



KWAZULU-NATAL PROVINCE

ECONOMIC DEVELOPMENT, TOURISM
AND ENVIRONMENTAL AFFAIRS
REPUBLIC OF SOUTH AFRICA

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Programme/Sub-Programme: Environmental Management
Enquiries: Ms. Nombulelo Zungu
Telephone: 031 310 5310
Email: Nombulelo.Zungu@kzndedtea.gov.za
Reference: DMS/24G/0004/2020

Date: 10/12/2025

Email Transmission

Cyclops Engineering Foundry CC

76 Premier Place
Phoenix Industrial Park
Durban
4068

Attention: Mr. Navin Singh
Tel: 031 507 3592
Fax: 086 620 1697
Email: navz.singh@telkomsa.net

Dear Sir

DM/S24G/0004/2020: ENVIRONMENTAL AUTHORISATION FOR THE CONTINUATION OF THE UNAUTHORISED OPERATIONS IN THE CYCLOPS ENGINEERING FOUNDRY CC FACILITY THAT REQUIRES AN ATMOSPHERIC EMISSIONS LICENSE (AEL) AT 76 PREMIER PLACE, PHOENIX INDUSTRIAL PARK, DURBAN

The KwaZulu-Natal Department of Economic Development, Tourism and Environmental Affairs has **authorised** the abovementioned project. This environmental authorisation and reasons for the decision are attached herewith.

ENQUIRIES

Please note that:

- All queries regarding this application for environmental authorisation (including the Department's decision) must be directed to the official of this Department with contact details provided on the letterhead above.

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- **Only** queries regarding appeals must be submitted to the Office of the MEC (details provided below).

NOTIFICATION OF DECISION ON APPLICATION

In accordance with regulation 4(2) of the EIA Regulations 2014 as amended, the applicant must in writing **within 14 days** of the date of this decision ensure that:

- All registered interested and affected parties are provided with access to this decision and the reasons for the decision; and
- The attention of all registered interested and affected parties is drawn to the fact that an appeal may be lodged against the decision in terms of the National Appeal Regulations 2025, if such appeal is available in the circumstances of the decision.

APPEALS

You may submit an Appeal in terms of section 43 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the National Appeal Regulations, 2025 on a **prescribed form obtainable from the Appeals Administrator**, as per the details below:

CONTACT DETAILS:	PHYSICAL ADDRESS:
The Appeals Administrator Department of Economic Development, Tourism & Environmental Affairs Unit: Legal Services Attention: Ms Vanessa Maclou E-mail: vanessa.maclou@kznedtea.gov.za Tel: 082 461 7668	The Appeals Administrator Department of Economic Development, Tourism & Environmental Affairs Unit: Legal Services Attention: Ms Vanessa Maclou 270 Jabu Ndlovu Street PIETERMARITZBURG 3201

A copy of any appeal must be sent to the authorising official as per the details on the enquiries of this Addendum.

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Please contact this Department if you have any queries regarding this correspondence.

Yours faithfully



for: Head of Department: Dr. N.G. Zulu

KwaZulu-Natal Department of Economic Development Tourism and Environmental Affairs

Signed by: Mr. Thabani Gambu

Designation: Director – Environmental Quality Management

EAP: 2019/1420

cc: *Enviromin Projects (Pty) Ltd, Att: Candis Lubbe, Tel: 084 371 0123, email:*
info@envirominprojects.co.za

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Environmental Authorisation

Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park



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ECONOMIC DEVELOPMENT, TOURISM
AND ENVIRONMENTAL AFFAIRS
REPUBLIC OF SOUTH AFRICA

Environmental Authorisation

In terms of the requirements of Section 24G (2) (b) of the National Environmental Management Act (NEMA), Act No. 107 of 1998, as amended.

Project Title: The rectification of the unlawful commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park, Durban, eThekweni.

Application number:	DM/S24G/0004/2020
Date of issue:	<u>10 / 12</u> / 2025
Authorization holder:	Cyclops Engineering Foundry CC
Location of activity:	76 Premier Place, Phoenix Industrial Park, Durban

KZN Department of Economic Development, Tourism
and Environmental Affairs

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GROWING KWAZULU-NATAL TOGETHER

Environmental Authorisation

Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

Scope of Project

Cyclops Foundry is located within an established Phoenix Industrial, Durban, within the eThekweni Metropolitan Municipality, Kwa Zulu Natal Province (**Locality Map attached as Annexure 2 herewith**). Cyclops Foundry is a small-scale non-ferrous foundry. The total size of the operational site is approximately 1 013.00 m², however, the actual operational space is 449.40m². The site is predominately characterised by concrete and paved surfaces, office block, the canteen, parking area for both employees and visitors, factory/warehouse buildings, diesel tank (2000 l capacity), generator (1000kv and other structures). The main factory building is where all operations take place and the following equipment and infrastructure are associated with the main factory (**Site Layout Map attached as Annexure 3 herewith**):

- 3 furnaces
 - 600kg furnace;
 - 120kg furnace;
 - 120kg furnace;
- Melting department;
- Core making area;
- Moulding department/painting department;
- Fettling department/final fettling and inspection department;
- Cooling towers;
- Heat treatment plant;
- Sand reclamation plant machine;
- Product/raw material storage area;
- Quarantine area;
- Pattern shop/storage area; and
- Locker room.

Cyclops Foundry acquired the site/facility in 2017 from the previous owner, which consisted of a workshop and offices. Cyclops Foundry commenced with operations in 2017, the same year the site was procured.

The process begins with mixing of silica sand and sodium silicate. The mixture is then poured into moulding boxes to create the required shape. Mould is then "gassed" with carbon dioxide (CO₂), a process which results in sand moulds becoming hard. Sand moulds are coated with graphite-based paint.

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Metal in the form of ingots (purchased in already "modified" state) is placed into crucibles situated in the furnaces. Furnaces are fuelled with illuminating paraffin. Crucibles in furnaces are heated, resulting in the metal within the crucibles melting. Crucibles containing molten metal are removed from furnaces and poured into the sand moulds. After being left to cool, moulds are broken up and the "waste" sand disposed of at a nearby landfill site. The castings (e.g. bronze and aluminium) are then moved to the fettling area for cleaning and finishing, which are then sold to their customers.

Cyclops Foundry has the potential to produce $\pm$ 35 tonnes of bronze and 20 tonnes of aluminium castings per month. Their current actual production rate however is on average 15 tonnes of castings per month.

The following raw materials are used at the foundry:

Raw Material Type	Design Consumption Rate (quantity)	Actual Consumption Rate (quantity)	Units (quantity/period)
Silica Sand	unknown	35	Tons/month
Sodium silicate	unknown	1.75	Tons/month
Aluminium	unknown	20	Tons/month
Bronze ingot	unknown	35	Kg/month

Table 1: Raw Materials associated with Cyclops Foundry.

Hazardous material that will be stored/utilized on site as part of the integral operations on site include:

- Waste silica sand (40 – 50m³ per month)

Cyclops were unaware at the time of the commencement of the need for environmental authorisation and air emissions licence for the activities they were carrying out. As soon as they became aware, they set about the rectification process.

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Environmental Authorisation

Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

Decision

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the Environmental Impact Assessment Regulations, 2014 as amended on 07 April 2017, the

**KwaZulu-Natal Department of Economic Development, Tourism and
Environmental Affairs**

(hereafter referred to as the "Department")
grants Environmental Authorisation

to:

Cyclops Engineering Foundry CC

(hereinafter referred to as "the holder of the Environmental Authorisation")

Details of the contact person:

Mr. Navin Singh
P.O. Box 60672
4080

Tel: 031 507 3592

Fax: 086 620 1697

Email: navz.singh@telkomsa.net

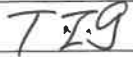
To undertake the following activities (hereafter referred to as "the activities") as described in section 1 below.

1. Activities authorised

1.1 Description and Location of Activity

The following activity in Government Notice Number Regulation (GNR) 324, dated 04 December 2014, as amended is triggered by the abovementioned project:

This application is described as triggering the following listed activity:

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Environmental Authorisation

Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

Listing Notice / Activity No.	Activity description	Component of the project
Activity 6 of Listing Notice 2, of 2014, as amended	<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> (ii) <i>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> (iii) <i>the development of facilities or infrastructure for the treatment of effluent, polluted water, wastewater or sewage where such facilities have a daily throughput capacity of 2 000 cubic metres or less; or</i> (iv) <i>where the development is directly related to aquaculture facilities or</i>	The project development triggers sub-categories 4.2 and 4.4 of Section 21 of the National Environmental Management: Air Quality Act (NEM: AQA) (Act No. 39 of 2004): 4.2. Combustion installations 4.4. Secondary Aluminium production. The facility requires the Atmospheric Emissions Licence (AEL).

KZN Department of Economic Development, Tourism and Environmental Affairs

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Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

Listing Notice / Activity No.	Activity description	Component of the project
	<i>infrastructure where the wastewater discharge capacity will not exceed 50 cubic metres per day.</i>	

Table 2: Listed activities triggered

1.2 21 Digit Surveyor General Codes for the Development Site – 76 Premier Place, Phoenix Industrial Park, within the eThekweni Municipality:

N	0	F	T	0	2	5	6	0	0	0	0	0	2	4	4	0	0	0	0	0
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1.3 The activity triggering the need for an EA is located at the following GPS co-ordinates

Corner	Latitude	Longitude
Corner 1	29°43'15.44"S	30°59'29.77"E
Corner 2	29°43'14.34"S	30°59'28.69"E
Corner 3	29°43'13.87"S	30°59'29.38"E
Corner 4	29°43'15.00"S	30°59'30.45"E
Centre Point	29°43'14.47"S	30°59'29.61"E
Authorised Site	76 Premier Place, Phoenix Industrial Park	

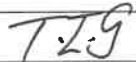
Table 3: GPS co-ordinates of the activity

2. General

2.1 Compliance with the conditions of this environmental authorisation (EA)

In terms of section 49A (1) (c) of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, failure to comply with the conditions of this environmental authorisation constitutes an offence in terms of section 49 B (1).

2.2 Understanding the conditions of this authorisation

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Environmental Authorisation

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It is the responsibility of the holder of the EA to understand the conditions of this authorisation. Any queries regarding this EA must be submitted in writing to the Department as per contact details specified in condition 2.4 herewith. All correspondence pertaining to this application must clearly include the reference number: DM/S24G/0004/2020.

2.3 Amendments to the project and update of the Environmental Management Programme (EMPr)

2.3.1 Any changes to, or deviations from, the project description set out in this EA must be approved, in writing, by the Environmental Impact Assessment (EIA) component - eThekweni District before such changes or deviations may be effected.

2.3.2 Any subsequent amendments to the approved EMPr must also be submitted to the Department for review. The amendments must only be implemented after being approved by the EIA component - eThekweni District.

2.3.3 This EA does not negate the EA holder's responsibility to comply with any other statutory requirement that may be applicable to the carrying on of the activities.

2.3.4 The Department retains the right to inspect the project area at any time of the development in accordance with relevant legislation.

2.3.5 It is the responsibility of the EA holder to ensure the details are correct at the time of submitting any documentation and that the documentation reaches the relevant official.

2.3.6 The Environmental Management Programme (EMPr) prepared by Marang Environmental and Associates (Pty) Ltd, dated 22 September 2023, submitted as part of the final Assessment Report received by the Department on 22 September 2023 for the rectification of an unlawful activity which complies with section 24N of NEMA and Appendix 4 of the EIA Regulations, 2014, as amended and is hereby approved.

2.3.7 Non-compliance with the approved EMPr will constitute non-compliance with the conditions of this EA.

2.3.8 The approved EMPr must be:

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Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

- 2.3.8.1 Made binding on all parties operating on the site; and,
2.3.8.2 Included in all contractual documentation for the development.

2.3.9 A copy of the approved EMPr together with any documents that need to be attached to the EMPr must be forwarded to the Department: CME unit – eThekweni District with contact details as specified in condition 2.4 herewith.

2.4 Contact details of the Department

The following contact details for the Department must be used for all reports, notices etc. which must be submitted to the Department:

Physical Address: 22 Dorothy Nyembe Street, 9th Floor, Durban, 4001
Attention: The Control Environmental Officer–

Component	Email Address	Telephone No.	Cell. No.
Compliance, Monitoring & Enforcement (CME)	Siyabonga.Sikhakhane@kznedtea.gov.za/ Yugeshni.Govender@kznedtea.gov.za	031-310 5326/14	081 541 0758/ 7583/ 082 921 9540
Environmental Impact Assessment (EIA)	Natasha.Brijlal@kznedtea.gov.za/ Sibusiswe.Mthimkhulu@kznedtea.gov.za	031 310 5315	079 898 0491
Pollution & Waste Management (P&W)	Shireen.Mahabeer@kznedtea.gov.za	031 310 5313	082 322 1871

Table 3: eThekweni District office component contact email addresses and telephone numbers

2.5 The EA holder must obtain an Atmospheric Emissions License (AEL) from eThekweni Municipality.

3. Conditions of Environmental Authorisation

This Environmental Authorisation (EA) is subject to the conditions set out below:

3.1. Where any of the contact details change, including the name of the responsible person, the physical or postal address and/or telephonic details, the holder of the EA must notify the Department in writing as soon as the new details become known. This correspondence must be sent to the Control Environmental Officer: EIA and CME Component as per the contact details specified in condition 2.4 herewith.

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Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

3.2. It is the responsibility of the EA holder to ensure that the Department is made aware of any change of ownership, transfer of rights & obligations or contact details within thirty (30) days of such changes. An amendment application must be submitted.

3.3. The holder is responsible for compliance with the provisions for Duty of care and remediation of damage in accordance with Section 28 of National Environmental Management Act (NEMA), Act 107 of 1998, as amended. Determination of damage vests in this Department.

3.4. Notification to interested and affected parties

3.4.1 The holder of the EA must notify all registered interested and affected parties, in writing and within **fourteen 14 calendar days** from date of the Department's decision to authorise the activity.

3.4.2 The notification referred to above must –

3.4.2.1 Specify the date on which the authorisation was issued;

3.4.2.2 Inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2025; and,

3.4.2.3 Advise the interested and affected party that a copy of the authorisation will be furnished on request.

3.5. Monitoring and Reporting to the Department

3.5.1 The requirements for the management, monitoring and reporting of impacts for the operational phase of the project as specified in the approved EMPr must be adhered to.

3.5.2 An independent Environmental Control Officer (ECO)¹ must be appointed **within 30 days** of receipt of this EA to monitor the implementation of the approved EMPr and EA.

3.5.3 Should the ECO for the approved development change at any time, this must be communicated, in writing, to the CME component – eThekweni District with contact details as specified in condition 2.4 herewith within **fourteen (14) calendar days** of appointing the new ECO.

¹ The ECO must be independent and have the necessary experience and qualifications to understand, interpret, monitor, audit and implement the EMP and the conditions of this EA. Feedback must be given in the form of an audit report which must address any non-compliance that may have arisen from the audit.

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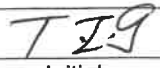
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Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

- 3.5.4 The notification in terms of condition 3.5.3 above must include contact details for the ECO, details pertaining to the ECO's relevant experience, and reasons for the change in ECO.
- 3.5.5 The ECO must conduct environmental audits as per the time intervals specified below:
- 3.5.5.1 **A close-out audit report** must be carried out by the ECO within three (3) months of the issue of this EA. The audit report must be submitted within five (05) days from the date of the site visit to the Department: CME unit as per contact details contained in condition 2.4 herewith.
- 3.5.6 The responsibilities of the ECO must include *inter alia*:
- 3.5.6.1 Performing all tasks assigned to the ECO in the approved EMPr;
- 3.5.6.2 Keeping record of all activities on site, problems identified and transgressions noted;
- 3.5.6.3 Assisting the EA holder in ensuring/enforcing implementation of the EA and EMPr; and,
- 3.5.6.4 Providing guidance/advice that ensures implementation of appropriate environmental management measures and adherence with environmental legislation/regulations.
- 3.5.7 Records relating to monitoring and auditing must be kept on site by the ECO and made available for inspection to this Department and other relevant authorities.
- 3.5.8 The activity authorized must only be carried out at the location/s as described in **Section 1, Activities Authorized** above.
- 3.6. This EA is effective from the date of issue and must be implemented, unless an appeal has been lodged with the Department within the prescribed timeframes.

Availability of this EA

- 3.7. A copy of this EA must be kept on site by the EA holder and made available to any authorized official of the Department on request.
- 3.8. The Department shall not be held responsible for any damages or losses suffered by the holder or successor in title in any instance where construction/commissioning may be temporarily or permanently stopped for

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Environmental Authorisation

Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

reasons of non-compliance by the holder of the EA with the conditions of the EA as set out in this document or any other subsequent document emanating from these conditions of the EA.

Continuation of the activity

- 3.9. The development must comply with the Site Layout Plan prepared Tala Solutions, Datum WGS 1984, as part of the Environmental Impact Report dated 22 September 2023, depicted as **Annexure 3: Development Layout Plan** attached herewith.
- 3.10. Any deviations from the layout authorised, must be approved in writing by the Department: EIA unit - eThekweni District as per the contact details specified in condition 2.4 herewith, **prior** to the implementation of such deviation, in accordance with all relevant legislation applicable at the time.
- 3.11. The unwanted waste silica sand must be classified once off to confirm the classification of this waste.

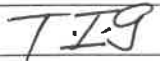
Air quality

- 3.12. The EA holder must comply with the National Control Dust Regulations, Regulations 827 of the NEMAQA (Act no. 39 of 2004).

Stormwater Management

- 3.13. The existing stormwater management plan must be updated to include the new structures constructed for the development. A copy of the updated and approved stormwater management plan must be appended to the approved EMPr and submitted to the Department: CME as per contact details specified in condition 2.4 herewith.
- 3.14. Any wastewater generated must not be discharged into the natural environment. Measures to contain wastewater and to safely dispose of it must be implemented in accordance with the approved EMPr.
- 3.15. Drainage must be contoured to ensure that runoff from the site is contained and does not culminate in off-site pollution downstream of any stormwater discharge.

Solid Waste Management

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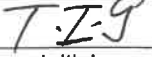
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Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

- 3.16. The holder of the EA is responsible for the removal and disposal of solid waste to a permitted waste disposal site.
- 3.17. Waste material generated must be handled/stored/disposed according to its classification in terms of the National Environmental Management Waste Act (NEMWA), Act no. 59 of 2008.
- 3.18. All waste material collected must be stored under cover and within a designated waste collection/storage area which must be on an impermeable surface. Access control to this area must be properly managed.
- 3.19. All waste that cannot be reused or recycled must be disposed off accordingly at a landfill site registered in terms of section 20(b) of the National Environmental Management: Waste Act, Act No. 59 of 2008. The contractor responsible for the removal of the waste must supply the applicant with a certificate indicating safe disposal. Within **fourteen (14) days** of its issue, a copy of the safe disposal certificates must be forwarded to the Control Environmental Officer: CME Component as per contact details specified in condition 2.4 herewith.
- 3.20. Storage areas must be levelled and hardened, skip integrity must be checked and skips/vessels must be protected from natural elements.
- 3.21. Waste bins must be provided to encourage personnel not to dispose of waste in surrounding areas.

Operational phase

- 3.22. The EA holder is responsible for compliance with the provisions for Duty of Care and remediation of damage in accordance with section 28 of NEMA, Act no. 107 of 1998 (as amended). Determination of damage vests in this Department.
- 3.23. Dust prevention measures and dust control measures outlined in the approved EMPr must be implemented during the operational phase.
- 3.24. In case emissions of PM, SO₂, NO₂, HF, NH₃ and TVOCs exceed the acceptable standards, appropriate control measures need to be investigated and abatement equipment needs to be installed and/or improved where necessary to achieve compliance with the acceptable emission limits.
- 3.25. A complaints register must be kept on site and all complaints regarding emissions, dust, odour or noise due to operations at the foundry and any other environmental nuisance must be recorded and attended to.

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Environmental Authorisation

Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

- 3.26. Should the need arise to install/construct any further structures on site, the holder of the EA must contact the Control Environmental Officer: Environmental Impact Assessment (EIA) Component in writing prior to commencement of the activity to determine the requirements, if any, as per contact details provided in condition 2.4 herewith.

Compliance with section 24H of NEMA and associated Regulations

In terms of section 24H of the NEMA and the Section 24H Amendment Regulations (GN R2320 of 29 July 2022), all tasks referred to in regulation 14(2) of the section 24H Amendment Regulations in relation the assessment, evaluation and consideration of all reports and documents required to inform the decision on this application for environmental authorisation in terms of the EIA Regulations, have been undertaken by the following registered environmental assessment practitioners:

Name	Designation	EAPASA No.	Role
Sibusisiwe Mthimkhulu	Control Environmental Officer	2021/4259	Lead Assessing Officer
Nombulelo Zungu	Deputy Director	2022/5399	Review

Date of environmental authorisation: 10/12/2025


for Head of Department:

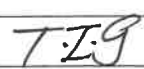
KwaZulu-Natal Department of Economic Development, Tourism and Environmental Affairs

Signed by: Mr. Thabani Gambu

Designation: Director – Environmental Quality Management

EAP: 2019/1420

Annexure 1: Reasons for Decision

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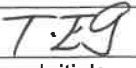
Environmental Authorisation

Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

1. Information considered and key decision factors in making the decision

In reaching its decision, the Department took, *inter alia*, the following into consideration –

- a) A NEMA S24G application was received by the Department on 21 July 2020 for the unlawful commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park;
- b) Site inspection conducted on 10 September 2020 by the Department officials;
- c) Submission of Draft Environmental Impact Report on 21 September 2021;
- d) A Notice of Intent to issue a Compliance Notice in terms of S31L of NEMA was issued by the Department on 2 February 2023;
- e) A follow-up site inspection conducted on 7 February 2023 by the Department officials;
- f) Representations made by Cyclops Engineering Foundry CC to the Department on 20 February 2023;
- g) An Amended Notice of Intent to issue a Compliance Notice in terms of S31L of NEMA was issued on 10 March 2023;
- h) Representations made by Cyclops Engineering Foundry CC to the Department on 13 March 2023;
- i) A Directive in terms of S24G (1) of NEMA issued on 27 March 2023;
- j) Responding Statement furnished on 25 April 2023;
- k) Appeal decision received on 6 July 2023 from the MEC;
- l) Email received on 15 August 2023 noting outstanding concerns from the Directive;
- m) Letter with the outstanding information dated 02 October 2023;
- n) The final updated S24G Report was received by the Department on 06 October 2023;

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Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

- o) An administrative fine letter issued by the Department dated 08 April 2024;
- p) An appeal against the quantum of the administrative fine determined in terms of Section 24G of the National Environmental Management Act, No. 107 of 1998 lodged by the applicant dated 25 April 2024;
- q) The appeal decision issued by the Department dated 12 June 2025 reducing the quantum of the administrative fine imposed by the Department from R625 000 to R75 000;
- r) The proof of payment of the administrative fine received by the Department on 18 June 2025; and,
- s) The site visit conducted by Ms. Sibusisiwe Mthimkhulu and Ms. Natasha Brijlal from the Department of Economic Development Tourism and Environmental Affairs (EDTEA) in the presence of Mr. Navin Signh, Mr. Nikhil Signh and Mr. Shaimai Signh of Cyclops Engineering Foundry CC and Ms. Candis Lubbe (EAP) from Enviromin Projects (Pty) Ltd on 15 July 2025.

2. Key Decision Factors

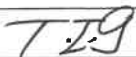
a) The Environmental Impact Report, dated 22 September 2023

- i) The Environmental Impact Report prepared by Marang Environmental and Associates (Pty) Ltd and received by the Department on 06 October 2023 included a description of the environment that was affected by the activity and the manner in which the physical, biological, social, and economic aspects of the environment; and,
- ii) The methodology used in assessing the impacts identified in the Environmental Impact Report has been indicated and assessed.

b) Public Participation

- i) The public participation process complies with the requirements of Chapter 6 of the EIA Regulations, 2014 as amended and the comments from the organs of state and interested & affected parties have been addressed and included in the Environmental Impact Report received by the Department on 06 October 2023.
- iii) No objections were raised by any I&APs or stakeholders.

c) Need and Desirability

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The foundry industry plays a significant role in the economic growth of the country through the production of castings which are an essential component in infrastructure development and many manufacturing processes. Producing castings locally ensures maximum benefit for the country through the provision of cheaper products for use in local manufacturing, as well as via the exportation route. The industry is labour intensive, and thus provides employment for both skilled and unskilled labour during a time when employment opportunities are paramount to the reduction of unemployment rates within the country.

The National Development Plan (NDP) outlines a long-term development path towards a prosperous and successful economy characterised by high levels of economic growth, employment generation and an equitable society. In addition, these plans and policies aim to address the South African Government's industrial agenda, prioritized industrial sectors and a range of interventions required to accelerate economic growth, create jobs, and fight poverty and underdevelopment. Cyclops Engineering's continued operations aligns with these provisions.

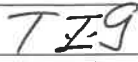
The Quarterly Employment Statistics (QES) survey report released by Statistics South Africa (StatsSA) records that the formal (non-agricultural) sector shed 648 00 jobs in second quarter of 2020 due to the Covid-19 pandemic with the manufacturing industry losing R11,2 billion of earnings and an overall annual decrease of 1.6%.

Cyclops Engineering's client base includes some major customers such as Tongaat Hulett Sugar and Illovo Sugar and rely on the continuation of Cyclops operations for their replacement spares, without which, the mills will not be able to operate.

Cyclops Engineering currently have a staff compliment of thirteen, and who are totally reliant on the business for a living, at a time when every employment opportunity is paramount to the reduction of unemployment rates within the country. These employees would suffer severely should they be required to not work for any period of time, or indefinitely should the foundry be required to close. Cyclops Foundry contributes towards the national and local economy which will ultimately benefit the overall Gross Domestic Product (GDP) of the country.

d) Air Quality²

² Level One (1) Air Quality Impact Assessment – Screen View Assessment undertaken by Marang Environmental and Associates dated May 2023

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Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

The Air Quality Screening Assessment consisted of screening model simulations using SCREEN3 to determine predicted incremental PM₁₀, PM_{2.5}, NO₂, SO₂, CO, HF, NH₃ and Total Volatile Organic Compounds (TVOC) concentrations associated with operations at the foundry, specifically the melting of metal in the furnaces (which emits PM₁₀, PM_{2.5}, HF, NH₃ and TVOCs) and combustion of liquid paraffin fuel (which emits PM₁₀, PM_{2.5}, NO₂, SO₂ and CO). There are three illuminating paraffin-fired operational furnaces at the foundry connected to one stack. Comparison of the predicted concentrations was made with the National Ambient Air Quality Standards (NAAQS), where applicable, to determine compliance. As there are no South African Air Quality Standards for HF and NH₃, comparison of the modelled concentrations was made with the Alberta International Air Quality Guidelines to determine compliance. Compliance could not be determined for TVOCs as there are no known air quality standards that we could find for this pollutant. To allow for a comparison of predicted incremental concentrations (model output) with the South African NAAQS and Alberta International Air Quality Guidelines, the predicted concentrations were converted using the conversion factors given in the South African Regulations Regarding Dispersion Modelling.

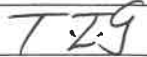
The overall impact of Cyclops Engineering Foundry operations on ambient air quality is expected to be low due to the following reasons:

- The facility is located in an already established industrial area;
- The implementation of mitigation measures for emissions associated with both point sources and open-air fugitive emission sources at the site can significantly reduce emissions at Cyclops Engineering.

The focus of the study was on point source emissions (i.e. furnace stack emissions). Other open-air fugitive emission sources associated with the foundry such as mould knock off, fettling, and waste sand storage are also identified as key sources of emissions at the site. In terms of the furnace stack emissions, it was recommended that stack emissions monitoring continue to be conducted on an annual basis to determine the actual emission scenario at the Cyclops Engineering Foundry. Should emissions of PM, SO₂, NO₂, HF, NH₃ and TVOCs exceed the acceptable standards, appropriate control measures need to be investigated and abatement equipment needs to be installed and/or improved where necessary to achieve compliance with the acceptable emission limits.

e) Stack Emissions Monitoring Report 2023³

³ Stack Emissions Monitoring Report 2023 undertaken by RAYTEN ENGINEERING SOLUTIONS (Pty) Ltd dated 08 June 2023.

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Rayten Engineering Solutions (Rayten) conducted a stack emission survey at Cyclops Foundry. It is Rayten's opinion that the component emissions reported are representative of the true emissions from the point source, at the time the samples were taken.

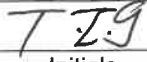
The results may become non-representative of the true emissions if deviations from process operating conditions, raw material feed rate and/or composition changes as well as upset conditions occur other than what was present at the time of taking the various samples.

The Furnace did comply with the minimum emissions standards as stipulated within the section 21 listed activities.

f) Alternatives

Not approving the activity will reduce the potential for Cyclops Foundry to positively contribute to the local and national economy through additional job security and potential casting exports. Should the "no-go" option be selected, the above-mentioned socio-economic benefits would not be realised. Furthermore, the site is an existing developed site within an established industrial area and will continue to be used for some other industrial activity should Cyclops no longer operate.

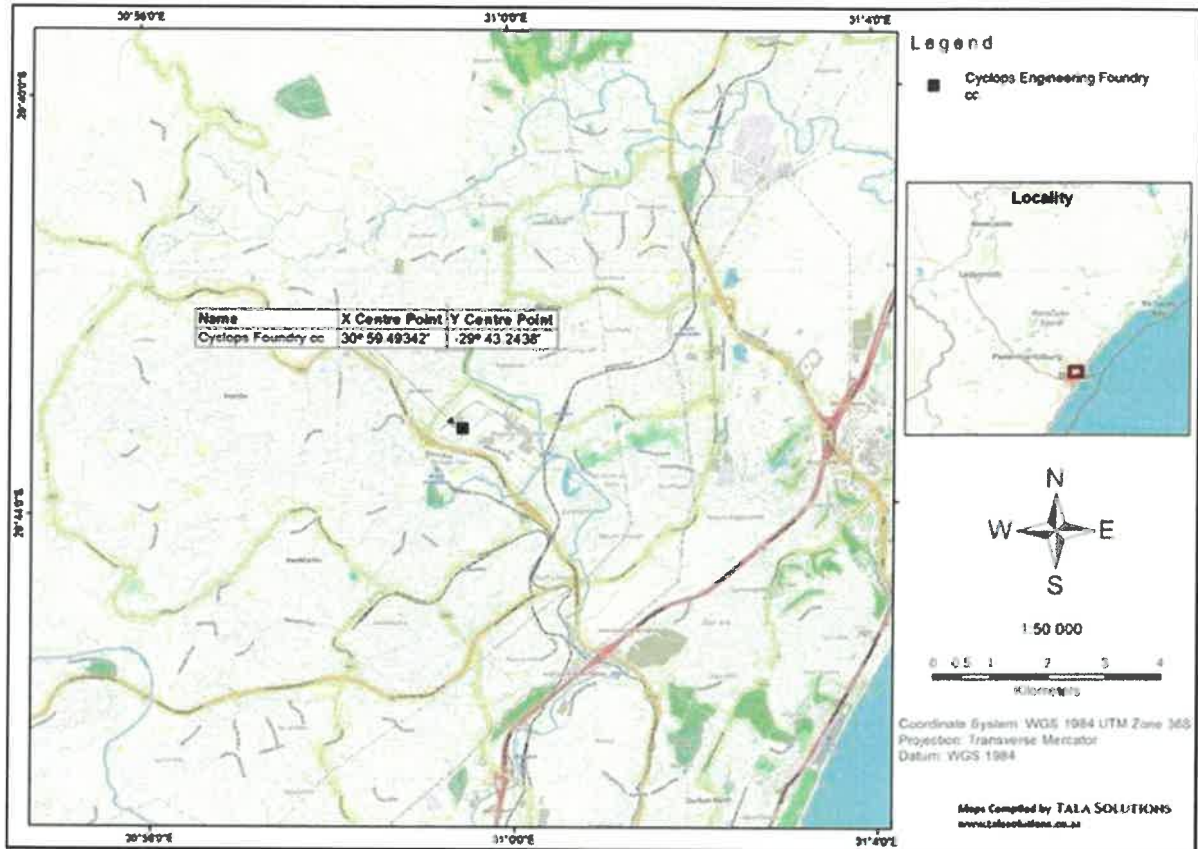
In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the activity will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the activity can be mitigated to acceptable levels. **The continuation of activities for the operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park, Durban, is hereby authorised.**

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Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

Annexure 2: Locality Map



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GROWING KWAZULU-NATAL TOGETHER

Environmental Authorisation

Section 24G: Commencement of operations in the Cyclops Engineering Foundry CC facility that requires an Atmospheric Emissions License (AEL) at 76 Premier Place, Phoenix Industrial Park

Annexure 3: Site Layout Plan

