



Certificate Of Registration

IN TERMS OF THE NATIONAL NUCLEAR REGULATOR ACT, 1999 (ACT NO. 47 OF 1999)

CERTIFICATE OF REGISTRATION NO. COR-26 *Variation 1*

Certificate of Registration No. COR-26, is hereby granted by the National Nuclear Regulator (hereinafter referred to as the NNR) in terms of section 22 of the above Act

To

TISAND (PTY) LTD

Registration number: 1969/007724/07

ZULULAND TITANIUM (PTY) LTD

Registration number: 1971/007085/07

RICHARDS BAY TITANIUM (PTY) LTD

Registration Number: 2008/017523/07

RICHARDS BAY MINING (PTY) LTD

Registration Number: 2008/017906/07

Registered address : Administrative Block
The Farm RBM
No. 16317
Situated in the Administrative District
of Kwazulu Natal

who jointly trade as **RICHARDS BAY MINERALS** (hereinafter referred to as the holder) and whose liability in terms of section 32 of the above Act for nuclear damage shall be jointly and several,

subject to the terms and conditions set out herein.

PART 1

AUTHORISATION CONDITIONS

1.1 SCOPE

- 1.1.1 The holder is authorised to carry out activities associated with radioactive material as set out, and on the site as identified, in section 2.1 of this Authorisation.

1.2 HAZARD ASSESSMENT

- 1.2.1 Assessments, approved by the NNR, shall be conducted by the holder in respect of all the operations and activities involving radioactive material as set out in section 2.1 of this Authorisation and which could give rise to a risk of nuclear damage. The assessments must identify and quantify all potential radiation hazards:

1.2.1.1 to persons employed at or visiting the site

and

1.2.1.2 to members of the public.

- 1.2.2 Details of any proposed modification to existing facilities or amendment of any procedure or construction of any facility, which may have an effect on the risk of nuclear damage and which has not been addressed by the hazard assessments identified in section 2.2 of this Authorisation, together with a quantitative assessment of its impact on the risk of nuclear damage, shall be submitted to the NNR by the holder. Such proposals shall be approved by the NNR before being implemented.

1.3 OPERATIONAL LIMITATIONS

- 1.3.1 The limitations pertaining to normal operations and listed in section 2.3.1 of this authorisation shall be adhered to.
- 1.3.2 No activities involving the demolition or disposal of any plant used for the processing of radioactive material shall be undertaken prior to approval by the NNR of the radiation hazard assessment and the radiation protection programme for such activities.

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1.4 OPERATIONAL RADIATION PROTECTION

1.4.1 WORKFORCE

1.4.1.1 Based on the results of the assessments referred to in clause 1.2.1, programme embodying all aspects as required by NNR documents RD-006: "Requirements for the Control of Radiation Hazards: Mining and Minerals Processing", and RD-011: "Requirements for Medical Surveillance and Control of Persons Occupationally Exposed to Radiation: Mining and Minerals Processing", in the revisions specified in section 2.4.1, must be established and be submitted to the NNR for approval. These programmes must ensure and demonstrate that radiation doses to persons employed at the site and to visitors to the site are in compliance with the radiation dose limitation system set down in the NNR document RD-010: "Requirements for Radiation Dose Limitation: Mining and Minerals Processing", in the revision specified in section 2.4.1 of this Authorisation. The programmes, as approved by the NNR, shall be implemented by the holder.

1.4.1.2 The provisions contained in the revision of documents listed in section 2.4.1 of this Authorisation and submitted in terms of condition 1.4.1.1 of this Authorisation, shall be adhered to.

1.4.2 PUBLIC

1.4.2.1 Based on the results of the assessments referred to in clause 1.2.1, programmes embodying all aspects as required by NNR document RD-007: "Requirements for Control over Radioactive Effluent Discharges and Environmental Surveillance: Mining and Minerals Processing", in the revision specified in section 2.4.2 of this Authorisation, must be established and be submitted to the NNR for approval. These must ensure and demonstrate that radiation doses to members of the public are in compliance with the radiation dose limitation system set down in the NNR document RD-010: "Requirements for Radiation Dose Limitation: Mining and Minerals Processing", in the revision specified in section 2.4.1 of this Authorisation. The programmes, as approved by the NNR, shall be implemented by the holder.

1.4.2.2 The provisions contained in the revision of documents listed in section 2.4.2 of this authorisation and submitted in terms of condition 1.4.2.1 of this authorisation, shall be adhered to.

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1.5 RADIOACTIVE WASTE

- 1.5.1 A radioactive waste management programme embodying all the requirements contained in NNR document RD-004: "Requirements for Radioactive Waste Management: Mining and Minerals Processing", in the revision specified in section 2.5 of this Authorisation, shall be established and submitted to the NNR for approval.
- 1.5.2 The provisions contained in the revision of documents listed in section 2.5 of this Authorisation and submitted in terms of condition 1.5.1 of this Authorisation, shall be adhered to.

1.6 TRANSPORTATION

- 1.6.1 Transportation of radioactive material or of any equipment or objects contained with radioactive material off the site or on roads which are accessible to the public must be carried out in terms of the provisions of the Regulations for the Safe Transport of Radioactive Material of the International Atomic Energy Agency in the revision specified in section 2.6 of this Authorisation.
- 1.6.2 An annual report shall be submitted to the NNR detailing the number of consignments made during the preceding year, the radioactive content per consignment, the nature of the packaging and the names of the consignees.
- 1.6.3 The provisions contained in the revision of documents listed in section 2.6 of this authorisation and submitted in regard to condition 1.6.1 of this authorisation, shall be adhered to.

1.7 PHYSICAL SECURITY

- 1.7.1 A physical security system, approved by the NNR, which will prevent unauthorised access to areas containing radioactive material and will prevent the unauthorised removal of such material, shall be in place.
- 1.7.2 The provisions contained in the revision of documents listed in section 2.7 of this authorisation and submitted in terms of condition 1.7.1 of this authorisation, shall be adhered to.

1.8 OCCURRENCES

- 1.8.1 An occurrence reporting mechanism, approved by the NNR shall be established which will ensure that occurrences, including incidents and accidents as defined in the National Nuclear Regulator Act (Act No 47 of 1999), and as identified in the NNR document RD-012: "Notification Requirements for Occurrences: Mining and Minerals Processing", in the revision specified in section 2.8 of this Authorisation, are reported to the NNR by the holder in accordance with the

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provisions of that document and as specified by NNR document RD-009: "Verbal Emergency Communication with the National Nuclear Regulator: Mining and Minerals Processing", in the revision specified in section 2.8 of this Authorisation.

- 1.8.2 An emergency plan, approved by the NNR, shall be established to make provision for any occurrence involving radioactive material which gives rise to, or has the potential to give rise to, an unplanned exposure to radiation in excess of the respective annual effective dose limits for persons employed on the site, visitors to the site, and members of the public. This plan shall comply with the requirements contained in NNR document RD-008: "Requirements for Emergency Preparedness: Mining and Minerals Processing", in the revision specified in section 2.8 of this Authorisation.
- 1.8.3 The provisions contained in the revision of documents listed in section 2.8 of this Authorisation and submitted in terms of condition 1.8.1 and 1.8.2, shall be adhered to.

1.9 QUALITY MANAGEMENT

- 1.9.1 All activities carried out within the scope of this authorisation shall be subject to the requirements contained in the NNR document RD-005: "Quality Management Requirements for Activities Involving Radioactive Material: Mining and Minerals Processing", in the revision specified in section 2.9 of this authorisation.
- 1.9.2 The provisions contained in the revision of documents listed in section 2.9 of this authorisation and submitted in terms of condition 1.9.1 of this authorisation, shall be adhered to.

1.10 SCHEDULE

- 1.10.1 The programme, scheduling the achievement of compliance with the conditions of this authorisation, as set out in section 2.10 shall be adhered to.

This Certificate of Registration is effective from the date of issue.

Issued at Centurion on the 2nd day of June 2011.



B Mkhize
CHIEF EXECUTIVE OFFICER

PART 2

CONTENTS

DOCUMENT CONTROL TABLE

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SECTION 2.8 :	OCCURRENCES
SECTION 2.9 :	QUALITY MANAGEMENT
SECTION 2.10:	SCHEDULE

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DOCUMENT CONTROL TABLE
26 January 2011

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2.1	1	X												
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SECTION	PAGE	REVISION
2.10	1	0

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SECTION 2.1: SCOPE

2.1.1 The Authorised site is:

The surface area coloured in yellow on the diagram headed "Tisand Roads and Stockpiles",

and

the surface area demarcated with the barbed wire fence line on the diagram headed "New bulkwarehouse at Alton Bagging Plant on stand 1897 Richardsbay", annexed Controlled Copy 1 and Controlled Copy NNR of this authorisation.

2.1.2 The holder may, subject to the conditions in part 1 of this authorisation, use, possess, produce, store, and process radioactive material at and convey, cause to be conveyed and dispose of radioactive material from the site.

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SECTION 2.2: HAZARD ASSESSMENT

2.2.1	Reassessment Roasters	(Rev 0)	Risk Reassessment Emmissions Roaster.	Particulate
2.2.2	Mine HA	(Rev 0)	Hazard Assessment for Mining, MSP and Alton Bagging Areas.	
2.2.3	RBIT	(Rev 0)	Hazard Assessment for RBIT.	

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SECTION 2.3.: OPERATIONAL LIMITATIONS

- 2.3.1 Radioactive waste with a specific alpha (U-238, U-234, Th-230, Ra-226, Po-210, Th-232 and Th-228) activity exceeding 1000 Bq/g shall be stored in a facility approved by the NNR.

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SECTION 2.4.1: RADIATION PROTECTION PROGRAMME - WORKFORCE

2.4.1.1	RD-006	(Rev 0)	Requirements for the Control of Radiation Hazards: Mining and Minerals Processing.
2.4.1.2	RD-010	(Rev 0)	Requirements for Radiation Dose Limitation: Mining and Minerals Processing.
2.4.1.3	RD-011	(Rev 0)	Requirements for Medical Surveillance and Control of Persons Occupationally Exposed to Radiation: Mining and Minerals Processing.
2.4.1.4	RBM-RPF	(Rev 1)	Richards Bay Minerals – Radiation Protection Function.
2.4.1.5	Single ALI	(Rev 0)	The Determination of a Single Value for the ALI at RBM.
2.4.1.6	COP58/04	(Rev 0)	RICHARDS BAY MINERALS – CODE OF PRACTICE NO. 58 – Operational Protection.

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Page 1 (Rev 0)

SECTION 2.4.2: RADIATION PROTECTION PROGRAMME - PUBLIC

- | | | | |
|---------|--------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------|
| 2.4.2.1 | RD-007 | (Rev 0) | Requirements for the Control over Radioactive Effluent Discharges and Environmental Surveillance: Mining and Minerals Processing. |
| 2.4.2.2 | REPORT EHS/W/14/94 | (Rev 0) | Water Quality Management: Abbreviated Version of the Report on the Radiological Monitoring Programmes. |
| 2.4.2.3 | RBM58 SOP2 | (Rev 0) | Radiological Survey Procedures for Contaminated Equipment. |



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Page 1 (Rev 0)

SECTION 2.5: RADIOACTIVE WASTE

- | | | | |
|-------|----------|---------|--------------------------------------------------------------------------------|
| 2.5.1 | RD-004 | (Rev 0) | Requirements for Radioactive Waste Management: Mining and Minerals Processing. |
| 2.5.2 | COP58/05 | (Rev 0) | RICHARDS BAY MINERALS – CODE OF PRACTICE NO. 58 –Radioactive Waste. |

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SECTION 2.6: TRANSPORTATION

2.6.1 TS-R-1 (ST-1, Revised)

Regulations for the Safe Transport of
Radioactive Material 1996 Edition
(Revised).

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CONTROLLED COPY

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Page 1 (Rev 0)

SECTION 2.7: PHYSICAL SECURITY

2.7.1 SECURE (Rev 1) RBM Security.

2.7.2 COP58/07 (Rev 0) RICHARDS BAY MINERALS – CODE OF
PRACTICE NO. 58 – Physical Security.

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SECTION 2.8: OCCURRENCES

- | | | | |
|-------|----------|---------|-------------------------------------------------------------------------------------------|
| 2.8.1 | RD-012 | (Rev 0) | Notification Requirements for Occurrences: Mining and Minerals Processing. |
| 2.8.2 | RD-009 | (Rev 0) | Verbal Communication with the National Nuclear Regulator: Mining and Minerals Processing. |
| 2.8.3 | RD-008 | (Rev 0) | Requirements for Emergency Preparedness: Mining and Minerals Processing. |
| 2.8.4 | COP58/08 | (Rev 0) | RICHARDS BAY MINERALS – CODE OF PRACTICE NO. 58 – Occurrences. |



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Page 1 (Rev 0)

SECTION 2.9: QUALITY MANAGEMENT

- | | | | |
|-------|----------|---------|----------------------------------------------------------------------------------------------------------------|
| 2.9.1 | RD-005 | (Rev 0) | Quality Management Requirements for Activities involving Radioactive Material: Mining and Minerals Processing. |
| 2.9.2 | COP58/09 | (Rev 0) | RICHARDS BAY MINERALS – CODE OF PRACTICE NO. 58 – Quality Management. |

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SECTION 2.10: SCHEDULE

2.10.1 SCHEDULE

(Rev 5) Compliance Programme Schedule.

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**REGULATION OF NATURAL SOURCES
DEPARTMENT**

CORRESPONDENCE APPROVAL FORM

General Information about the Correspondence			
Responsible Person	S Masike		
Name of Holder	Richards Bay Minerals		
Authorisation Number	COR-26		
Type of Submission	COR update		
Title of Submission	COR-26: RICHARDS BAY MINERALS: AUTHORISATION CHANGE REQUEST		
Date Received	2010-03-11	Reference Number (Incoming)	COR26A0128
Date Responded (RO)	2011-01-24	Reference Number (Outgoing)	
Date letter sent/faxed			
File Directory and Name	O-drive/NTNS/RENS/MIMP/SBM/APPLi/COR26/COR26A0128		
Authorization Change Request Information			
ACR Number	ACR038		
Document Short Name	Update of COR-26		
Section of COR to be revised			
New			
Revised	R	Revision Number	
Delete			
Contact Details for Holder or Applicant			
Address Corres. To: (Duly Authorised Person)	Mr. J.Jacobs	Designation	General Manager : SHEQ
For Attention	Mr. J.Jacobs	Designation	General Manager : SHEQ
Fax No.	035 – 901 3480/1	Tel. No.	035 – 901 3111
Authorisation of Correspondence			
Manager/PCA/PCGA	pp Klompze	Date	26/01/11
Outgoing Document Checked for Administration Compliance			
Signature		Date	

Enquiries: S. Masike

LB/35/6/11/26

Our Reference:

Your Reference: COR26A0128

24 January 2011

The General Manager
Richards Bay Minerals
P.O. Box 401
Richards Bay
3900

ATTENTION: J Jacobs

Dear Sir

COR-26 RICHARDS BAY MINERAL

Your letter dated 01 March 2010 and the associated attachments have reference.

Find attached the Record of Decision (ROD) for your authorisation change request (ACR).

Should you have questions regarding the above or attached, please do not hesitate to contact the NNR.

Please address all correspondence to the Manager: Regulation of Natural Sources.

Yours faithfully

T TSELANE

MANAGER: REGULATION OF NATURAL SOURCES



Regulation of Natural Sources Department

Record of Decision

LB/35/6/11/26

DATE:24 January 2011

Re- Authorisation Change Request for update of Certificate of Registration

1. INTRODUCTION

A Certificate of Registration COR-26 has been granted by the National Nuclear Regulator in terms of section 22 of the National Nuclear Regulator, Act, 199 (Act no. 47 of 1999) for three companies listed below which have jointly traded as Richards Bay Minerals:

- Richards Bay Iron and Titanium (PTY) LTD
Registration number : 70/4013
- Tisan (PTY) LTD
Registration Number 69/7724
- Zululand Titanium (PTY) LTD
Registration number : 71/07085

In 2009 a Broad Based Economic Empowerment transaction was concluded as part of a corporate restructuring to include additional shareholders.

An Authorisation Change Request(ACR) was, therefore, made to update the Certificate of Registration COR-26 to include the additional shareholders. The five companies (see attached) that now jointly trade as Richards Bay Minerals are, thus:

- Richards Bay Iron and Titanium (PTY) LTD
Registration number : 1970/004013/07
- Tisan (PTY) LTD
Registration Number 1969/007724/07

- Zululand Titanium (PTY) LTD
Registration number : 1971/007085/07
- Richards Bay Titanium (PTY) LTD
Registration number: 2008/017523/07
- Richards Bay Mining (PTY) LTD
Registration number: 2008/017906/07

2. TECHNICAL FINDINGS FROM THE SUBMISSION

2.1 GENERAL COMMENTS

- The only change in the Certificate of Registration (COR) is the number of shareholders reflected in the COR-26

2.2 SPECIFIC COMMENTS

- The scope of the holder (as specified in section 2.1 of COR-26) has not changed.

3. KEY FACTORS THAT LED TO THE DECISION


The following key factor was considered important to the outcome of the decision:


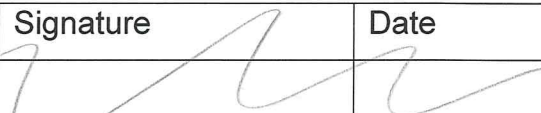
- There has been no change to the process for which COR-26 has been granted (i.e. the scope as specified in section 2.1 of COR-26 has not changed)

4. CONCLUSION AND RECOMMENDATIONS

It is, therefore, recommended the Certificate of Registration (COR-26) be updated to reflect all shareholders trading as Richards Bay Minerals.

5. QUALITY ASSURANCE TRAIL

THIS ROD WAS PREPARED BY:			
Name	Designation	Signature	Date
Ms S. Masike	Regulatory officer: RENS		24/01/2011

THIS ROD WAS REVIEWED BY			
1. Name	Designation	Signature	Date
Mrs KL Mampe	Acting Process Co-ordinator: Authorisation		27/01/11
<u>Remark/Comment:</u> Recommendation Supported.			
2. Name	Designation	Signature	Date
Mr T. Tselane	Manager: RENS		
<u>Remark/Comment:</u>			
3. Name	Designation	Signature	Date
Mr O. Phillips	Senior Manager: NTNS		

4. Name	Designation	Signature	Date
Mr M.Msebenzi	CTO		
<u>Remark/Comment:</u>			
5. Name	Designation	Signature	Date
Mr G. Nhlapho	Legal Advisor		
<u>Remark/Comment:</u>			

THIS DOCUMENT WAS APPROVED BY			
Name	Designation	Signature	Date
Adv B. M. Mkhize	NNR CEO		