



Reference: 19/2/5/2/A1/2/WL0063/22

Attention: Mr. Ebrahim Khan

The Board of Directors
GeT Steel (Pty) Ltd.,
13 Glenhurst Street
Parow
CAPE TOWN
7500

E-mail: ebrahim@getalloys.co.za

WASTE MANAGEMENT LICENCE FOR THE PROPOSED ESTABLISHMENT OF A SCRAP STEEL FOUNDRY ON ERF 255, ATLANTIS INDUSTRIA, AT 22 WILLIAM GOURLAY STREET, ATLANTIS INDUSTRIA, WESTERN CAPE

WASTE MANAGEMENT LICENCE

A. DECISION

I, Lance McBain-Charles, in my capacity as the Acting Director: Waste Management of the Department of Environmental Affairs and Development Planning (hereinafter referred to as 'the Department'), in terms of the National Environmental Management: Waste Act (NEM:WA), 2008 (Act No. 59 of 2008), as amended, read with the Environmental Impact Assessment (EIA) Regulations, 2014, promulgated in Government Notice (GN) No. R. 982 of 4 December 2014, as amended, hereby grant this Waste Management Licence to GeT Steel (Pty) Ltd., (hereinafter referred to as 'the Licence Holder'), for the proposed establishment of a scrap steel foundry on Erf 255, Atlantis Industria, at 22 William Gourlay Street, Atlantis Industria, Western Cape (hereinafter referred to as 'the Facility'), subject to compliance with the conditions set out in section C of this Waste Management Licence.

B. DESCRIPTION OF THE ACTIVITY:

The Applicant, GeT Steel (Pty) Ltd., intends to establish a scrap steel foundry within the existing developed footprint of the old forge located on Erf 255, Atlantis Industria. The proposed scrap steel foundry shall be established for the purposes of recovery, recycling, and treatment of scrap steel at a capacity of up to 13,000 (thirteen thousand) tons per month. The foundry is expected to produce in total approximately 11,000 (eleven thousand) tons per month of steel products comprising of 7,000 (seven thousand) tons per month of steel billets, 1,000 (one thousand) tons stainless steel billets and 3000 (three thousand) tons per month of various cast steel components. Erf 255 is in the existing built-up portion of Atlantis Industria, which is identified and zoned for heavy industrial purposes. The immediate surrounding landscape is dominated by Industrial/Commercial Land Use. Undeveloped, industrial-zoned land is also located near Erf 255. The proposed establishment and operation of the scrap steel foundry which will entail and install the following: -

- The Licence Holder intends to do the refurbishment of the existing forge buildings, workshop, office building and site surfacing as required for operational health, safety and habitability. Equipment for the pre-treating of scrap steel (including stainless steel). This includes sorting, shredding, and grinding. The prepared steel will be utilised by GeT Steel (Pty) Ltd., on site.
- Electric induction furnaces for melting, refining, and casting of scrap steel into billets and cast components. It is envisaged that the foundry will have three furnaces (two 5-ton and one 10-ton melting furnaces) within the billet production section, and 15 furnaces (three of each 1-ton, 2-ton, 4-ton, 6-ton, and 8-ton casting furnaces) in the cast components section.
- Casting conveyor moulds and sand moulds.
- A mould making area where sand and various chemical binders are used to manufacture moulds.
- A mould breaking area.
- A mould sand reclamation plant that entails the blending of sand from the used moulds, with new sand.
- Finishing of cast components using grinding, fettling, cutting and occasional welding.
- Shot/sand blasting of certain cast components.
- Material handling cranes,
- Water Cooling System.
- Electromagnet.
- Rolling mill for conversion of semi-finished casting products (billets) into finished products (e.g., structural steel).
- An air emissions filtration system serving the foundry furnaces as well as the mould making and breaking areas as well as the components finishing area. In principle, emissions filtration will entail localised extraction, as well as building extraction in the main foundry area, and appropriate filtration such as bag filters.
- Expected production: Up to 11,000 tons per month total output, which will be split approximately between 7,000 tons per month steel billets, 1,000 tons per month of stainless-steel billets and up to 3,000 tons per month cast steel components.
- Raw material: the foundry will process up to 13,000 tons per month of scrap steel, iron and stainless steel.
- Energy source: Electricity will be used for the melting, refining and casting of the steel.
- Water source: Municipal water will be used.
- Site Access: Existing access to the site on Willian Gourlay Road. (Security controlled access)

The following listed activities specified in Category A&B of the NEM:WA, 'List of waste management activities that have, or are likely to have a detrimental effect on the environment', published in Government Notice No. 921 on 29 November 2013, as amended, is hereby authorised:

Category A

- 3(3) The recycling of general waste at a facility that has an operational area in excess of 500m², excluding recycling that takes place as an integral part of an internal manufacturing process within the same premises.

Category B

- 4(3) The recovery of waste including the refining, utilisation, or co-processing of the waste at a facility that processes in excess of 100 tons of general waste per day or in excess of 1 ton of hazardous waste per day, excluding recovery that takes place as an integral part of an internal manufacturing process within the same premises.
- 4(6) The treatment of general waste using any form of treatment at a facility that has the capacity to process in excess of 100 tons per day calculated as a monthly average, excluding the treatment of organic waste using composting or any other organic waste treatment.
- 4(10) The construction of a facility for a waste management activity listed in Category B of this Schedule (not in isolation to associated waste management activity).

For the storage, sorting, shredding, grinding, crushing, screening or bailing of the waste at the Facility, the following Category C listed activities in the NEM:WA, 'List of waste management activities that have, or are likely to have, a detrimental effect on the environment', as published in Government Notice No. 921 on 29 November 2013, as amended, may be triggered if the applicable thresholds are exceeded:

Category C

- 5(1) The storage of general waste at a facility that has the capacity to store in excess of 100m³ of general waste at any one time, excluding the storage of waste in lagoons or temporary storage of such waste.
- 5(6) The sorting, shredding, grinding, crushing, screening or bailing of general waste at a waste facility that has an operational area that is 1000m² and more.

If these thresholds will be exceeded, the Licence Holder is required to comply with the NEM:WA, 'National Norms and Standards for the Storage of Waste', as published in Government Notice No. 926 on 29 November 2013 and, if applicable, the NEM:WA, 'National Norms and Standards for the Sorting, Shredding, Grinding, Crushing, Screening, Chipping or Bailing of General Waste', as published in Government Notice No. 1093 on 11 October 2017.

In this Licence, "Director" means the Director: Waste Management of the Western Cape Department of Environmental Affairs and Development Planning, who may be contacted at the address below:

Director: Waste Management
Department of Environmental Affairs and Development Planning
Private Bag X 9086
CAPE TOWN
8000

GeT Steel (Pty) Ltd., appointed the following independent Environmental Assessment Practitioner (EAP) to administer the application for a Waste Management Licence:

DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP)

The Board of Directors

The Environmental Practice (Pty) Ltd.,

Postal address: 23 Dartmouth Road, Muizenberg, 7945

Contact person: Ms. Colleen McCreadie

EAP Registration No.: 2018/166

Tel.: (021) 788 9323

Cell.: (066) 210 9892

E-mail: projects@enviroprac.co.za; colleen@enviroprac.co.za

The granting of this Waste Management Licence is subject to compliance with the conditions set out in section C.

C. LICENCE CONDITIONS

| | |
|---------------------------|--|
| LICENCE NUMBER: | 19/2/5/2/A1/2/WL0063/22 |
| WASTE APPLICATION: | TREATMENT, RECOVERY & RECYCLING OF WASTE AT ATLANTIS FORGE |
| LOCATION: | ERF 255, ATLANTIS INDUSTRIA |
| LICENCE HOLDER: | GET STEEL (PTY) LTD. |
| CONTACT PERSON: | WASTE MANAGEMENT CONTROL OFFICER |
| POSTAL ADDRESS: | P.O. BOX 298, CAPE TOWN |

1. LOCATION

1.1. This Licence authorises GeT Steel (Pty) Ltd., to construct and operate the Facility on Erf 255, Atlantis Industria, at 22 William Gourlay Street, Atlantis Industria, Western Cape.

1.2. The location of the entrance to the Facility is:

| Latitude | Longitude |
|---------------|---------------|
| 33°35'40.61"S | 18°28'22.79"E |

1.3. The co-ordinates indicated in the Waste Management Licence Application Form and the Waste Management Licence Application Additional Information Annexure signed on 9 May 2022 and received by the Director on 17 May 2022, Final Environmental Impact Assessment (EIA) Report and Environmental Management Programme (EMPr) dated 7 March 2023, compiled by The Environmental Practice and submitted by the Licence Holder, are as follows:

| Corner | Latitude | Longitude |
|-------------------|---------------|---------------|
| North-west corner | 33°35'32.75"S | 18°28'25.85"E |
| North-east corner | 33°35'33.86"S | 18°28'31.23"E |
| South-west corner | 33°35'40.61"S | 18°28'22.79"E |
| South-east corner | 33°35'42.63"S | 18°28'27.74"E |

1.4. SG 21-digit code of the Facility is: C01600870000025500000.

1.5. The footprint of the Facility and its associated infrastructure is 35,662m².

2. APPOINTMENT OF WASTE MANAGEMENT CONTROL OFFICER

2.1. The waste management activities that are authorised by this Licence, must be managed by fit and proper persons who are competent in respect of the responsibilities to be undertaken by them.

2.2. A Waste Management Control Officer (WMCO)/Environmental Control Officer (ECO) must be appointed, who will monitor and ensure compliance and correct implementation of all mitigation measures and provisions as stipulated in this Licence, the Final Environmental Impact Assessment Report and EMPr, dated 7 March 2023. The WMCO/ECO must: -

- 2.2.1. work towards the development and introduction of clean production technologies and practices to achieve waste minimisation,
- 2.2.2. identify and submit potential measures in respect of waste minimisation, including the reduction, recovery, re-use and recycling of waste to the Licence Holder and the Director,
- 2.2.3. take all reasonable steps to ensure that the Licence Holder complies with the Licence conditions and requirements and the provisions of the NEM:WA, and
- 2.2.4. promptly report any non-compliance with any Licence conditions or requirements or provisions of the NEM:WA to the Director through the most effective means reasonably available.

2.3. Condition 2.2 does not affect the liability of the Licence Holder to comply with all conditions and requirements of this Licence.

3. GENERAL MANAGEMENT

3.1. The EMPr dated 7 March 2023, submitted as part of the Final EIA Report, is hereby approved and must be implemented together with all the conditions of this Licence.

3.2. An application for the amendment to the EMPr must be submitted to the Director if any further amendments are to be made to the EMPr and this may only be implemented once the amended EMPr has been authorised by the Director.

3.3. The EMPr must be included in all contract documentation for all phases of implementation.

3.4. The Licence Holder must notify the Director immediately of any events or incidents that may cause significant environmental damage or significant breach of the requirements of the EMPr.

3.5. Any persons having duties that are or may be affected by the matters set out in this Licence must have convenient access to a copy of it, kept at or near the place where those duties will be carried out.

3.6. A copy of this Licence and the EMPr must be kept at the Facility where the waste listed activities will be undertaken. The Licence and EMPr must be produced to any authorised official of the Department who requests to see it for the purposes of assessing and/or monitoring compliance with the conditions contained herein and must be made available for inspection by any employee or agent of the Licence Holder who works or undertakes work at the Facility.

3.7. The Licence Holder will remain responsible for the Facility, and/or any of the impacts arising from the operations on the environment.

4. FACILITY SECURITY AND ACCESS CONTROL

4.1. The Licence Holder must prevent unauthorised access to the Facility, by having the Facility enclosed with a fence and a gate with the same height.

4.2. All entrance gates must be manned during the hours of operation and locked outside the hours of operation.

4.3. Weatherproof, durable and legible notices must be displayed at each entrance to the Facility in at least 3 (three) of the official languages applicable in the area. These notices must prohibit unauthorised entry, state the hours of operation, include the type of waste permissible, the name, address and telephone number of the Licence Holder and the person responsible for the operation of the Facility. Signage must also be displayed for each of the waste activities on the Facility.

5. PERMISSIBLE WASTE

- 5.1. Any portion of the Facility which has been constructed or developed according to Condition 6, of this Licence, may be used for the management of waste classified as general waste, according to the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008), as amended (NEM:WA), or any current or future Norms and Standards developed by the Department of Environment Affairs, is authorised.
- 5.2. If more than 80m³ of hazardous waste is going to be stored at the Facility, registration in terms of the relevant NEM:WA National Norms and Standards for the Storage of Waste (Government Notice No. 926 of 23 August 2013) must be adhered to.
- 5.3. The Licence Holder must take all steps to ensure that hazardous waste is not managed at the Facility.
- 5.4. All waste loads must be checked at the gate to prevent the management of waste not permitted by this Licence.

6. CONSTRUCTION AND RUNOFF WATER MANAGEMENT

- 6.1. The Licence Holder must submit the finally approved and signed engineering drawings for construction of the Facility, to the Director for record keeping.
- 6.2. Construction, operations and further development within the Facility must be carried out under the supervision of a Professional Engineer, registered under the Engineering Profession of South Africa Act, 2000 (Act No. 46 of 2000).
- 6.3. Construction of the Facility must be in accordance with the Final EIA Report and EMPr as prepared by Environmental Assessment Practitioner, dated 7 March 2023.
- 6.4. The Facility must be constructed in accordance with recognised civil engineering practice.
- 6.5. The Facility, or any portion thereof must be constructed and maintained in such a way that: –
 - 6.5.1. the formation of pools due to rain is prevented;
 - 6.5.2. free surface runoff of stormwater is ensured; and
 - 6.5.3. contamination of stormwater is prevented.
- 6.6. The Licensing Authority shall not be held responsible for any damages or losses suffered by the Applicant or its successor in title in any instance where the construction or operation subsequent to construction is temporarily or permanently stopped for reasons of non-compliance by the Applicant with the condition of approval as set out in this Licence or any other subsequent document emanating from these conditions of acceptance.
- 6.7. After construction of the Facility or further development within the Facility, the Licence Holder shall notify the Director thereof and the person referred to in condition 6.2 shall submit a certificate or alternatively a letter to the Director that the construction of the Facility or further development within the Facility, as proposed by the Licence Holder and approved by the Director, is in accordance with recognised civil engineering practice and the requirements in this Licence, before treatment, recovery and recycling listed activities may commence on the Facility. If the Director is satisfied with the construction of the Facility or any further development within the Facility and has given written permission, the Licence Holder may use the Facility or any further development within the Facility for the treatment, recovery and recycling listed activities.

- 6.8. Works shall be constructed and maintained on a continuous basis by the Licence Holder to divert and drain from the Facility in a legal manner, all runoff water arising on land adjoining and adjacent to the Facility, to reasonably prevent the stormwater from entering the Facility.
- 6.9. Works shall be constructed and maintained on a continuous basis by the Licence Holder to divert and drain from the Facility, all runoff water arising on the Facility, to prevent pollution to groundwater.
- 6.10. The Stormwater Management Plan dated October 2022, compiled by Jean Dippenaar Consult (Pty) Ltd., is hereby approved and must be implemented.
- 6.11. Any development which occurs within the 1:100-year flood line and/or within 500m from the boundary of a wetland would require a water use licence in terms of section 40 of the National Water Act, 1998 (Act No. 36 of 1998).
- 6.12. This Licence must be made binding to the main contractor as well as individual contractors and should be included in tender documentation for the construction contract.
- 6.13. Should any archaeological artefacts be exposed during excavations, the construction in the vicinity of the finding must be stopped. Under no circumstances shall any artefacts be destroyed. Such an archaeological site must be marked and fenced off, and the South African Heritage Resource Agency must be contacted within 48 hours.

7. FACILITY MANAGEMENT AND OPERATIONS

- 7.1. The Licence Holder shall retain the responsibility for the Facility, any of its impacts arising from the operations on the environment and its monitoring and ensure that: -
 - 7.1.1. the presence of any nuisance conditions or health hazards, such as vectors (flies and vermin), dust, exposed waste, obnoxious odours and noise are prevented and monitored on a regular basis and monitoring results thereof are kept in terms of condition 11, and
 - 7.1.2. any complaints from the public must be attended to by the Licence Holder, who must take all reasonable and practical steps to alleviate the cause of the complaint within a reasonable timeframe to the satisfaction of the Director and record it in terms of conditions 11 and 12.
- 7.2. The Licence Holder must ensure that effective dust control is exercised to avoid any dust emanating during the construction and operational phases, from the processing of the waste. The Licence Holder must apply sufficient dust control measures to prevent wind-blown dust.
- 7.3. The Facility must comply with the Provincial Noise Control Regulations P.N. 200/2013, as promulgated under the Environmental Conservation Act, 1989 (Act No. 73 of 1989).
- 7.4. The Licence Holder must ensure that the provisions of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) are met, to ensure the health and safety of all staff.
- 7.5. An Emergency Response Plan (ERP) must be developed and all staff must be trained in the implementation thereof. The ERP should be regularly updated and must include fire excavations, injury on duty, accidents, procedures caused by unexpected hazardous waste which entered the Facility.
- 7.6. Spill kits which include hydrocarbon absorbent material must be stored at the Facility and staff must be trained to use these spill kits.

8. MONITORING AND MEASUREMENT PLAN

- 8.1. The Licence Holder must put in place a monitoring and measurement plan that must amongst others include:
- 8.1.1. Tonnage received, recovered, recycled, treated and transferred,
 - 8.1.2. Waste types and sources,
 - 8.1.3. Water quality monitoring in accordance with the Stormwater Management Plan dated October 2022, compiled by Jean Dippenaar Consult (Pty) Ltd, and
 - 8.1.4. Air quality monitoring, as required by the Responsible Authority and/or the Atmospheric Impact Report, Version 2, with Reference No.: SSC1071/1, dated February 2023.

9. ENVIRONMENTAL POLLUTION INVESTIGATIONS

- 9.1. If, in the opinion of the Director, any environmental pollution, nuisances or health risks may be or are occurring on the Facility, the Licence Holder must investigate the cause of the problem and take reasonable steps to alleviate the problem in consultation with the Director. Should the investigation reveal any unacceptable levels of pollution, the Licence Holder must submit a report with mitigation measures to the satisfaction of the Director.

10. AUDITING

- 10.1. Internal Audits: Internal audits must be conducted quarterly (four times per year) by the Licence Holder and on each audit occasion an official report must be compiled by the relevant auditor, in the format referred to in condition 10.3, to report the findings of the audits, which must be made available to the external auditor specified in condition 10.2 and the Director (if requested), according to condition 10.2.
- 10.2. External Audits: The Licence Holder must appoint an independent external auditor to audit the Facility annually (once a year) and this auditor must compile an audit report, in the format referred to in condition 10.3 documenting the findings of the audit, which must be submitted by the Licence Holder to the Director. The external audit report must:-
- 10.2.1. state whether conditions of this Licence are adhered to and must include an interpretation of all available data and test results regarding the operation of the Facility and all its impacts on the environment,
 - 10.2.2. specify target dates for the implementation of the recommendations to achieve compliance and specify whether corrective action which was taken for the previous audits non-conformities was adequate, and
 - 10.2.3. be submitted to the Director within 30 (thirty) days, from the date on which the external auditor finalised the report.
- 10.3. Both the internal and external audit reports must be in accordance with the format as prescribed by the Director.
- 10.4. Departmental Audits and Inspections: The Director reserves the right to audit and/or inspect the Facility without prior notification at any time and at such a frequency as the Director may decide, or to have the Facility audited or inspected. The Licence Holder must make any records or documentation available to the Director upon request, as well as any other information the Director may require. The findings of these audits or inspections shall be made available to the Licence Holder within 60 (sixty) days of the end of the audit or inspection and shall not be treated as confidential.

11. RECORD KEEPING

- 11.1. The Licence Holder must keep records of all monitoring results, nuisances and complaints at the Facility.
- 11.2. All records required or resulting from activities required by this Licence must: -
 - 11.2.1. be legible,
 - 11.2.2. be made available and should form part of any audit report,
 - 11.2.3. be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable,
 - 11.2.4. be retained in accordance with documented procedures which are approved by the Department, and
 - 11.2.5. be made available upon the request of the Director.

12. REPORTING

- 12.1. The Licence Holder must, within 24 (twenty-four) hours, notify the Director of the occurrence or detection of any incident at the Facility, which has the potential to cause, or has caused water pollution, pollution of the environment, health risks or nuisance conditions.
- 12.2. The Licence Holder must, within 14 (fourteen) days, or as specified by the Director from the occurrence or detection of any incident referred to in condition 12.1, submit an action plan, which must include a detailed time schedule, and resource allocation signed off by management, to the satisfaction of the Director of measures taken to: -
 - 12.2.1. correct the impact resulting from the incident,
 - 12.2.2. prevent the incident from causing any further impact, and
 - 12.2.3. prevent a recurrence of a similar incident.
- 12.3. In the event that measures have not been implemented within 21 (twenty-one) days of the incident to address impacts caused by the incident referred to in condition 12.1, or measures which have been implemented are inadequate, the Director may implement the necessary measures at the cost and risk of the Licence Holder.
- 12.4. The Licence Holder must keep and maintain an incident and complaints register, which must be made available to both external and Departmental auditors for the purpose of their audits.
- 12.5. The Department must be notified within 7 (seven) days of any changes to the management of the Facility including the name of the incoming person together with evidence that such person has the required technical competence.
- 12.6. The Department must be notified within 14 (fourteen) days of the following changes: -
 - 12.6.1. Licence Holder's trading name, registered name or registered office address,
 - 12.6.2. Particulars of the Licence Holder's ultimate holding company (including details of an ultimate holding where a Licence Holder has become a subsidiary), and
 - 12.6.3. Steps taken with a view to the Licence Holder going into bankruptcy, entering into composition or arrangement with creditors.

12.7. All internal and external audit reports must be submitted to the Director within 30 (thirty) days from the date on which the auditor finalised the audit.

12.8. The Licence Holder must register and report to the Departmental Integrated Pollutant and Waste Information System (IPWIS), which can be accessed on the URL: <http://ipwis.pgwc.gov.za/ipwis3/public/>.

13. LEASING AND ALIENATION OF THE FACILITY

13.1. Should the Licence Holder want to alienate or lease the Facility, he/she shall notify the Director in writing of such an intention at least 120 (one hundred and twenty) days prior to the said transaction. Should the approval be granted, the subsequent Licence Holder shall remain liable to compliance with all Licence conditions.

14. TRANSFER OF LICENCE

14.1. Should the Licence Holder want to transfer holdership of this Licence, he/she must apply in terms of section 52 of the NEM:WA. Any subsequent Licence Holder shall be bound by the conditions of this Licence.

15. COMMENCEMENT

15.1. The activities hereby Licenced may not be commenced within 20 (twenty) days of the date of signature of this Licence.

15.2. Should the Licence Holder be notified by the Director of a suspension of the Licence pending any appeals decision on the authorized activities, he/she may not commence with the activities until authorised by the Director in writing.

15.3. After the 20 (twenty) day appeal period has expired and no good cause to extend the appeal period has been submitted, a written notice must be given to the Department that the activity will commence.

15.4. Subject to conditions 15.1 to 15.3, the authorised activities must commence within 5 (five) years from the date of this Licence. If commencement of the activity does not occur within the commencement period, the validity of this Licence lapses and a new application for a waste management licence must be made for the activity to be undertaken.

15.5. If the proponent anticipates that commencement of the activity would not occur within the commencement period, he/she must apply and show good cause for an extension of commencement date of the Licence 6 (six) months prior to its expiry date.

16. GENERAL

16.1. This Licence shall not be transferable unless such transfer is subject to condition 14 above.

16.2. This Licence shall not be construed as exempting the Licence Holder from compliance with the provisions of any National and Provincial Legislation and relevant Ordinance, Regulation, By-laws and relevant National Norms and Standards.

16.3. Transgression of any condition of this Licence could result in the suspension of the Licence by this Department.

16.4. Transgression of any condition of this Licence could result in the suspension of the Licence by the Director and may render the Licence Holder liable for criminal prosecution or other actions provided for in section 67(1) of the NEM:WA, 2008.

- 16.5. This Licence is valid for a period of 10 (ten) years from the date of signature of this Licence. The licence may be reviewed any time before that date. Based on the results of the review, especially compliance to Licence conditions or recommendations from the audit reports and or changing legislation, the Licence can be amended or withdrawn, or the validity thereof extended.
- 16.6. Should the Licence Holder want to conduct the waste management activity beyond the 10 (ten) year validity period, the Licence Holder must apply for a review 1 (one) year before the expiry date.
- 16.7. In terms of sections 28 and 30 of the National Environmental Management Act (Act No. 107 of 1998) (NEMA), and sections 19 and 20 of the National Water Act (Act No. 36 of 1998), any costs incurred to remedy environmental damage must be borne by the person responsible for the damage. It is therefore imperative that the Licence Holder reads through and understands the legislative requirements pertaining to the project. It is the Licence Holder's responsibility to take reasonable measures which include informing and educating contractors and employees about environmental risks of their work and training them to operate in an environmentally acceptable manner.

E. DISCLAIMER

The Western Cape Government, the Local Authority, committees or any other public authority or organisation appointed in terms of the conditions of the Licence shall not be responsible for any damages or losses suffered by the holder, developer or his/her successor in any instance where construction or operation subsequent to construction is temporarily or permanently stopped for reasons of non-compliance with the conditions as set out herein or any other subsequent document or legal action emanating from this decision.

Your interest in the future of our environment is greatly appreciated.

Yours faithfully,

Lance McBain-Charles
Acting Director: Waste Management

Date: 2023/06/24

CC: (1) Colleen McCreadie (The Environmental Practice)
(2) The Environmental Practice Projects (The Environmental Practice)

E-mail: colleen@enviroprac.co.za
E-mail: projects@enviroprac.co.za

ANNEXURE I

F. REASONS FOR HAVING GRANTED THE WASTE MANAGEMENT LICENCE:

The reasons for having granted the waste management licence, which include the factors affecting the broader development that were considered to ensure the effective implementation of this Licence, are explained below.

The following information was available for the Department's consideration of the application:

- (a) The information contained in the Application Form for a Waste Management Licence dated 9 May 2022, received by the Department on 17 May 2022.
- (b) The Final Scoping Report received by the Department on 4 July 2022, which was accepted by the Department on 9 September 2022.
- (c) The Final Environmental Impact Assessment Report received by the Department on 7 March 2023.
- (d) The comments raised by interested and affected parties during the required public participation processes.
- (e) An inspection done by Waleed Galvaan of this Department on the 15 February 2022.
- (f) Relevant information contained in the Department's information base.
- (g) The objectives and requirements of relevant legislation, policies, and guidelines, including section 2 of the NEMA.

A summary of the issues, which in the Department's view were of the most significance, are set out below.

ENVIRONMENT

GeT Steel (Pty) Ltd., new foundry is to be established on Erf 255, which are located at No.22 William Gourlay Street in Atlantis Industria. At this stage, Erf 255 is completely developed. Erf 255 is in the existing built-up portion of Atlantis Industria, which is identified and zoned for heavy industrial purposes. The immediate surrounding landscape is dominated by Industrial/Commercial Land Use. Undeveloped, industrial-zoned land is also located near Erf 255.

Erf 255 was developed in 1985 and no natural vegetation remains on the property. The entire site has been resurfaced to ensure a level and impermeable surface for the undertaking of the current scrap metal storage and shredding operation taking place on site. Historically the vegetation on site would have consisted of Cape Flats Dune Strandveld, categorized as an Endangered ecosystem, and therefore considered to be conservation worthy in certain instances. However, the completely developed nature of the site will not support any biodiversity or ecosystem regardless of the ecosystem threat status associated with the area.

The recovery and treatment of scrap steel categorised as general waste will comprise processes typical of a steel foundry. These processes are industrial in nature with the potential for significant impacts on the environment, due to dust emissions, combustion emissions, fugitive emissions, and environmental noise. Other potential impacts with a low significance risk to the environment include contamination of soil and groundwater resources, such as the underlain Atlantis Aquifer, which could potentially become contaminated with hydrocarbons. The activity is thus regulated by land use planning and environmental legislation.

All of the negative impacts are of Low Impact significance, except Ambient Air Quality Impacts during the operational phase, that has been assessed to be of Low-Medium Impact Significance by the appointed Air Quality Specialist, Soundscape Consulting.

Potential operational phase impacts: -

- Ambient Air Quality impacts due to dust and furnace emissions,
- Contamination of soil and groundwater,
- Impact on the natural environment (terrestrial and aquatic biodiversity) – Low to Negligible,
- Nuisances such as operational noise, increased traffic (receiving and dispatching of raw materials), dust (fugitive emissions),
- Socio-economic impacts – risk to health, and safety of employees, and
- Socio-economic benefits – employment opportunities; support of local business within community; increased investment opportunities for related industries and services, support service to the mining industry; contribution to waste-to-value chain and circular economy.

Positive impacts are expected to be significant and includes: -

- A sizeable quantum of investment in the metallurgical sector as a result of the capital investment by the facility in the industry,
- The facility will have the production capacity which will support the local economy in the provision of employment opportunities. As well as generate tax revenue for the government, and
- The facility represents local manufacturing, with an associated reduction in transportation costs (financial and environmental) relative to overseas products, as well as security of supply of steel goods to the South African manufacturing sector.

ALTERNATIVES

Due to the nature of the foundry processes, and the associated potential adverse impacts identified, the Licence Holder's consultants investigated several alternatives in order to avoid and minimize any such impacts. **Site, Activity, Emissions Abatement Equipment Technology and Furnace Technology** alternatives were considered. This is due to the need to locate such a heavy industrial activity on an appropriate site away from sensitive receptors, the need to establish a commercially viable facility which does not have unacceptable environmental impacts, that can be mitigated.

Foundry Activity Benefits

- Based on the proposed production design capacity of the facility, the facility can be considered as large-scale. 120 new employment opportunities for semi-skilled and skilled workers will be created. The Forge property was purchased for R20 million, and an additional approximate amount of R60 million will be invested in refurbishments and new equipment. This represents a sizeable quantum of investment in the metallurgical sector. This will stimulate the economy quite significantly.
- The facility will generate tax revenue for the government.

- The facility represents local manufacturing, with an associated reduction in transportation costs (financial and environmental) relative to overseas products, as well as security of supply of steel goods to the South African manufacturing sector.
- The surrounding area of Atlantis, which is acknowledged as a low-income area with a high unemployment rate, should benefit from the additional employment opportunities represented by the facility, secure households, money to spend at local shops, etc.

Waste Battery Recycling Plant (Discarded Activity Alternative)

Early in the development planning process, Get Steel (Pty) Ltd., considered establishing a waste battery recycling plant on Erf 255, to operate alongside the foundry. However, the battery plant was excluded as an option on Erf 255 for the reasons as discussed in the Final EIA Report.

Site Alternatives

Erf 255 was readily identified by Get Steel (Pty) Ltd., as optimal for the establishment of a foundry: the site has been developed for at least the last 40 years for the purposes of a steel forge, with suitable industrial and office buildings, site surfacing, truck turning areas, road access, etc. The zoning of Erf 255 allows for industrial use, and the established land use of the area is appropriate, the site is surrounded by either developed industrial facilities such as the Atlantis Foundry and Hi-Sense electronics manufacturers; or vacant properties zoned for industrial use. There is no need to investigate alternative sites.

Atmospheric Emissions Abatement System Alternatives

This included the consideration of a bag filter, cyclone, settling box, electrostatic precipitator, or wet scrubbers. Get Steel (Pty) Ltd., engineers have indicated that a bag filter system is considered to be the most efficient system for use in a foundry application. They have advised that the following design principles will be applied to the system included in the development proposal.

Hall Fume Extraction: -

- Each furnace will have its own dedicated hood extraction system. Each of the hood extraction elements will feed to a central extraction manifold where this gas will serve as the primary flue gas cooling medium. The hood system will include an automated pneumatic valve system that will increase extraction velocity whenever a furnace door is opened.
- In addition to the individual furnace extraction hoods, there will also be an apex extraction system to ensure fumes that have escaped the hood system will be drawn out in the apex of the structure.

Flue Gas Extraction: -

- Furnace flue gases will be consolidated and blended into the main extraction system. This blending ratio will ensure that gas temperatures entering the baghouse filter will be below 180 degrees celsius this system will have the added advantage of ensuring optimal air fuel mixtures for the furnaces resulting in a cleaner burn.
- The primary extraction fans will be located between the baghouse filtration and the stack. This will ensure negative pressure throughout the extraction system and the filtration of all air prior to expulsion.
- A section of the large non lagged ducting will be reused to increase the dwell time of the consolidated Flue gases allowing further cooling prior to blending with the Hall Fume cooling gases.

System Capacities:

- The system will be capable of extracting 30,000 Nm³/h air per hour and will be upgradable in 15,000 Nm³/h increments.

Baghouse Filtration:

- This installation will call for two standard 15,000 Nm³/h baghouse units that will operate in parallel. Each of the baghouse units will be equipped with 81 (eighty one) filtration elements offering a total filtration area of 160m² per unit.
- This system has been designed to ensure that there is air velocity of less than 1.3 metres per minute within the baghouse filtration chamber, which remains well below the permeability requirements for the filtration media.
- The system will be equipped with a reverse pulse bag cleaning system and hopper units for dust recovery.

The filtration media will be Crosible Nomex® with PolyTetraFluoroEthylene (PTFE) Membrane. Therefore, the air emission abatement system as described above, has been included in the development proposal.

Furnace Technology Alternatives

- Electric Induction Furnace (Preferred)
- Electric Arc Furnace

The furnaces proposed for the scrap steel foundry on Erf 255 in Atlantis Industria are Electric Induction Furnaces manufactured by Indemak in Turkey (www.indemak.com). Indemak is a leading company active in the foundry manufacturing sector in the Turkish and European markets. Indemak produces Medium Frequency Induction Melting Furnaces from 100kg to 10000kg capacity.

The No-Go Option

The No-Go Option is the alternative of not proceeding with the development of a new foundry on Erf 255. The No-Go Option includes Erf 255 remaining in its current state. This is undesirable, as the Erf 255 was already transformed many years ago and is considered to be ideal for the proposed development.

PUBLIC PARTICIPATION PROCESS (PPP)

The PPP comprised of the following: -

Scoping Report:

- Notification letters posted to adjacent landowners and occupiers, on 16/05/2022.
- Notification emails sent to Organs of State, Ward Councillor and community and business representative organisations, on 18/05/2022 & 14/06/2022.
- Site notices erected on boundary of site Notification letters hand delivered to neighbours without available postal addresses, on 18/05/2022.
- Advertisements placed in the regional Cape Times and local Weskus Nuus newspapers, on 17-18/05/2022.

- USB copy of report and appendices couriered to City of Cape Town (commenting authority), on 18/05/2022.
- Report and appendices uploaded to Enviroprac website for public access, on 18/05/2022.
- 30-day comment period provided, on 18/05/2022 – 21/06/2022.

Environmental Impact Assessment Report:

- Notification emails sent to Organs of State and other registered stakeholders, on 22/11/2022.
- Report and appendices uploaded to Enviroprac website for public access, on 22/11/2022.
- 30-day comment period provided, on 23/11/2022 – 12/01/2023.

Revised Environmental Impact Assessment Report:

- Notification emails sent to Organs of State and other registered stakeholders, on 03/02/2023.
- Report and appendices uploaded to Enviroprac website for public access, on 03/02/2023.
- 30-day comment period provided, on 03/02/2023 – 06/03/2023.

AUTHORITIES CONSULTED

- This Department's Directorate: Air Quality Management.
- This Department's Directorate: Development Management.
- This Department's Directorate: Pollution and Chemicals Management.
- City of Cape Town: Environmental and Heritage Management.
- City of Cape Town: Air Quality Management.
- City of Cape Town: Investment Facilitation Unit.

Comments and recommendations provided by the other relevant authorities have been considered in the evaluation of this application. Some concerns about this Facility were raised during the public participation processes, which the EAP responded to. Where possible and relevant, the conditions imposed by the authorities have been included in the Waste Management Licence.

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