institute only accepts GPS co-ordinates in decimal format. Other formats may be provided in addition to the decimal format but not to the exclusion of the decimal format.

- C. DEVELOPMENT TYPE:** development applications are made either in terms of:  
s41(1) – check the list under C 1 – or  
s41(8) – check the list under C 2.
- D. HERITAGE RESOURCES:** Identify any heritage resources uncovered through initial scoping or through the Heritage Impact Assessment.

Create a site on the step/page 1 of the application on SAHRIS and pinpoint the positions of the resources on the google map provided.

When heritage resources have been found the Institute will require that a Heritage Impact Assessment is carried out by a practitioner registered with the Institute and accredited to carry out such assessments. When appointing the Heritage Practitioner stipulate that the HIA must be uploaded to the application on SAHRIS and that a hard copy must be provided to the Institute.

**NB:** Section 39 of the KZN Amafa and Research Institute Act (5/2018) has been brought in line with the NHRA and limits the protection of traditional graves to those over 60 years of age.

- E. CONTACT DETAILS:** full contact details of all major players in the development are required.
- F. DECLARATION:** The owner must sign the form and any accompanying documentation and must consent to submissions by a third party/agent.
- G. A SUBMISSION FEE** – a service fee determined by the Council of the Institute is payable on submission of all applications. **THE APPLICATION WILL NOT BE REGISTERED AS SUBMITTED IF THE PROOF OF PAYMENT IS NOT ATTACHED. USE THE SAHRIS CASE ID AS THE REFERENCE.**
- H. PUBLIC PARTICIPATION:** WHERE GRAVES ARE PRESENT COMMUNITY CONSULTATION MUST BE CARRIED OUT AND EVERY EFFORT MADE TO LOCATE AND CONSULT THE FAMILIES OF THE DECEASED PRIOR TO SUBMISSION OF THIS APPLICATION.

The applicant will be notified of the level of public participation required and will have to bear the costs thereof. Neighbors, Ward Councillors, and Heritage Groups should be consulted in the case of demolition applications. All documentation submitted is retained for record purposes and interested and affected parties may apply to view the documentation.

### **DOCUMENTS REQUIRED IN SUPPORT OF THIS APPLICATION**

- 1. SUPPORTING DOCUMENTATION: Only Heritage Practitioners registered with the Institute may compile the HIA and related supporting documentation. Permits will require their overseeing the work. Where architectural drawings are required, they must be authored by SACAP registered professionals.**
  - 1.1. PHOTOGRAPHS OF EXISTING FEATURES, STRUCTURE/S ARCHAEOLOGICAL REMAINS, GRAVES, ETC AND THEIR SURROUNDINGS:**

Photographs that clearly illustrate the features of the affected site relevant to the application must be submitted.
  - 1.2. SITE PLAN:** The site plan must be drawn in accordance with the approved surveyor's diagram of the site and must show: scale; the north point; the erf/property/farm number of the site; the location of the site and any structures on it in relation to surrounding roads, buildings and other features; existing buildings, structures, and pools on the site (coloured grey or uncoloured); proposed work (coloured red) and buildings or portions of buildings proposed for demolition (in dotted lines); and the extent of the declared area (in the case of a proclaimed property). Heritage resources must be clearly marked on the plan.
  - 1.3. KML MAP FILE AND AERIAL OR SATELLITE VIEWS OF THE SITE** that clearly illustrate the features of the affected site relevant to the application must be submitted.
  - 1.4. 1:50 000 MAP OF THE SITE** that clearly illustrates the features of the affected site relevant to the application must be submitted.
  - 1.5. ENVIRONMENTAL IMPACT ASSESSMENT** where required the EIA must be compiled in accordance with standards set out in regulations under the environmental legislation.
  - 1.6. HERITAGE IMPACT ASSESSMENTS** must be submitted where any Heritage Resources are found. These reports must comply with the standards set out by the South African Heritage Resources Agency (go to [www.sahra.org.za](http://www.sahra.org.za) to download the standards) and may only be compiled by practitioners who have registered their accreditation for this work with the Institute. If the HIA is not submitted with the application, the Institute will notify the applicant of the need to submit an HIA if there is reason to believe that heritage resources will be affected by the development.
- 2. SUBMISSION OF APPLICATIONS:** Application forms can be downloaded from [www.heritagekzn.co.za](http://www.heritagekzn.co.za) – look under the “Permits” tab - download forms – Form J. Electronic submissions must be uploaded to the SAHRIS system operated by the South African Heritage Resources Agency [www.sahra.org.za](http://www.sahra.org.za). The application must also be submitted in hard copy delivered to 195 Langalibalele Street, Pietermaritzburg, 3201 OR posted to Box 2685, Pietermaritzburg, 3200. In the case of a failure of the SAHRIS system the application can be emailed to [archaeology@amafapmb.co.za](mailto:archaeology@amafapmb.co.za) and [bernadetp@amafapmb.co.za](mailto:bernadetp@amafapmb.co.za).

**When submitting on SAHRIS note that you must still check Section 38 under the case type and KZN – Amafa** for the Provincial Heritage Resources Authority.

The applicant is the “owner” and the Assessor is the “Consultant” and the correct fields must be completed.

The Consent Letters allowing a developer to act on behalf of the owner or the Consultant to upload the case to SAHRIS must be placed in the correct boxes which are blocked from public view.

The proof of payment must also be loaded to the designated box to prevent members of the public obtaining banking details, etc from the document.
- 3. PROCESSING OF APPLICATIONS:** applications are processed in the order in which they are received, except during the December/January holiday break. The Institute will receipt the application and alert the applicant to any missing information within 2 weeks of submission. Allow 90 days for processing of complex applications as these may be submitted to external reviewers. Lobbying of external reviewers will disqualify the application. Written responses to applications will be uploaded to SAHRIS. Telephonic or e-mails enquiries will not be responded to.

**\*PLEASE NOTE: INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED. Allow 90 days from the receipt of all required documentation**



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## APPENDIX A: JINDAL MIOP PROPERTY CO-ORDINATES

	Decimal Degrees	Degrees Minutes Seconds
South Block West	31,335458 -28,708644	31°20'7,649"E 28°42'31,117"S
South Block East	31,443515 -28,728624	31°26'36,656"E 28°43'43,046"S
North Block	31,522416 -28,596447	31°31'20,696"E 28°35'47,211"S

#### Farm Name and Portion Numbers

<b>Black Eyes 13385</b>		
Remaining Extent	31,398958 -28,737057	31°23'56,249"E 28°44'13,406"S
Portion 1	31,388487 -28,717990	31°23'18,552"E 28°43'4,763"S
Portion 2	31,400613 -28,716427	31°24'2,206"E 28°42'59,136"S
Portion 3	31,396969 -28,726750	31°23'49,088"E 28°43'36,301"S
Portion 4	31,413551 -28,756111	31°24'48,783"E 28°45'22"S

<b>Goedeloof 6106</b>		
Remaining Extent	31,316077 -28,700990	31°18'57,877"E 28°42'3,564"S
Portion 1	31,341251 -28,698971	31°20'28,504"E 28°41'56,297"S
Portion 2	31,332488 -28,710571	31°19'56,958"E 28°42'38,057"S
Portion 3	31,336807 -28,706383	31°20'12,507"E 28°42'22,979"S

<b>Kromdraai 6110</b>		
Remaining Extent	31,463666 -28,706724	31°27'49,198"E 28°42'24,206"S

<b>Wilderness 6107</b>		
Portion 3	31,373888 -28,724835	31°22'25,996"E 28°43'29,404"S
Portion 4	31,372558 -28,733184	31°22'21,208"E 28°43'59,462"S
Portion 5	31,373170 -28,736291	31°22'23,413"E 28°44'10,646"S
Portion 6	31,370891 -28,742952	31°22'15,209"E 28°44'34,629"S
Portion 7	31,374270 -28,733227	31°22'27,371"E 28°43'59,617"S
Portion 8	31,369821 -28,746584	31°22'11,355"E 28°44'47,702"S
Portion 12	31,355628 -28,738887	31°21'20,26"E 28°44'19,994"S
Portion 13	31,375317 -28,718578	31°22'31,141"E 28°43'6,882"S
Portion 14	31,345982 -28,725472	31°20'45,534"E 28°43'31,7"S
Portion 15	31,356200 -28,707828	31°21'22,319"E 28°42'28,18"S
Portion 16	31,368005 -28,715459	31°22'4,819"E 28°42'55,653"S

<b>Vergelegen 6104</b>		
Portion 0	31,300356 -28,691365	31°18'1,282"E 28°41'28,913"S

#### Reserve No. 11 No. 15831

Portion of RE **I have only Portions 2,3,4. No Remaining Extent**

#### North Block

##### Farm Name and Portions

<b>Reserve No. 11 15831</b>		
Portion 3	31,522397 -28,524232	31°31'20,629"E 28°31'27,237"S
Portion 4	31,557113 -28,572138	31°33'25,606"E 28°34'19,698"S

<b>Ntembeni 16921</b>		
Portion 0	31,502911 -28,689624	31°30'10,48"E 28°41'22,645"S

#### 1:50 000 Topos

Sheet No. 2831CB

Sheet No. 2831CD

Sheet No. 2831DA

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## APPENDIX B: MOTIVATION



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## NEED & DESIRABILITY OF THE PROJECT

The key components of the Need and Desirability Guideline are:

### **Ecological Sustainable Development and Use of Natural Resources**

The proposed Jindal MIOP site is a 'greenfield' site and outcomes from biodiversity studies have indicated that the project area identified for the placement of the Jindal MIOP is associated with some species of conservation concern (SCC). The expansion of the South East Pit and WRD could result in the loss of Moist

Coast Hinterland Grassland (Endangered) and Dry Coast Hinterland Grassland (Vulnerable). However, given the nature of the grazing across the sub-region these grasslands could to some extent already be degraded/transformed. A detailed assessment delineating the grasslands and determining their current status will need to be undertaken. In addition, comment on the issues of veld management to maintain the grasslands is required. Ongoing engagement with local stakeholders and the development of a sustainable grassland management programme will be critical in ensuring that remaining intact primary grassland is not further degraded through increased anthropogenic pressures such as grazing and too frequent burning. It will also be important to combat alien plant invasions associated with the edge effects created through both the mine development and overgrazing with the implementation of a comprehensive alien plant control programme.

In addition to the potential impacts on biodiversity, the mining operations will require water for the processing plant, dust control, for vehicle wash down and for the change house and office use. It is currently anticipated that makeup water would be acquired from the KZN bulk water supply authority. A water supply analysis will be undertaken as part of the Jindal MIOP and EIA process which will determine water supply and demand. Water requirements are likely to reduce as the pit deepens due to the reuse of water that collects within the pit.

### **Promoting Justifiable Economic and Social Development**

The Mining Charter, 2018, was gazetted in September 2018 and is envisaged as a tool for driving transformation of the mining and minerals industry. At its core, the Mining Charter is premised on the conviction that the mineral wealth of the country belongs to all citizens and those that are located close to the mineral resources should derive socio-economic benefit from extraction and processing. Jindal, as with all other mining companies in South Africa, will be bound to compliance with this Mining Charter.

In addition, the South African National Development Plan aims to eliminate poverty and reduce inequality by 2030. The proposed Jindal MIOP can contribute towards the realisation of economic development and inclusive growth through revenue and tax generation and the creation of employment opportunities. Through the implementation of the Social and Labour Plan (SLP), the proposed project can positively contribute to the Local Economic Development (LED) of the Mthonjaneni Local Municipality (LM), which in turn should deliver benefit to the communities directly affected by the establishment of the project. Importantly, the proposed Jindal MIOP must take measures to limit any negative impacts on agriculture and tourism development, as these are both considered vital sectors of the municipal economy.

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## APPENDIX C: 1:50 000 MAP AND SATELLITE AERIAL VIEW

	Decimal Degrees	Degrees Minutes Seconds
South Block West	31,335458 -28,708644	31°20'7,649"E 28°42'31,117"S
South Block East	31,443515 -28,728624	31°26'36,656"E 28°43'43,046"S
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#### 1:50 000 Topos

Sheet No. 2831CB

Sheet No. 2831CD

Sheet No. 2831DA



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## APPENDIX D: PROOF OF PROFESSIONAL ACCREDITATION



Association of Professional Heritage Practitioners

# MEMBERSHIP CERTIFICATE

THIS CERTIFIES THAT

**LEN VAN SCHALKWYK**  
**MEMBERSHIP NUMBER: 0071**

has been accredited as a

**PROFESSIONAL HERITAGE PRACTITIONER (PHP)**

This membership is subject to the *Standards for Accreditation* and *Code of Conduct*, referred to in Sections 2 and 3 of the APHP Constitution respectively. The definition of a PHP may be found at: [www.aphp.org.za/membership](http://www.aphp.org.za/membership)

Please contact us via [info@aphp.org.za](mailto:info@aphp.org.za) should further information be required.

**THIS CERTIFICATE IS VALID FROM 1 JUNE 2019 – 1 JULY 2020**



CHAIRPERSON

[Issued by the Association of Professional Heritage Practitioners Executive Committee]

Image Source: Aloe plant

Association of Professional Heritage Practitioners  
[info@aphp.org.za](mailto:info@aphp.org.za)  
[www.aphp.org.za](http://www.aphp.org.za)

# << archaeologists

THE ASSOCIATION OF SOUTHERN AFRICAN PROFESSIONAL ARCHAEOLOGISTS

## CERTIFICATE OF MEMBERSHIP

is hereby to confirm that

**LEN**

**VAN SCHALKWYK**

is a professional member (nr 165) of the Association of Southern African Professional Archaeologists (ASAPA) and is in good standing with the organisation.

He also holds the following CRM accreditations:  
Principal Investigator: Grave relocation, Iron Age, Stone Age



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**SARAH WURZ**  
CHAIR



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**LU-MARIE FRASER**  
MEMBERSHIP SECRETARY



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## APPENDIX E: LETTER OF APPOINTMENT OF CONSULTANT



# Project Purchase Order

**SLR Consulting (South Africa) (Pty) Ltd**  
Vat Number: 4630242198

**Date:** 12 March 2021  
**PO Number:** JBKH4426719  
**Issuing Office:** Johannesburg  
P O Box 1596  
Cramerview  
South Africa  
2060  
Tel: +27 11 467 - 0945  
Fax: +27 11 467 - 0978

**Accounts Department**  
P O Box 1596  
Cramerview  
South Africa  
2060  
**Tel:** +27 (0) 11 467 - 0945  
**Fax:** +27 (0) 11 467 - 0978  
**E-mail:** accountsza@slrconsulting.com

**Order Contact person in Office:** Kate Hamilton  
**SLR Project (Job) Number:** 720.10023.00001  
**Project Phase:** 0013

**Supplier Details:**

eThembeni Cultural Heritage Management  
Vat Registration No.: Unknown  
Box 20057  
ASHBURTON  
Pietermaritzburg  
3213

**Contact Person:** Len van Schalkwyk  
**Supplier Tel:** 082 655 9077  
**E-mail:** thembeni@iafrica.com  
**Attention:** Len van Schalkwyk

**Project Name, Details & Description:**

Melmoth Iron Ore Project

Description / Item	Price	Additional Comments
Cultural heritage assessment	0	
		<input type="checkbox"/>

Subtotal excl. VAT  
Vat @ 15%  
Subtotal incl. VAT



The currency of this order is:  
**South African Rand (ZAR)**

Invoices are to be rendered to Accounts Department and to office of issue otherwise delay in payment will result.  
Please reference PO number on all invoices. Statements are to be rendered to the accounts department

Unless agreed in writing otherwise, this purchase order is issued in terms of the attached condition of agreement with companies supplying professionals and /or contract and / or general services to: SLR Consulting (South Africa) (Pty) Ltd

Electronically authorised and signed by: Kate Hamilton

WS

APPENDIX A: ACCEPTANCE FORM

I LEONARD VAN SHAKUYK in my capacity as DIRECTOR confirm that I am duly authorised to accept this proposal on behalf of Ethembeni Cultural Heritage and hereby notify SLR of our acceptance of this appointment.

Signed at ROSHARUTON  
[Signature] Dated 19 March 2021

Signature [Signature]  
(Sign here in full and initial all preceding pages)

Please return the signed copy of this letter and SLR's Standard Terms and Conditions (Appendix C) to Kate Hamilton at [khamilton@slrconsulting.com](mailto:khamilton@slrconsulting.com).



**CONDITIONS OF AGREEMENT WITH CONTRACTORS SUPPLYING PROFESSIONAL AND/OR CONTRACTING SERVICES**

**DEFINITIONS:**

- "The Consultant" means the SLR Company as referred to on the Order form
- "The Supplier" means the specialist company as referred to on the Order form
- "The Project" as referred to on the Order form
- "The Client" means the party/company that SLR supplies services to directly

**CONDITIONS OF AGREEMENT:**

**1 Terms of Contract**

The terms hereof shall form part of and apply to the contract and all future contracts or other agreements entered into unless specifically excluded or amended by the parties, such exclusions or amendment to be in writing.

Unless otherwise specifically stipulated in writing to the contrary, the terms hereof shall supersede and prevail over any terms and conditions contained in any documents submitted by the supplier.

**2 General Conditions**

**2.1 Copyright**

All documents (reports, drawings, photographs) and information provided by either or both SLR and their Clients (a) enjoy copyright protection; (b) may not be reproduced or transmitted in any form or by any means whatsoever, to any person or entity, without the prior written permission of the both SLR and their Client

The use of any work, documents, photographs, drawings, information etc., on any project undertaken for SLR, for promotional purposes by the Supplier must receive approval from both SLR and the applicable Client.

**2.2 Confidentiality**

All information and documents are to be treated as strictly confidential and shall not be released to third parties unless express permission is given by both the Client and SLR.

**2.3 Fee for Professional Services**

The Supplier is required to provide a breakdown of their Professional Services for each particular project.

**2.4 Variation/Additional services**

Any variation to this Agreement shall only be of force and effect if agreed upon between the Parties and recorded in writing and signed by both Parties. Prior to rendering these Sub-consultancy Services or variation orders the Parties shall agree in writing on the additional remuneration to be paid by SLR for such services.

**2.5 Disbursements and Expenses**

The cost of bought out items by the Supplier (e.g. drillers, piezometer installation, laboratory test work, instrumentation installation, survey, etc.) and other suppliers that the Supplier may use must be itemised and detailed. The percentage mark ups, if any, applied to these services or bought in items must be stated.

Any mark-up must be applied to the price of the service excluding VAT.

**2.6 Submission of Invoices**

Unless agreed otherwise, all Supplier's invoices will be submitted monthly for all work completed up to and including the invoice date. Unless otherwise agreed with the SLR Project Manager, the supplier's invoices must be submitted to SLR on or before the 24th day of each month so that the Supplier's invoice can be entered into the SLR system for invoicing at month end. Should this date be missed the Supplier's invoice(s) can only be invoiced to the Client in the following month end.

The Supplier's invoices must provide a detailed breakdown of the Professional fees and disbursements incurred in each month for carrying out the work for each particular project. The Supplier MUST state the date, Supplier invoice number, SLR Order number, Supplier VAT number (if applicable), SLR VAT number (if applicable), Supplier's banking details (bank, account name, account number, branch name and number) on each and every invoice submitted, failing which the invoice will not be processed and returned to the Supplier.

The following additional documentation must accompany the Supplier's invoice:

- a) A covering letter identifying the project, the responsible SLR project manager, stating the work undertaken in the previous month;
- b) A budget control sheet providing detail of all invoices submitted to date, the cumulative amount invoiced to date and the budget remaining on submission of each invoice.

**2.7 VAT**

The Supplier is required to show VAT where applicable as a separate item on all invoices submitted.

**2.8 Payment of Supplier's Invoices**

The Supplier will only be paid when SLR is paid by the Client. No advance payment under any circumstances will be considered, unless there is an express agreement with SLR and the Client for advance payment for services, in which case payment will immediately be passed on to the Supplier within the time frame stated below.

On receipt of the relevant payment from the Client for the invoiced services, SLR will make every endeavor to pay the Supplier within 30 days.

No interest on outstanding payments will be made by SLR due to the Client's inability to pay the SLR invoices timeously.

The payments by SLR to the supplier in accordance with this Agreement shall constitute the only payments to the supplier in connection with this Agreement and shall be inclusive of all costs expenses and overhead costs of every kind incurred by the supplier in the performance of the sub-consultancy services.

SLR may deduct from any payment due to the supplier any amounts reasonably disputed by SLR or for which it is demonstrated and agreed that it is owed to SLR by the supplier or which represents costs or damages incurred by SLR as a result of any delay by the supplier in the execution or completion of the sub-consultancy services and the enforcement by the client of any penalty provision of the agreement between SLR and the client.

The amounts and currency to be paid in terms of this Agreement shall be as per the order.

**2.9 Professional Liability**

The Supplier must provide proof to SLR of their professional indemnity insurance in the form of a certificate of currency indicating the value of the indemnity, the scope of the insurance and any qualifications, the name of the insurer and the expiry date of the insurance.

If, at the request of the Client, the Supplier is required to obtain additional professional indemnity insurance for a particular project, then the Supplier in conjunction with SLR will co-operate with the Client to obtain such increased or special coverage for the Project.

The Supplier accepts all liability for his work (and his sub-contractors) and indemnifies SLR for any damages claimed by the Client against SLR as a result of SLR's reliance upon the Supplier's work to the extent that the damage was caused by any unlawful, wrongful or negligent act, error, omission or default by the Supplier.

The Sub-consultant shall indemnify SLR and the Client against each and every liability which SLR or the Client may incur to any other person whatsoever and against the adverse effects of all claims, including claims by third parties, to the extent that the same may arise as a result of the Sub-consultant's breach of its obligations, delict, warranty or otherwise. The Sub-consultant shall maintain the necessary insurance to cover its obligations and liabilities under this Agreement.

To the maximum extent permitted by law, and subject to the provisions of any written or unwritten law of any governing jurisdiction, the operation of which cannot be excluded, restricted or modified by agreement the liability of the Supplier, its employees, officers and directors to SLR, arising out of the performance or non-performance of the Services, whether under law of contract (including but not limited to indemnities), or (including but not limited to negligence) or otherwise, shall be limited in aggregate to the cost of rectifying the works/services and any damages associated with the Project, or the amount of twice the fee value as associated with the Supplier appointment for the Project, whichever is the greater

**2.10 Validity**

All proposals submitted by the Supplier must indicate a validity date after which the proposal becomes null and void. This validity period cannot be less than 60 days, unless otherwise negotiated with SLR

The cost of services provided by the Supplier must remain valid for the duration of each particular project.

**CONDITIONS OF AGREEMENT: (Continued)**

*WS*

**2.11 Written Order**

A signed SLR written order, or as a minimum a SLR Order number must be received by the Supplier before work can commence.

The supplier is required to carry out the work strictly in accordance with the agreed scope of work as per the order. Any deviation or addition to the scope of work must be formally motivated by the Supplier and authorized by SLR prior to the work commencing. Supplier's invoices for un-approved out of scope work will be rejected.

**2.12 Termination of Services**

In the event of breach by the Supplier of its obligations under this Agreement, which the Supplier fails to remedy within 7 (seven) days or, otherwise agreed to by both parties in writing, after receiving notice from SLR specifying the breach and requiring its remedy, then SLR may at any time terminate this Agreement forthwith by notice to the Supplier.

Should the Client request SLR to terminate the services of the Supplier due to unsatisfactory work during the course of a project, the Supplier shall have no recourse or claim against SLR whatsoever.

SLR will be entitled to terminate the agreement in the event of the Supplier being declared bankrupt, insolvent or commits any deed of fraud.

**2.13 Arbitration**

Any dispute between the Parties which cannot be resolved between the Parties through negotiations shall be referred by either Party to a single arbitrator to be finally settled by arbitration under the rules of the Arbitration Foundation of South Africa (AFSA). The arbitration shall be conducted in Pretoria. Any reference to arbitration shall not relieve either party from any liability for the due and punctual performance of its obligations under this Agreement.

**2.14 Domicilium**

The Parties choose and indicate as their domicilium citandi et executandi for the sending of correspondence and serving of notices and pleadings arising from this agreement the addresses stated opposite their names respectively:

Physical Address:	SLR:	Postal Address:	Supplier (please add address):
Suite 1 Building D Monte Circle Fourways Gauteng South Africa 2191	P O Box 1596 Cramerview South Africa 2060		7 DEWY CRESCENT ROTHBURTON 3217 W. Sanduzi, KZN.

**2.15 Duty of Care and Environment**

The Sub-consultant undertakes to exercise the necessary skill, care and diligence in rendering the Sub-consultancy services.

The Supplier shall perform its obligations in terms of this Agreement having due regard for the possible impact that its operations may have on the environment and it shall take appropriate measures to prevent and/or mitigate any possible adverse effect that its operations may have on the environment.

**2.16 Business Conduct**

SLR subscribes to a strict business conduct and anti-bribery policy. By entering into this agreement the Supplier undertakes to ensure that he/she will adhere to the SLR business conduct and anti-bribery policy as amended from time to time.

**3 NON-SOLICITATION**

The supplier shall not on its own behalf or in conjunction with or on behalf of any other person, company or firm solicit or entice away or endeavour to solicit or entice away from SLR any individual who is an employee, consultant or director of SLR holding a management or technical position or who has had access to material or confidential information and with whom the supplier has had dealings in connection with this agreement during the preceding 12 months, whether or not that individual would commit any breach of contract by reason of his leaving service.

In the case of any breach of clause 3.1 as a result of which the individual ceases to be engaged by SLR, the supplier shall be deemed to have requested consent to engage the individual and SLR may elect, by written notice to the other party, to give such consent. The supplier shall pay SLR an amount equal to 12 months gross pay of the individual in question, based on the average monthly payment in the preceding 12 months in consideration of such consent in addition to any other damages SLR may have suffered as a result of the enticement.

**4 INSURANCES AND HEALTH AND SAFETY**

The supplier is responsible for its health and safety and that of Supplier employees.

The supplier is required to comply with SLR's health and safety policies and procedures, the Client's health and safety policies and procedures, and the relevant health and safety legislation when working for SLR.

It is the supplier's responsibility to ensure that all the relevant insurance required by law, are in place (e.g. Third party insurance, public liability, medical aid, medical evacuation etc.).

The supplier indemnifies SLR against any health and safety related claim. For example, SLR will not be held responsible for any claim arising from the use of the Suppliers staff, equipment, vehicles, devices, procedures etc., which are required by the Supplier to carry out the agreed scope of work.

**5 CLIENT CONTRACT**

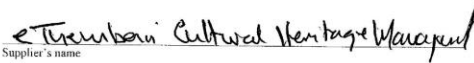
By signing this agreement the Supplier also agrees to any terms and conditions that have been agreed by the Client and the Consultant for the Project.

**6 SIGNATURE**

The parties hereby bind themselves to the conditions of this agreement.

Supplier signature: 

Duly Authorised signatory for and on behalf of:

 Signed on 19 day of March 2021

SLR RMT member or Project Manager signature: \_\_\_\_\_

Duly Authorised signatory for and on behalf of: SLR Consulting (South Africa) (Pty) Ltd

\_\_\_\_\_  
Signed on \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_

Proof of authorisation to sign this contract must accompany this document.

**CONDITIONS OF AGREEMENT WITH COMPANY SUPPLYING PROFESSIONAL AND/OR CONTRACTING SERVICES**

"The Consultant" means the S&B Company as referred to on the Order form.

"The Supplier" means the specialist company as referred to on the Order form.

"The Project" as referred to on the Order form.

"The Client" means the party/company that S&B supplies services to directly.

**1 TERMS OF CONTACT**

The terms of contact shall form part of and apply to the contract and all future contracts or other amendments to the contract. The terms of contact shall be defined by the parties, such conditions or amendments to be agreed in writing.

Unless otherwise specifically stipulated in writing to the contrary, the terms hereof shall apply and prevail over any other conditions, stipulations or any provisions applicable by law.

**2 GENERAL CONDITIONS**

**2.1 Copyright**

All documents (reports, drawings, photographs) and information provided for either or both S&B and the Client shall remain the property of the Supplier. The Supplier shall retain the right to use the work for any other purposes, to any person or entity, without the prior written permission of the S&B and the Client.

**2.2 Confidentiality**

All information or documents are to be treated as strictly confidential and shall not be released to third parties unless express permission is given by both the Client and S&B.

**2.3 Fee for Professional Services**

The Supplier is required to provide a breakdown of their Professional Services for each particular project.

**2.4 Variation/Additional services**

Any variation to this Agreement shall only be of force and effect if agreed upon between the Parties in writing. Any variation shall be agreed upon by both Parties, prior to rendering those additional services or commissioning additional work. The Client shall be responsible for the cost of any such variation for such services.

**2.5 Infringements and claims**

The cost of court costs by the Supplier (as attorney, promoter, executor, lobbyist, etc.) for the enforcement of its rights, including mediation, arbitration, court, and other claims, shall be borne by the Supplier. The percentage mark, up to 10%, shall be applied to these services or brought in from the Client's side.

Any mark-up must be applied to the price of the service excluding VAT.

**2.6 Submission of invoices**

Unless agreed otherwise, all Supplier's invoices will be submitted monthly for all work completed up to and including the invoice date. Unless otherwise agreed with the S&B Project Manager, the Supplier's invoice can be entered into the S&B system for monitoring at any time. Should this be the case, the Supplier's invoice(s) may only be received to the Client in the following month and.

The Supplier's invoices must provide a detailed breakdown of the professional fees and disbursements incurred in each month for carrying out the work for each particular project. The Supplier MUST state the number of additional man-hours, S&B Client name, Supplier VAT number (if applicable), S&B VAT number (if applicable), and number on each and every invoice submitted. Billing which the invoice will be processed and returned to the Supplier.

**2.7 Covering letter describing the project**

A covering letter describing the project, the responsible S&B Project Manager, stating the budget control sheet providing details of all invoices submitted to date, the cumulative amount provided to date and the budget remaining on submission of each invoice.

**2.8 VAT**

The Supplier is required to show VAT where applicable as a separate item on all invoices submitted.

**2.9 Payment of supplier's success**

Payments by S&B to the Supplier shall be paid by the Client. No advance payment under any conditions will be considered under this agreement. S&B and the Client will not be liable for any delay in payment for services, in which case payment will immediately be passed on to the Supplier or to the client once the service is completed.

On receipt of the request payment from the Client for the invoiced services, S&B will make every effort to pay the Supplier within 30 days.

No direct or outstanding payments will be made by S&B to the Client's liability to pay the S&B invoices timely.

The payments by S&B to the Supplier in accordance with this Agreement shall constitute the only payments to the Supplier in connection with this Agreement and shall be inclusive of all costs expenses incurred by the Supplier in the performance of the professional services.

S&B shall deduct from the payments due to the Supplier any amount reasonably claimed by S&B or the Client which is demonstrated and agreed that it is owed to S&B by the Supplier or which represents costs or expenses incurred by S&B as a result of any delay by the Supplier in the execution or completion of the Services. S&B shall have the right to enforce the terms of any penalty provision of the agreement between S&B and the Supplier.

The amounts and currency to be paid in terms of this Agreement shall be as per the order.

**2.10 Professional liability**

The Supplier must provide proof to S&B of their professional indemnity insurance in the form of a certificate of currency indicating the value of the indemnity, the scope of the insurance and any conditions, the terms of which shall be subject to the terms of the contract.

If, at the request of the Client, the Supplier is required to obtain additional professional indemnity insurance, the Supplier shall be responsible for the cost of such insurance. The Client shall be responsible for the cost of any such insurance. The Client shall be responsible for the cost of any such insurance. The Client shall be responsible for the cost of any such insurance. The Client shall be responsible for the cost of any such insurance.

The Supplier's liability for any claim shall be limited to the amount of the professional indemnity insurance provided by the Supplier. The Client shall be responsible for the cost of any such insurance. The Client shall be responsible for the cost of any such insurance. The Client shall be responsible for the cost of any such insurance.

The Client shall be responsible for the cost of any such insurance. The Client shall be responsible for the cost of any such insurance. The Client shall be responsible for the cost of any such insurance. The Client shall be responsible for the cost of any such insurance. The Client shall be responsible for the cost of any such insurance.

**2.11 Validity**

All proposals submitted by the Supplier must include a validity date after which the proposal becomes void and null. This validity period cannot be less than 90 days, unless otherwise stipulated with S&B.

The cost of services provided by the Supplier must remain valid for the duration of each particular project.

**2.12 Written Order**

A signed S&B purchase order or as a minimum a S&B order number must be received by the Supplier before work can commence.

The Supplier is required to carry out the work strictly in accordance with the agreed scope of work as set out in the written order. Any deviation from the scope of work must be approved in writing by the Client. The Supplier shall be responsible for the cost of any such deviation. The Client shall be responsible for the cost of any such deviation.

**2.13 Termination of Services**

In the event of breach by the Supplier of its obligations under this Agreement, which the Supplier fails to remedy within 14 days of written notice, S&B shall have the right to terminate this Agreement forthwith by notice to the Supplier. S&B shall not be liable for any costs incurred by the Supplier in connection with this Agreement. The Client shall be responsible for the cost of any such termination.

**2.14 Adherence**

Any notice between the Parties shall remain in full force and effect until the parties have agreed in writing to amend or terminate the agreement. The Client shall be responsible for the cost of any such amendment or termination.

The Client shall be responsible for the cost of any such amendment or termination. The Client shall be responsible for the cost of any such amendment or termination. The Client shall be responsible for the cost of any such amendment or termination.

**2.15 Disclaimers**

The Parties choose and indicate as their disclaimer clause of avoidance for the purpose of the agreement, the following: The Client shall be responsible for the cost of any such disclaimer.

**2.16 As per contract and address on order form**

S&B (Supplier Name and Address)

**2.17 Duty of Care and Environment**

The Supplier shall perform its obligations in terms of this Agreement having due regard for the possible impact of its activities on the environment. The Client shall be responsible for the cost of any such impact.

**2.18 Business Conduct**

The Supplier shall adhere to the highest standards of business conduct and shall be responsible for the cost of any such conduct. The Client shall be responsible for the cost of any such conduct.

**2.19 Non-Solicitation**

The Supplier shall not, on its own behalf or in conjunction with or on behalf of any other person, company or firm solicit or induce any employee or contractor of the Client to leave the Client's service or to provide services to the Client's competitors.

**2.20 Health and Safety**

The Supplier is responsible for its health and safety and that of its employees. The Client shall be responsible for the cost of any such health and safety. The Client shall be responsible for the cost of any such health and safety.

**2.21 Client Contract**

By signing this agreement the Supplier also agrees to any terms and conditions that have been agreed with the Client. The Client shall be responsible for the cost of any such terms and conditions.

**2.22 Signature**

The parties hereby bind themselves to the conditions of this agreement.

Duly Authorized Signatory for and on behalf of:

*[Signature]* Signed on *10/11/2021*

*[Signature]* Signed on *10/11/2021*

*[Signature]* Signed on *10/11/2021*

*[Signature]* Signed on *10/11/2021*

*[Signature]* Signed on *10/11/2021*

*[Signature]* Signed on *10/11/2021*

*[Signature]* Signed on *10/11/2021*

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*[Signature]* Signed on *10/11/2021*

*[Signature]* Signed on *10/11/2021*

*[Signature]* Signed on *10/11/2021*



## 10. CLOSURE PLAN

<b>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.</b>	
<b>Baseline environment</b> 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	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.
<b>Closure objectives</b> Describe the closure objectives and the extent to which they will be aligned to the baseline environment	A stand-alone <b>Closure and Rehabilitation Report</b> will be compiled as part of the EIA phase.
<b>Rehabilitation Plan</b> 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.	
<b>Rehabilitation Cost</b> Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof	
<b>Decommissioning</b> 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.	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.

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

JINDAL IRON ORE (PTY) LTD.

Name of company (if applicable):

01/02/2022

Date: