

Draft Phasing Plan

DAS Steel Mini Steel Foundry

15 August 2012

---



DAEARD Reference : DM/0053/2011

---



**DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE CONSTRUCTION OF THE DAS STEEL MINI FOUNDRY**

<b>JEFFARES AND GREEN NO.:</b> 41190	<b>DATE:</b> 26 March 2012	<b>REPORT STATUS:</b> Draft
---	-------------------------------	--------------------------------


<b>CARRIED OUT BY:</b> PO Box 794 Hilton 3245 Phone: (033) 343 6789 Fax: (033) 343 6788	<b>COMMISSIONED BY:</b> DAS Steel (Pty) Ltd PostNet Suite 10243 Private Bag X7005 Hillcrest 3650 Durban RSA
--	--


<b>AUTHOR:</b> G von Mayer	<b>CLIENT CONTACT PERSONS:</b> Suresh Mirchandani
-------------------------------	--

**SYNOPSIS:**

**KEY WORDS:**  
FERROUS INDUSTRY, ENVIRONMENTAL AUTHORISATION, AIR EMISSIONS APPLICATION, WASTE MANAGEMENT LICENSE, CATO RIDGE, ETHEKWENI, KWAZULU NATAL.

© **COPYRIGHT:** Jeffares and Green (Pty) Ltd.

<b>QUALITY VERIFICATION:</b>	
This report has been prepared under the controls established by a quality management system that meets the requirements of ISO9001: 2008 which has been independently certified by DEKRA Certification under certificate number 90906882	

Verification	Capacity	Name	Signature	Date
By Author	Senior Scientist	G von Mayer		
Checked by	Associate	M van Rooyen		
Authorised by	Director			

## TABLE OF CONTENTS

<b>1</b>	<b>INTRODUCTION</b>	<b>I</b>
1.1	PROJECT BACKGROUND	I
1.1	PROJECT PROPONENT	I
1.2	SITE LOCATION	I
<b>2</b>	<b>PHASING PLAN</b>	<b>I</b>
2.1	KEY ASPECTS OF EACH PHASE	III

# 1 Introduction

## 1.1 Project Background

Secondary production of steel involves the refining of steel to produce higher quality steel or steel which is tailored to a specific specification.

### 1.1.1 Proposed Project

This project entails the construction of a secondary mini steel foundry (2x20Mt furnaces) and hot rolling mill in Cato Ridge. The proposed project uses technology commonly used internationally. Recovered steel is the main raw material and is processed to form steel billets, typically for the conversion into products for the construction industry.

The proposed project entails two development phases. These being the secondary steel foundry in Phase I and the Hot Rolling Mill in Phase II.

### 1.1 PROJECT PROPONENT

**Project applicant:** DAS Steel (Pty) Ltd

Trading name (if any):

Contact person:

Physical address:

Postal address:

Postal code:

Telephone:

E-mail:

	Suresh Mirchandani	
	119, Witch Hazel Ave, Hazel Park, Highveld Techno Park, Centurion0157.	
	Postnet Suit 10243 Private Bag X7005 Hillcrest	
	3650	Cell: +27(0)834402368
		Fax: +27(0)866279811
	Das1steel@hotmail.com	

## 1.2 Site Location

The proposed site is located on Eddie Hagen Drive, Cato Ridge in Kwazulu Natal.

# 2 Phasing Plan

The phasing plan provides an indication of the sequence and timeframes of the proposed facility from initiation to operation. The plan is indicated below in Figure 1.

Task	2012				2013				2014				2105			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Authorisation																
Site Establishment																
Construction Phase I																
Commissioning Phase I																
Operation Phase I																
Construction Phase II																
Commissioning Phase II																
Operation Phase II																

## **2.1 Key aspects of each Phase**

### **2.1.1 Authorisation**

Application made to:

- Department of Agriculture and Environmental Affairs – Provincial Authority under the NEMA Act
- Department of Environmental Affairs – National Licensing Authority under the NEM:WA;
- eThekweni Metropolitan Municipality, Health – Licensing Authority under NEM:AQA
- eThekweni Metropolitan Municipality – Scheduled Trades Permit under municipal by-laws
- eThekweni Metropolitan Municipality - Town Planning and Building Approval

### **2.1.2 Site Establishment**

Establishment of construction camp and contractors establishment;

Set up of pollution prevent as per Construction EMP;

Services installation.

~Duration 2 weeks

### **2.1.3 Construction Phase**

Construction of :

- Access and internal roadways;
- Stormwater attenuation infrastructure;
- Foundry Building;
- Abatement Equipment;
- Pollution Prevention Infrastructure;
- Installation of transformers and electrical reticulation;
- Offices and Changeroom Construction;
- Baseline Monitoring program commences; and
- Initialisation of ISO14001 EMS development.

#### 2.1.4 **Commissioning Phase**

- Testing and sign off of equipment, abatement systems and building inspections.
- Piloting of test production upto 50% production capacity;
- Classification and assessment of waste products according to WMP and existing legislation, norms and standards

#### 2.1.5 **Operation Phase I**

- Production of 90 000mt/annum of billets for export at plant capacity.

#### 2.1.6 **Construction Phase II**

- Installation of second induction furnace and convertor;
- Commencement of construction of Rolling Mill infrastructure; and
- Installation of rolling mill transformer upgrade.

#### 2.1.7 **Commissioning Phase II**

- Testing and sign off of equipment, abatement systems and building inspections.
- Piloting of test production upto 50% production capacity;
- Classification and assessment of waste products according to WMP and existing legislation, norms and standards

#### 2.1.8 **Operation Phase II**

- Production of 175 000mt/annum of billets;
- Commencement of 90 000mt rolling of billets; and
- Ongoing monitoring and auditing as per legislative and ISO14001 requirements