

2 June 2023

Dear Interested and affected party,

**Sishen Iron Ore Company (Pty) Ltd: Sishen Iron Ore Mine**  
**NOTICE OF THE APPLICATION FOR AN ENVIRONMENTAL AUHORISATION FOR THE**  
**PROPOSED SISHEN EXPANSION PROJECT (NC30/5/1/2/3/2/1/259 MR/NC-00235MR/102)**

This advertisement gives notice to potential Interested and Affected Parties (I&APs) about where information in respect of the application for the Sishen Expansion Project at Sishen Iron Ore Mine can be obtained, as well as the opportunity for I&APs to comment on the draft Environmental Impact Assessment Report ("EIAR").

**BACKGROUND TO THE PROJECT**

Sishen Iron Ore Company (Pty) Ltd ("SIOC"): Sishen Iron Ore Mine (Pty) Ltd ("SIOM") is operating under mining right number 259 MR. SIOM is in the process of expanding its mining activities.

Sishen Iron Ore Mine ("SIOM") has expanded its mining activities to the western side of the current mining pit area. This included the relocation of the Transnet railway line, Vaal-Gamagara pipeline and the relocation of the Dingleton town (2017). The second phase of the project involved expanding of the mining activities (2021) referred to as the Sishen Western Expansion Project ("SWEP") 5 project. Further to this, the expansion includes the pit expansion and various mining infrastructure (2022) "Sishen Expansion Project".

Originally the Sishen Expansion Project at SIOM comprised of further pit expansions that include Far south pushback 21 and 19, Lylyveld pit expansion, C&G stockpile at Far south and Lylyveld pit, Moolmans workshop, access road and pollution control dam, proposed Far south Waste Rock Dump, heavy and light vehicle crossing, expansion of the existing tyre storage area, heavy mining equipment parkup area, proposed haul roads, and associated mining infrastructure, proposed rerouting of telephone line, powerline and pipelines.

However, due to project timelines associated with obtaining all applicable environmental authorisations, permits and licences for Pushback 21, a decision was made to exclude Pushback 21 and associated infrastructure (haul road, heavy mining equipment park up ("HME"), rerouted powerline, waterline and telephone line, C&G stockpile, associated waste rock dump and road crossing) from this Environmental Authorisation application, in consultation with the Department of Mineral Resources and Energy ("DMRE"). Further thereto, as the waste rock dump is excluded from this application, a waste management licence is no longer required. To this end, an updated

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Environmental Authorisation application was submitted to DMRE on 4 May 2023, with instruction from DMRE to continue with the EIA phase of the project.

The proposed Sishen Expansion Project at SIOM comprises of further pit expansions that include Far south pushback 19, Lylyveld pit expansion, C&G stockpile at Lylyveld pit, Moolmans workshop, access road and pollution control dam, expansion of the existing tyre storage area, proposed haul roads.

Sishen must obtain several environmental authorisations. These include Environmental Authorisation from the Department of Mineral Resources and Energy ("DMRE"), and a Water Use Licence from the Department of Water and Sanitation ("DWS") as well as protected plant species permits from the Departments of Nature Conservation and Forestry ("DENC") and Department of Fisheries, Forestry and Environment ("DFFE").

The following activities are proposed:

### **Pit Expansion (40 ha)**

The mine planners have identified several areas where the pit boundary expands over the next few years.

### **Pushback 19 Pit (15 ha)**

The Pushback 19 pit was assessed and approved in the 2019 EIA/EMP as a dump. Approval is required for the establishment of a pit.

### **Lylyveld pit (110 ha)**

Expansion of the current approved pit 15 ha (2017). No new infrastructure is proposed. It is proposed the C&G stockpile will be located within the existing pit.

### **Moolmans Maintenance Workshop (6.5 ha)**

A new workshop is planned close to the Nooitgedacht filling station and includes the following:

#### Workshop Facilities

- Requirement for the Moolmans Workshop Facilities Washbay and Separation Plant
  - o Four light delivery vehicle ("LDV") Service Bays;
  - o Ground Engaging Tool ("GET") Yard;
  - o Store and delivery area;
  - o Two Boiler shop;
  - o Four Heavy Mining Equipment ("HME") Service bays;
  - o 45 tonnes Overhead Crane
  - o Service lube containers (approximately 200 m³);
  - o Store with office;
  - o Oil handling storage facility;
  - o Support Equipment Service Bay; and
  - o Two 10 kilo litre water tanks and pump system.

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- Ramps at all entrances as per design.

Wash bay and separation plant

The following facilities are required:

- o HME Wash Bay;
- o Machinery Wash Bay;
- o Separation Plant:
- o Silt Trap; and
- o Oil/water separator.

Wash bay for HME

- An HME Wash Bay is required. This must include:
  - o Pumps;
  - o HME Wash Bay:
  - o Two High Volume nozzles; and
  - o Two High Pressure Low Volume nozzles.
  - o Sumps;
  - o Water tank or water feed;
  - o Concrete floor;
  - o High walls to prevent overspray; and
  - o Oil/water separator.
- The Wash Bay floor must be rated to accommodate a Caterpillar 789D Haul Truck. Wash bay must have a slope of 1:100 to the waste-water canal. Floor must be designed to prevent any slippage. Drainage must be provided to the Silt trap. Stop blocks must be installed to prevent an incident in the case of vehicle slipping on slit in the wash bay.

Wash bay for support machinery and LDV's

- A support equipment Wash Bay is required. This must include:
  - o Pumps;
  - o Support Equipment Wash Bay;
  - o Two High Volume Nozzles;
  - o Sumps;
  - o Water tank or water feed;
  - o Concrete floor;
  - o High walls to prevent overspray; and
  - o Oil/water separator
- The Wash Bay floor must be rated to accommodate LDV's and Support Machinery being serviced. Wash bay must have a slope of 1:100 to the wastewater canal. Floor must be designed to prevent any slippage. Drainage must be provided to the Silt trap. Stop blocks must be installed to prevent an incident in the case of vehicle slipping on slit in the wash bay.

Sump and Silt Trap

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The sump and the silt trap must be sized for easy removal of silt from the silt trap as per standard design.

### LDV Service Bays

- Four LDV service bays
- o Each service bay must slope towards the drain between the LDV and HME work areas; and
- o Each LDV service bay must be able to close with a roller door five metre high and four metre wide.
- An access door leading from the LDV Workshop to the HME Workshop area.

### Ground Engaging Tool ("GET") Yard

Secured storage area where bigger components can be stored. The area must be fenced with two double lockable swing gates on both sides. (50 m x 50 m).

### Get Yard Floor

The GET Yard should have a concrete base floor for all the equipment that should be stored in the area.

### Boiler Shop

- The following requirement for the boiler shop:
  - o One Boiler shop (open service bay) in line with the HME service bays:
  - o Drainage needs to be provided in front of the boiler shop; and
  - o Overhead crane from the HME service bays needs to extend over the boiler shop service area.
  - o Lockup boiler shop with three roller doors, with a clear opening of five metre high and four metre wide, leading into this area:
  - o Two Roller doors must be between the boiler shop service bay; and
  - o The third roller door must be from the outside of the building.
- A service door is required next to the roller door.

### HME Service Bays

- The HME Service Bay requirements:
  - o Four HME service bays are required;
  - o HME service bays floor must slope to a drain down the centre of the building draining to the silt trap;
  - o Stop blocks in the front of each HME service bay;
  - o Clear opening of ten metre wide, and 14.2 metre high and 23.5 metre length is required for each HME service bay (17 metre clearance for truck, 4.5-metre service area clearance and walkways and two metre for support equipment and tools);
  - o A 1 metre clearance on all sides of haul truck in the service area;
  - o Overhead crane across all the HME service bays and the unclosed boiler shop;
  - o Crane needs to clear a Haul Truck with one metre when body is raised;

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- o The last HME service bay next to the open boiler shop floor must be reinforced with steel railway tracks to prevent damage to the floor when equipment fitted with steel tracks are serviced;
- o A 40-metre clearance will be required in front of the HME Service bays to ensure safe turning circle for HME haul trucks; and
- o A sufficient number of lube dispensing points, at each unit, must be provided for different types of lube and grease used at the workshop. At least the same number of lube points as with the existing HME Workshop must be provided.

HME Workshop entrance doors

PVC Maxiflex type Mega door type and not steel roll up doors is preferred to close the HME Workshop area from external elements.

Overhead Crane

A 45-tonne overhead crane is required to operate across all HME work areas as well as the open Boiler shop. The hoist of the overhead crane need to clear the HME haul truck open body with a minimum of one metre. The size of the crane to be specified by the Design Engineer.

Service Lube Container

A 12-metre service lube container, standard height on the side of the building. Container must be on a concrete floor base with a slope for draining fluids to the slit trap. The service lube container must have a roof covering. If there is not sufficient space at the lubrication farm, this must be accommodated on the other side of the building.

Store with Office

- A lockable storeroom with the following:
  - o Office area in the storeroom;
  - o Serving hatch that leads into the LDV workshop area. A serving counter at 1100 mm from the floor. The door opening must be two metre wide and 1.1 metre height from the serving counter;
  - o A lockable entrance door from the LDV service area;
  - o The height of the floor between the store room and LDV workshop should be on the same level at the door leading to the LDV workshop; and
  - o A delivery roller door from the outside of the stoar with a clear opening of four metres wide and five metres high.
- An outside entrance door next to the delivery roller door for access into the storeroom.

Store Room

The store room should be high enough to accommodate double volume (level) storage.

Store Delivery Area

A dedicated delivery area with a concrete slab in front of the delivery door at the store for offloading.

Oil Handling Storage Facility

- A 12-metre oil handling and storage container, standard height on the side of the building;

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- A drain needs to be installed from the container to the oil separation plant; and
- If there is insufficient space at the lubrication farm, this must be accommodated on the other side of the building.

Machinery (2628) Service Bay

- Machinery/Support Equipment (2628) service bay
- Machinery service bay must slope towards the drain between the machinery and HME work areas;
- Machinery service bay must be able to close with a roller door (4 metre in width and 5 metre in height); and
- A 25-metre clearance will be required in front of the HME Service bays to ensure safe turning circle for support equipment and LDV's.

Water Tanks and Pump System

- The following water tank requirements:
  - o Two 10 000 litre JoJo water tanks; and
  - o Pressure pumps to supply sufficient pressure to accommodate services intended for.
  - o Water feed and connection points in the workshop area for cleaning.

Admin Office Toilet/ Washroom Facilities

- o Separate toilet facilities to be provided for 15 males and 17 females.

Office Blocks

The office block requirement for the Administration, GCC Plant and Production offices and administration:

- Five single management offices;
- 5 x 2 desk offices;
- 1 x 4 desk office;
- 10 – 12 seat Boardroom;
- Separate toilet facilities for male and female (15 Male and 17 Female); and
- Kitchenette facility.
- GCC Plant:
  - o 8 x Single offices;
  - o 2 x 4 desk office;
  - o 1 x 2 desk office;
  - o 12 seat Boardroom with 15 additional chairs;
  - o Filing Office;
  - o Ablution
- ☐ Separate toilet and shower facilities for male and female (45 male and 5 female);
- ☐ Separate change rooms (45 male and 5 female);
- ☐ Accommodate 115 lockers (105 lockers in male change room and 10 lockers in female change room);
- o Kitchenette facility; and

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- o Training room for 30 people.
- Production:
  - o 5 x single desk offices;
  - o 3 x 2 desk offices; and
  - o 1 x Control Room;
- Ablution:
  - o Separate toilet facilities for male and female (65 male and 15 female);
  - o Separate change rooms (65 male and 15 female);
  - o Accommodate 80 lockers (65 male and 10 female);
  - o Kitchenette facility; and
  - o Training room for 10 people.

### Support Equipment Parking Bays

Parking Bays for all support equipment.

### Designated Maintenance Areas

All maintenance of machineries need to take place within designated workshop structures.

### Simulator Area

A designated area is required for the training simulator. It is a 6m x 3m container that will require undercover parking. The area must be either close to the production area or at the offices.

### External Maintenance Service Bay

- An open area must be provided for shovel and HME rebuild work in instances when it is not feasible to be done inside the workshop. The requirements for the facilities are:
- An area of 160 m long and 45 m wide is required for Haul Truck and support equipment services that takes longer than 24 hrs to complete;
- The areas must include sufficient control, such as HDPE lining and sacrificial layer, to prevent ground and groundwater pollution due to oil spillages; and
- The measurements above includes a service road area for LDV's and support equipment for maintenance tasks. The service road is to separate man and machine during maintenance activities.

### Waste Bin Area

- A designated waste bin area must be provided;
- The area must be separated from pedestrians and HME and easily accessible for artisans to dump waste through manual handling or with trollies;
- It must also be easily accessible for waste bin trucks when collecting the full bins;
- The approximate area required for the waste bins is 8 metres (w) and 18 metres (l); and
  - Sufficient space is required in front of the containers for the on- and off-loading of containers.

### Shift Change Rooms / HME Park Area

Shift change rooms to be as close as possible to the HME park up area for shift workers.

### Existing Wash Bay at HME Workshops

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The wash bay at the HME workshop is currently contracted out. If a decision is made to consolidate services at the wash bay the contract needs to be renegotiated.

### HME Workshop Wash Bay Clearance

A 50-metre entry and exit clearance is required at the existing wash bay used by LOM.

### Tyre Bay At HME Workshops

The tyre bay at the HME Workshop needs to accommodate two HME's at any one time.

### Wash Bay, Tyre Workshop and Tyre Pump Station Location

From a management perspective it is advisable that the entire Moolmans facilities (all structures) requirement be within walking distance from each other.

### Water Management at Moolmans Facilities

A water management system needs to be put in place to prevent water from pooling in the area.

### Water Management around buildings

A water management system needs to be installed around all permanent and semi-permanent building to prevent water from pooling. Sufficient water canals must be installed to prevent flooding.

### Designated Maintenance Areas

Designated maintenance areas, excluding the workshop, are required for long term maintenance. It does not require a structure but needs to be in close proximity of the workshop.

### Shift Toilet and Shower Facilities

Separate toilet and shower facilities for male and female Shift personnel adjacent to the shift change rooms.

### Caucus Rooms

Shift change rooms to accommodate shift changes and caucus meetings for 60 personnel. The shift change room must be able to accommodate 50 Male and 10 Female locker facilities. It is suggested that the Shift change room be accommodated close to where the change rooms were.

### Wash Bay Water Containment

The Wash Bay must be provided with a small canal and sufficient apron to contain the water and prevent the development of a wet and muddy area in front of the Wash Bay.

### Container Storage Area

Containerised storage area.

### Boiler Shop Storage Area

The Boiler shop requires an outside storage area of approximately 8 x 20 metres, close to the boiler workshop, for materials and storing equipment.

### Water Supply

A suitable wash water supply line must be established for the proposed Moolmans Workshop Facilities area for maintenance and cleaning purposes.

### Electrical Infrastructure

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The design of all electrical, control and instrumentation (“ECI”) infrastructure for all facilities created by this project and all associated activities such as site visits, site investigations & measurement activities, e.g., Soil Resistivity Surveys, etc.

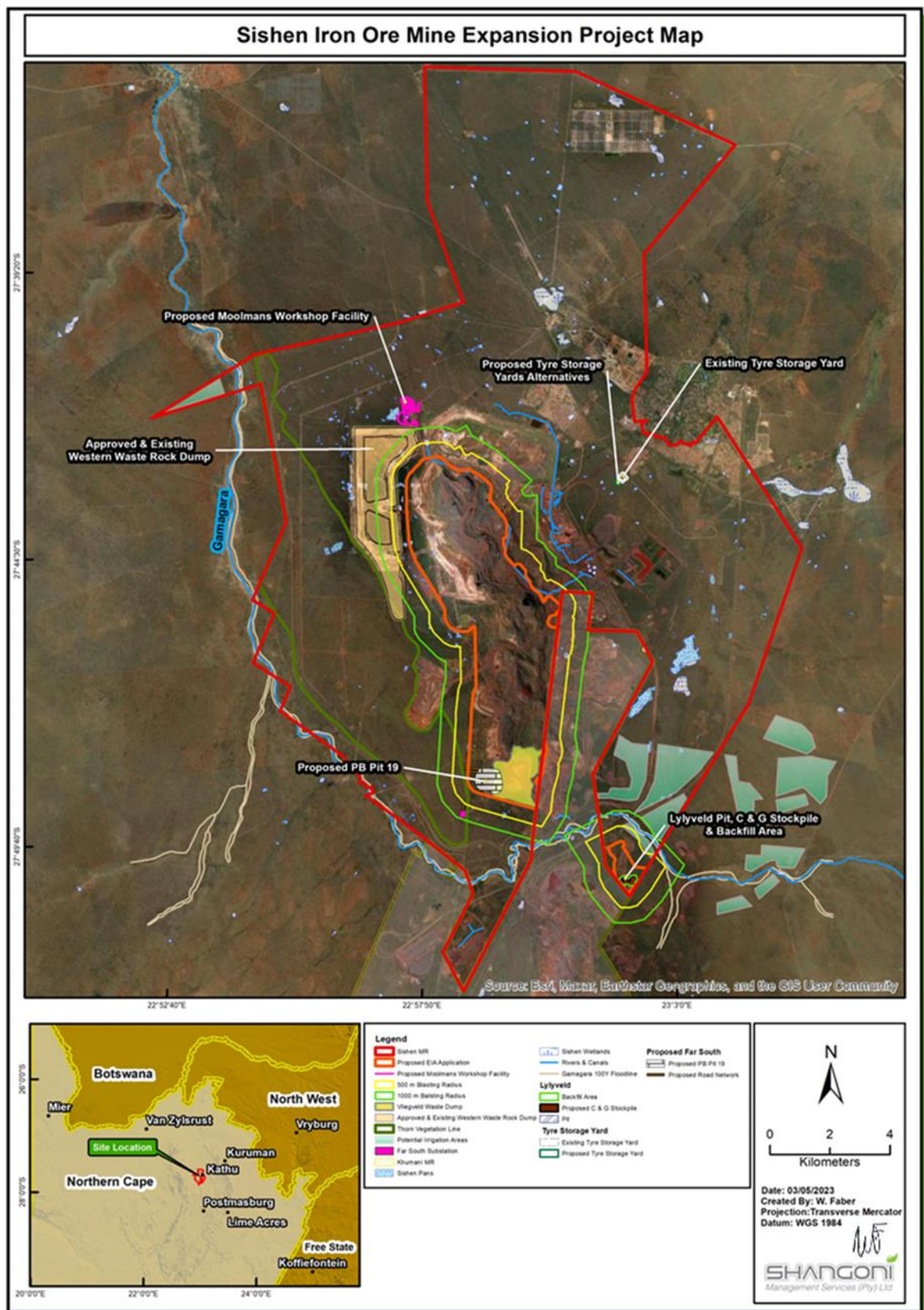
The design scope typically includes the following:

- Developing equipment lists;
- Developing load lists;
- Determining required Maximum Demand;
- Identify power supply sources;
- Evaluate adequacy of supply sources;
- Power supply & reticulation design (to be integrated into existing infrastructure for supply of electricity);
- Interior & Exterior Illumination design;
- Soil Resistivity Surveys for Earthing & Lightning Protection if required in the absence of previous survey result reports;
- Earthing & Lightning Protection Design (Lightning Protection Design Certificate to be Issued as per applicable SANS);
- Develop all relevant investigation and design documentation, i.e., Concept Report, Feasibility Report, Detailed Design Report, Illumination Design Report, Complete Infrastructure Drawings;
- Verify or Develop (responsibility to be clarified by project manager) bill of quantities for full detailed equipment and material specification;
- Develop Scopes of Work and supply all drawings and other relevant documentation for all Installation Work Packages; and
- Site Monitoring of contractors and facilitation of commissioning activities.

### Tyre Storage Yard (4.5 ha)

Expansion of the current Tyre Storage Yard. Proposed expansion to the west and alterative to the north of the Existing Tyre Storage Yard.

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Refer to Figure 1 for an indication as to where the proposed facilities will be located.

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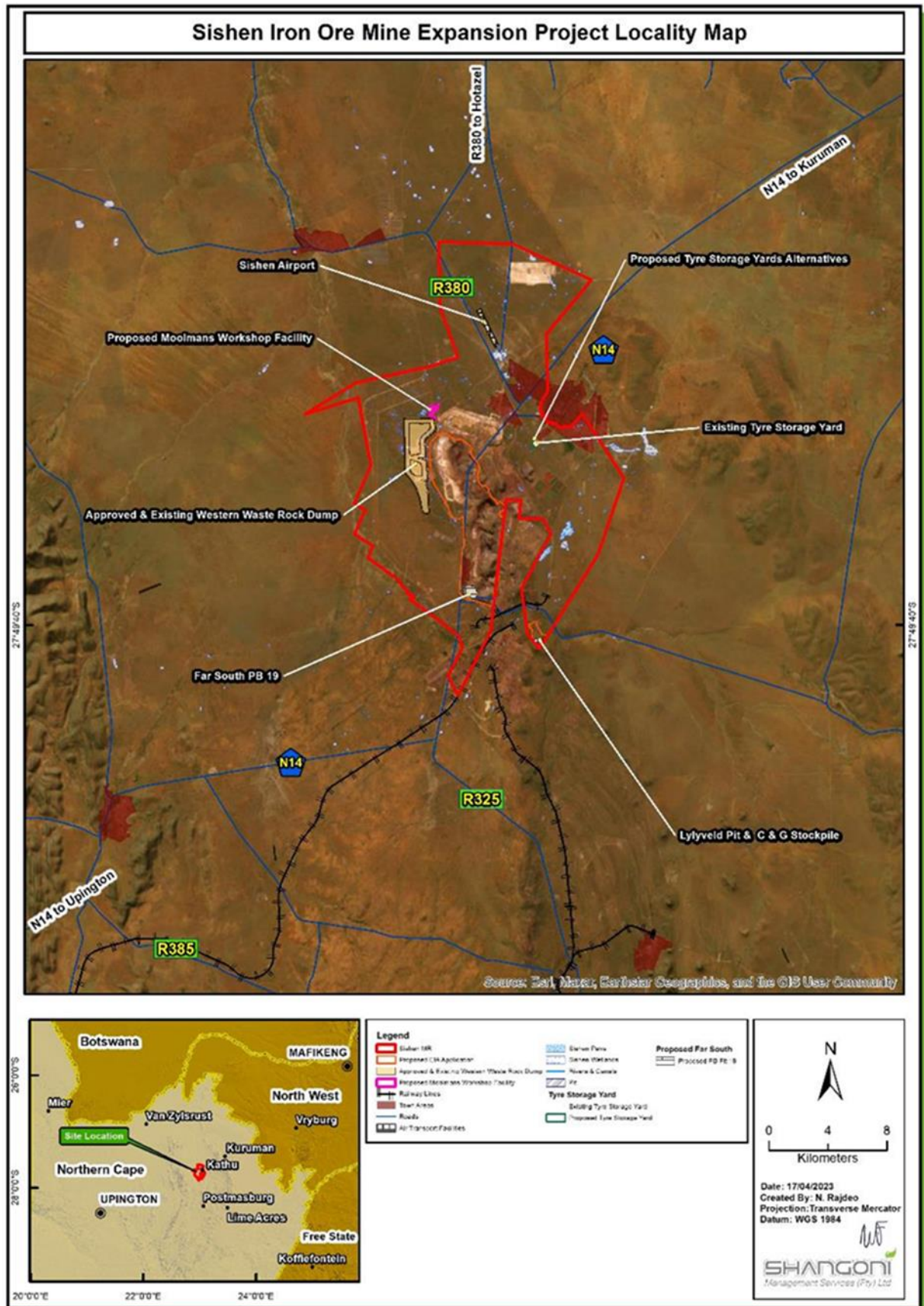


Figure 1: Locality Map of the project area

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**LEGISLATIVE REQUIREMENTS**

**Procedure applied to the application**

As the project activities require the extension of existing activities within the Mining Right boundary, an Environmental Impact Assessment (EIA) will be required in compliance with:

- the National Environmental Management Act, 1998 (Act No.107 of 1998) (NEMA) for the authorisation of listed activities contained in GNR 983, GNR 984 and GNR 985 of 4 December 2014, published in terms of Sections 24(2), 24 (5), 24D, 44 and 47(A) (1)(b) of the NEMA and
- Water Use Licence ("WUL") in terms of the National Water Act, 1998 (Act 36 of 1998), Section 21. The following water activities will be applied for:
  - Section 21(c) of the Act: Impeding or diverting the flow of water in a watercourse and
  - Section 21(i) of the Act: Altering the bed, banks, course or characteristics of a watercourse.
  - Section 21(g) of the Act: Disposing of waste in a manner which may detrimentally impact on a water resource.

**Application submitted to competent authority**

An application for authorisation in terms of the NEMA and NEMWA, as amended and the Environmental Impact Assessment Regulations, 2014 has been submitted on 13 October 2022 to the Department of Mineral Resources and Energy ("DMRE"). The final Scoping Report was accepted and acknowledged by the DMRE on 23 March 2023.

**Listed activities applied to the application**

The listed activities which have been applied for include GNR 983 Listing Notice 1 Activity 12, 14, 19, 24, GNR 984 Listing Notice 2 Activity 6 and 15 GNR 985 Listing Notice 3 Activity 12 and 14 under NEMA.

**Legislation associated with the application**

South African legislation requires that a Scoping Report (SR) and an Environmental Impact Report (EIR) be compiled in accordance with Regulation 21 to 24 of Chapter 4 of GNR 982. In order to do so Shangoni Management Services (Pty) Ltd (Shangoni) has been appointed as the independent Environmental Assessment Practitioner (EAP) in terms of Regulation 12 of GNR 982, in order to undertake and manage the processes to apply for the required environmental authorisations. Furthermore, Shangoni meets the requirements of an EAP contemplated in Regulation 13 of GNR 982.

**PUBLIC PARTICIPATION**

People have a right to be informed about potential decisions that may affect them and to be afforded an opportunity to influence those decisions. This advertisement forms part of a Public

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Participation Process as part of the NEMA and NEMWA process. It describes the various components of the project to enable I&APs to get a better understanding of the potential environmental and social impacts that could be expected from the proposed project. It also outlines the NEMA and NEMWA process and the opportunities for the public to become involved during the course of the study.

- **Register as an Interested and Affected Party (I&AP)**

You may register as an I&AP. To register as an I&AP of this project, or to obtain more information or submit comments, please request a Registration Form from Shangoni and return it together with any comments to Shangoni by no later than 3 July 2023 at the details provided below.

- **Newspaper advertisements**

Placed in the Kathu Gazette on 2 June 2023.

- **Availability of the Draft Scoping Report**

The draft EIAR is available to the public for review for a period of thirty (30) days, from 2 June to 3 July 2023. Hard copies of the mentioned document are available at the Sishen Auditorium. A register and comment sheet will accompany the hard copies at the public viewing station. Please complete the register subsequent to reviewing the report. Alternatively, e-mail or fax your comments to Shangoni (details provided below) by no later than 3 July 2023. An electronic copy of the draft EIAR will also be posted on the Shangoni's website ([www.shangoni.co.za](http://www.shangoni.co.za)) for public comment for the same period of thirty days.

Kind regards,



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*Lee-Anne Fellowes*  
*Shangoni Management Services*

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**REGISTRATION FORM**

Please complete this form and return it to Shangoni Management Services (Pty) Ltd to ensure that you are registered as an Interested and Affected Party (I&AP).

By answering the questions below, you will help us to develop a better understanding of your information requirements. The form also gives you the opportunity to make comments regarding the project. Additional pages may be attached should this be required.

**I&AP Details:**

Full name and surname: \_\_\_\_\_

Contact details: \_\_\_\_\_

Physical address: \_\_\_\_\_

Postal address: \_\_\_\_\_

Preferred method of communication: \_\_\_\_\_

Preferred telephone number: \_\_\_\_\_

Organisation/Representative: \_\_\_\_\_

Farm name, number and subdivision or \_\_\_\_\_

Street Address (if applicable): \_\_\_\_\_

Tel (w): \_\_\_\_\_

Fax: \_\_\_\_\_

e-mail: \_\_\_\_\_

Tel (h): \_\_\_\_\_

Cell: \_\_\_\_\_

☐ fax ☐ e-mail ☐ post

☐ cell ☐ home ☐ work

**Questions**

1) Where did you get information about the proposed project?

☐ Newspaper advertisement ☐ notice board ☐ flyer ☐ other (please specify)

\_\_\_\_\_

2) Do you represent a company/organisation or is your interest on behalf of yourself?

\_\_\_\_\_

3) Do you know of anyone that is affected by the proposed activity who was not informed of the project? (Please provide contact details)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4) Do you have any specific concerns or comments regarding the proposed project?

**YES**

**NO**

**If yes, please indicate what the comments are?**


[illegible]

Date \_\_\_\_\_

Please forward completed forms to Shangoni Management Services (Pty) Ltd. by no later than **3 July 2023**.

**Postal Address:** P. O. Box 74726, Lynnwood Ridge, 0040



**SHANGONI**  
Management Services (Pty) Ltd