

# DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND TOURISM REPUBLIC OF SOUTH AFRICA

Tel: (012) 310-3911 Fax: (012) 322-2682

### **FAX COVER SHEET**

		DATE:	18/02/2008	? ?
TO:	Ms Carol Streaton		OF THE PROPERTY OF	i 
ORGANISATION:	Eskom Holdings Ltd: Transmission Division			
FAX:	(011) 800 3917		A A A A A A A A A A A A A A A A A A A	
FROM:	Thabiso Phooko			7 h
TEL:	(012) 310-3290	ROOM NO:	Fedsure Forum	3 402
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SUBJECT:	APPLICATION FOR ENVIRONM THE PROPOSED TWO HYDRA- THE EXPANSION OF HYDRA S (I))	GAMMA 785KV TF	ransmission pov	VER LINES AND
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MESSAGE:			***	;
CC	Ms. Rebecca Thomas Boh	lweki Environmenta	Fax: (011) 79	3 6010



Private Bag X447, Pretoria, 0001 • Fadsure Building, 315 Pretorius Street, Pretoria, 0002, Tel: (+27 12) 310 3911 Fax: (+27 12) 322 2682

Reference: 12/12/20/871 Enquiries: Ms Mosili Ntene

Telephone: (012) 310 3031 Fax: (012) 320 7539 E-mail: mntene@deat.gov.za

Ms Carol Streaton Eskom Holdings Ltd: Transmission Division P O Box 1091 JOHANNESBURG 2000

Fax no: (011) 800 3917

PER FACSIMILE / MAIL

Dear Ms Streaton

APPLICATION FOR ENVIRONMENTAL AUTHORISATION R. 387: CONSTRUCTION OF THE PROPOSED TWO HYDRA-GAMMA 765KV TRANSMISSION POWER LINES AND THE EXPANSION OF HYDRA SUBSTATION (R. 386 Item 12, 14, 15 AND R.387 (c), 1(I))

With reference to the abovementioned application, please be advised that the Department has decided to grant authorisation. The environmental authorisation and reasons for the decision are attached herewith.

In terms of regulation 10(2) of the Environmental Impact Assessment Regulations, 2006, you are instructed to notify all registered interested and affected parties (IAPs), in writing and within seven (7) calendar days of the date of this letter, of the Department's decision in respect of your application as well as the provisions regarding the making of appeals that are provided for in the regulations.

Your attention is drawn to Chapter 7 of the Regulations which regulates appeal procedures. Attached please find a simplified copy of the appeals procedure to be followed. Kindly include a copy of this procedure with the letter of notification to IAPs.

A copy of the official appeal form can be obtained from:

Mr PKM Retief, Appeals Administrator, Tel: 012 310 3705, <a href="mailto:pretief@deat.gov.ze">pretief@deat.gov.ze</a>; or

Mr H Grovè, Appeals Administrator, Tel: 012 310 3070, <a href="mailto:hgrove@deat.gov.ze">hgrove@deat.gov.ze</a>, at the Department.

Should you wish to appeal any aspect of the decision, you must, inter alia, lodge a notice of intention to appeal with the Minister, within 10 days of receiving notice of the decision, by means of one of the following methods:

By facsimile:

(012) 310 3688;

By post:

Private Bag X447, Pretoria, 0001; or

By hand:

2nd Floor, Fedsure Form Building, North Tower, cor. Van der Walt and

Pretorius Streets, Pretoria.

Should the applicant decide to appeal, the applicant must serve a copy of its notice of intention to appeal on all registered IAPs as well as a notice indicating where, and for what period, the appeal submission will be available for inspection.

Please include the Department, attention of the Director: Environmental Impact Evaluation, in the list of IAPs, notified through your notification letter of the decision, for record purposes.

You are strongly advised to refrain from the initiation of any construction activities prior to the conclusion of the appeals process. All construction activities initiated during the appeals process will be done solely at your risk.

Yours faithfully

Ms Pam Yako

Director - General

Department of Environmental Affairs and Tourism

Letter signed by: L McCourt

Designation: Chief Director, Env. Impact Management

Date: 18/2/2001

CC: Ms Rebecca Thomas

Bohlweki Environmental

Fax: (011) 798 6010

APPEALS PROCEDURE IN TERMS OF CHAPTER 7 OF R. 385 OF 2006 TO BE FOLLOWED BY THE APPLICANT AND INTERESTED AND AFFECTED PARTIES UPON RECEIPT OF NOTIFICATION OF AN ENVIRONMENTAL AUTHORISATION

APPLICANT	INITERIOR			
	INTERESTED AND AFFECTED PARTIES			
1 Paris and	(IAPs)			
1. Receive notice of Environmental Authorisation from	Receive notice of Environmental			
the relevant Competent Authority	Authorisation from Applicant/Consultant			
2. Within 10 days of receipt of notification, notify the	2. Within 10 days of receipt of notification, notify			
relevant Competent Authority and all IAPs of	the relevant Compate to Authorize the			
intention to appeal	the relevant Competent Authority of intention			
3. Notification served by the Applicant must include:	to appeal			
3.1. A copy of the notice of intention to appeal; and	3. Appellant must serve on the Applicant			
3.2. A notice indicating where and for what period the	3.1. A copy of the notice of intention to appeal			
appeal submission will be a little to the	3.2. A notice indicating where and for what			
appeal submission will be available for inspection	period the appeal submission will be			
by all IAPs	available for inspection by the applicant			
4. The appeal must be submitted to the relevant	4. The appeal must be submitted to the relevant			
Competent Authority or delegated organ of State	Competent Authority of delegated organ of			
within 30 days of lodging of the notice of intention	State within 30 days of lodging of the notice			
to appeal	of intention to appeal			
5. A person or organ of state that receives notice of	5. An Applicant that receives notice of an			
an appeal may submit a responding statement to	appool may sub-it- assumed to an			
the relevant Competent Authority or delegated	appeal may submit a responding statement			
organ of state within 30 days from the date that the	to the relevant Competent Authority or			
appeal submission was made available for	delegated organ of State within 30 days from			
uebection by the appellant	the date the appeal submission was made			
Inspection by the appellant	available for inspection by the appellant			
NOTES:				

### 1. An appeal against a decision must be lodged with:-

- a) the Minister if the decision was issued by the Director- General (or another official) acting in his/ her capacity as the delegated Competent Authority
- b) the MEC if the decision was issued by the Head of Department (or another official) acting in his/ her capacity as the delegated Competent Authority
- c) the delegated organ of state where relevant.

### 2. An appeal lodged with:-

- a) the Minister must be submitted to the Department of Environmental Affairs and Tourism
- b) the MEC must be submitted to the provincial department responsible for environmental
- the delegated organ of state, where relevant, must be submitted to the delegated organ of state

#### 3. An appeal must be:-

- a) on an official form obtainable or published by the relevant department
- b) accompanied by:
- a statement setting out the grounds of appeal
- supporting documentation which is referred to in the appeal and is not available to the relevant Competent Authority
- a statement that the appellant has complied with regulation 62 (2) or (3) together with copies of the notices referred to in regulation 62
- the prescribed appeal fee, if any,
- 4. A copy of the official appeal form can be obtained from: See authorisation cover letter.

## **Environmental Authorisation**

Authorisation register number:

Last amended:

Holder of authorisation:

12/12/20/871

Eskom Holdings Limited

Location of activity:

De Aar

### Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this environmental authorisation, that the applicant should be authorised to undertake the activity specified below.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

### **Activities authorised**

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, 2006 the Department hereby authorises —

#### ESKOM HOLDINGS LIMITED

with the following contact details -

Ms Carol Streaton
P O Box 1091
JOHANNESBURG
2000

Tel: 011 800 5411 Fax: 011 800 3917

to undertake the following activity/ activities (hereafter referred to as "the activity")

R. 386;

12 The transformation or removal of indigenous vegetation of 3 hectares or more or of any size where the transformation or removal would occur within a critically endargered or an



endangered ecosystem listed in terms of section 52 of the National Environmental Management: Biodiversity Act, 2004 (Act 10 of 2004).

14 The construction of masts of any material or type and of any height, including those used for telecommunication broadcasting and radio transmission; and

15 The construction of a road that is wider than 4 meters or that has a reserve wider than 6 meters, excluding roads that fall within the ambit of another listed activity or which are access roads less than 30 meters long.

#### R. 387:

- 1 Construction of facilities or infrastructure, including associated structures or infrastructure, for-
- (c) the above ground storage of a dangerous good, including petrol, diesel, liquid petroleum gas or paraffin, in containers with a combined capacity of 1000 cubic meters or more at any one location or site including the storage of one or more dangerous goods, in a tank farm; and
- (I) the transmission of above ground electricity with a capacity of 120 kilovolts or mole.

for the construction of two new 765kV Transmission power lines between Hydra substation near De Aar and the proposed Gamma substation near Victoria West within a servitude width required for the construction of the power lines of 80m per 765kV line with a separation of 80m from centre line to centre line where the 765kV line is constructed parallel to any other power line, as well as expansion of the existing Hydra substation, as described in the final Environmental Impact Assessment Report (EIAR) dated October 2007 page 1-4,

along a route as indicated on figure 1-3 in the EIAR dated October 2007, which fall within the jurisdiction of *Ubuntu* and *Emthanjeni Municipalities* and the *Pixley Ka Serine District Municipality* of the *Western Cape Province*, hereafter referred to as "the property".

The granting of this environmental authorisation is subject to the conditions set out below.

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### **Conditions**

#### Scope of authorisation

- Authorisation of the activity is subject to the conditions contained in this authorisation, which conditions form part of the environmental authorisation and are binding on the holder of the authorisation.
- 1.2 The holder of the authorisation shall be responsible for ensuring compliance with the conditions by any person acting on his or her behalf, including but not limited to, an agent, sub-contractor, employee or person rendering a service to the holder of the authorisation.
- 1.3 The activity authorised may only be carried out at the property indicated above.
- 1.4 Any changes to, or deviations from, the project description set out in this authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further authorisation in terms of the regulations.
- 1.5 This activity must commence within a period of four (4) years from the date of issue. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken.
- This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.
  - 1.6.1 Relevant legislation that must be complied with by the holder of this authorisation include:
    - Compliance with the requirements of Section 38 of the National Heritage
      Resources Act, Act 25 of 1999, including the comments and
      recommendations of the relevant heritage resources authority responsible
      for the area in which the development is proposed.

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- Should fill material be required for any purpose, the use of borrow pits must comply with the provisions of the Minerals Petroleum Resources Development Act, 2002 (Act No. 28, 2002) administered by the Department of Minerals and Energy. No excavation for infill materials may be done in identified sensitive areas, watercourses and within 1:100 year food lines.
- Provisions of the National Water Act, 1998 (Act 36 of 1998).
- Provisions of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) and the Explosives Regulations (2003) promulgated under the Act.
- Provisions of the Hazardous Substances Act, 1973 (Act 15 of 1973) and associated regulations as well as SANS 10228 and SANS 10089 codes.
- Provisions of the National Building Regulations and Standards Act, 1997
   (Act 103 of 1997) and the provisions of relevant municipal by-laws.
- No endangered and / or protected vegetation may be removed without the required permits from the relevant Provincial Nature Conservation department.
- Construction of access roads must be kept to a minimum and where required, such access roads shall be properly planned and designed to relevant SANS codes. Existing access roads must be used wherever possible.

#### Appeal of authorisation

- 1.7 The holder of the authorisation must notify every registered interested and affected party, in writing and within 7 (SEVEN) calendar days, of receiving notice of the Department's decision to authorise the activity.
- 1,8 The notification referred to in 1.7 must
  - 1.8.1 Specify the date on which the authorisation was issued;
  - 1.8.2 Inform the interested and affected party of the appeal procedure provided for In Chapter 7 of the regulations;
  - 1.8.3 Advise the interested and affected party that a copy of the authorisation will be furnished on request; and

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#### 1.8.4 Give the reasons for the decision.

#### Management of the activity

- 1.9 An Environmental Management Plan ("EMP") for construction which fulfils the requirements of this authorisation must be compiled and submitted to the Department for approval before the construction process commences. The EMP must be compliant to regulation 34 of the regulations and include—
  - 1.9.1 Layout drawings detailing the layout of the substation site, drainage systems for storm water and oil management systems and construction camp. The design of the facilities must take into consideration the local environmental attributes, especially where crossing streams and watercourses and ensure the free flow of water and movement of fauna in streams and drainage lines at all times during construction.
  - 1.9.2 Siting, demarcation and management of material storage and vehicle servicing areas used by the contractor which must be outside of the 1:50 year flood line or at least 100 meters away from any watercourses.
  - 1.9.3 Measures for waste avoidance, minimisation and disposal of waste at an appropriate facility are imposed on the building contractors.
  - 1.9.4 All work areas are supplied with proper sanitation facilities which must be outside of the 1:50 year flood line or at least 100 meters away from any watercourses.
  - 1.9.5 Measures for storm water management and control of polluted runoff water at sites where concrete batching or use takes place to prevent contamination of storm water by any substance used during construction.
  - 1.9.6 Measures to ensure temporary structures for crossings of drainage lines and streams do not cause erosion, flooding or accumulation of debris during rain events.
  - 1.9.7 Measures for the rehabilitation of all areas disturbed during the construction phase of the project, excluding those areas where permanent structures are erected, are implemented.
  - 1.9.8 Measures to protect indigenous vegetation by minimising the construction footprint as much as possible

- 1.9.9 Measures to ensure construction damage to embankments at watercourses is limited.
- 1.9.10 Measures for the storage and management of topsoil for use during rehabilitation upon completion of the construction process. Topsoil storage heaps may not be higher than 1,5m and should be lightly compacted to prevent wind erosion.
- 1.9.11 Measures for the protection of identified heritage resources. Should any artefacts be exposed during excavation for the purpose of laying foundations, construction in the vicinity of the finding must be stopped. An archaeologist must be called to the site for inspection. Under no circumstances shall any artefacts be destroyed or removed from the site. The South African Heritage Resource Agency must be contacted to this effect.
- 1.9.12 Measures to ensure all nuisance factors caused during construction such as dust, and as captured in the complaints register, are properly addressed and measures for mitigation implemented.
- 1.9.13 Measures for dust control during the construction phase, especially at the Hydra substation expansion site.
- 1.9.14 Measures to ensure identified sensitive sites or areas are properly marked and protected during the construction phase of the activity.
- 1.9.15 Measures for the search, rescue and relocation of identified blant species.

  Rehabilitation and landscaping must be done with indigenous vegetation and no declared alien vegetation may be used.
- 1.9.16 Measures for traffic management at road intersections with district, provincial and national roads are implemented to ensure the nuisance factor of additional traffic to the surrounding road users are minimised.
- 1.9.17 A monitoring system must be put in place to detect any leakage or spillage of coolants from all oil containing plant or equipment during their use.
- 1.9.18 Measures for the control of influx of job seekers at Hydra substation site extension and along sections of the line at the construction camps.
- 1.9.19 All recommendations and mitigation measures as proposed in the EIAR dated

  November 2007 forms part of this environmental authorisation and must be implemented as part of the EMP.
- 1.9.20 Measures to ensure access roads are kept to a minimum and are clearly marked.

1.10 Once approved by DEAT, the construction EMP will be seen as a dynamic document. However, any changes to the EMP must be submitted to the authorities for approval before such changes could be effected. A copy of the approved EMP must be submitted to the provincial department.

#### Monitoring

- 1.11 The applicant must appoint an Environmental Control Officer (ECO) that will have the responsibility of implementing the approved EMP.
  - The ECO shall be appointed before the start of construction and the authorities must be notified of such an appointment for communication purposes.
  - The ECO shall submit a quarterly environmental compliance report, in writing, to the Department, attention of the Director: Environmental Impact Evaluation, and copy the Applicant with such report. This report shall include a description of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO. The report must clearly reflect the reference number of the project on the cover page.
  - The ECO shall maintain the following on site:
    - A site diary.
    - o Copies of all reports submitted to the Department,
    - A schedule of current site activities including the monitoring of such activities.
    - A complaints register of all public complaints and the remedies applied to such complaints.
  - The ECO shall remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is handed over to Eskom by the contractor for operation.

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#### Recording and reporting to the Department

- 1.12 The holder of the authorisation must submit an environmental audit report to the Department upon completion of the construction and rehabilitation activities. The environmental audit report must
  - 1.12.1 Indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the Environmental Authorisation conditions as well as the requirements of the EMP.
  - 1.12.2 Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in this development.

#### Commencement of the activity

1.13 Fourteen (14) days written notice must be given to the Department that the activity will commence. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence.

#### Operation of the activity

- 1.14 Fourteen (14) days written notice must be given to the Department that the activity operational phase will commence.
- 1.15 The applicant must compile an operational EMP for the operational phase of the activity that includes:
  - 1.15.1 Procedures for the regular inspection and maintenance of the power lines servitude and substation area at the Hydra substation to ensure that environmental degradation is prevented and possible impacts due to operational and maintenance programmes are mitigated.
  - 1.15.2 Measures to ensure identified sensitive sites or areas along the servitude are properly protected during the operational and maintenance phase of the activity.

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#### Site closure and decommissioning

1.16 Should the use of the facilities ever cease or become redundant, the applicant shall undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at that time.

#### General

- 1.17 A copy of this authorisation must be kept at the property where the activity will be undertaken. The authorisation must be produced to any authorised official of the Department who requests to see it and must be made available for inspection by any employee or agent of the holder of the authorisation who works or undertakes work at the property.
- 1.18 Where any of the applicant's contact details change, including the name of the responsible person, the physical or postal address and/ or telephonic details, the applicant must notify the Department as soon as the new details become known to the applicant.
- 1.19 The holder of the authorisation must notify the Department, in writing and within 48 (fourty eight) hours, if any condition of this authorisation cannot be or is not adhered to. Any notification in terms of this condition must be accompanied by reasons for the non-compliance. Non-compliance with a condition of this authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, 1998 and the regulations. In the event that the predicted impacts exceed the significance as predicted by the Independent consultant in the final environmental impact report dated November 2007 and supporting documentation, the authorisation may be withdrawn after proper procedures have been followed.
- 1.20 National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the applicant or his successor

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in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the applicant with the conditions of authorisation as set out in this document of any other subsequent document emanating from these conditions of authorisation.

Date of environmental authorisation:

Ms Pam Yako

Director - General

Department of Environmental Affairs and Tourism

Letter signed by: Lize McCourt

Designation: Chief Director: Environmental Impact Management

### **Annexure 1: Reasons for Decision**

#### 1. Background

The applicant, Eskom, applied for authorisation to carry out the following activity -

R. 386:

12 The transformation or removal of indigenous vegetation of 3 hectares or more or of any size where the transformation or removal would occur within a critically endangered or an endangered ecosystem listed in terms of section 52 of the National Environmental Management: Biodiversity Act, 2004 (Act 10 of 2004).

14 The construction of masts of any material or type and of any height, including those used for telecommunication broadcasting and radio transmission; and

15 The construction of a road that is wider than 4 meters or that has a reserve wider than 6 meters, excluding roads that fall within the ambit of another listed activity or which are access roads less than 30 meters long.

R. 387:

- 1 Construction of facilities or infrastructure, including associated structures or infrastructure, for-
- (c) the above ground storage of a dangerous good, including petrol, diesel, liquid petroleum gas or paraffin, in containers with a combined capacity of 1000 cupic meters or more at any one location or site including the storage of one or more dangerous goods, in a tank farm; and
- (i) the transmission of above ground electricity with a capacity of 120 kilovolts or more.

for the construction of two new 765kV Transmission power lines between Hydra substation near De Aar and the proposed Gamma substation near Victoria West within a servitude width required for the construction of the power lines of 80m per 765kV line with a separation of 80m from centre line to centre line where the 765kV line is

constructed parallel to any other power line, as well as expansion of the existing Hydra substation, as described in the final Environmental Impact Assessment Report (EIAR) dated October 2007 page 1-4,

The applicant appointed Bohlweki Environmental to undertake a Scoping / Environmental Impact Assessment (EIA) process and to compile an EIAR as required by regulation R. 385, 2006.

### 2. Information considered in making the decision

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

- a) The information contained in the EIAR dated 19 October 2007 including the specialist studies;
- b) The comments received from interested and affected parties as included in the updated comments and response report dated November 2007;
- c) The objectives and requirements of relevant legislation, policies and guidelines, including section 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998); and
- d) The previous Record of Decision (ROD) issued by the Department in 2005 for the Hydra-Gamma #1 765kV Transmission power line.

### Key factors considered in making the decision

All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) The requirement for the installation of the two 765kV Transmission power lines and Hydra substation extension is urgent to ensure a secure supply of electricity to the Cape region.
- b) This project is undertaken to ensure that Eskom meet its mandate to supply the electricity needs of the Cape region and South Africa.

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- c) A detailed public participation process was undertaken and the consultant has satisfied the minimum requirements as prescribed in the EIA regulations, 2006 for public involvement.
- d) As part of the EIA process, Bohlweki Environmental, being the principal consultancy, appointed a number of environmental specialists to identify potential environmental impacts associated with the proposed construction works and to further propose feasible mitigation measures to mitigate the identified impacts.
- e) Eskom has a fully negotiated servitude for the proposed Transmission power lines as indicated by the landowner schedule provided to the Department.

#### 4. Findings

After consideration of the information and factors listed above, the Department made the following findings -

- It is a detailed EIAR that includes the identification and assessment of impacts.
- The procedure followed for the impact assessment has been adequate for the decision-making process.
- All legal and procedural requirements have been met.
- There has been sufficient consultation with IAPs.
- The information contained in the EIAR is credible.
- Adequate assessment of the main identified issues and impacts have been done.
- The area proposed for the placement of the proposed two 765kV Transmission power lines is adjacent to existing power line servitudes, therefore combining services in one corridor except for the first section where a deviation was required.
- The proposed development is compatible with the proposed site for the development.
- A project specific EMP will be compiled and submitted to the department for approval and will be implemented by Eskom to manage the identified environmental issues and ensure mitigation measures are implemented for the identified impacts of the construction process.

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In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the proposed 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 proposed activity can be mitigated to acceptable levels. The application is accordingly granted.

