



Mining Services

Title	The construction of facilities for the storage handling of bulk emulsion at iMpunzi Mining Complex.	
Status	Final BID(Rev 2)	July 2012.
Ref	12/5850	BID of iMpunzi Emulsion Facility

## **Background Information Document iMpunzi Mining Complex AEL Mining Services**

### **AEL's iMpunzi Mine site**

iMpunzi Mining Complex is a large export bituminous coal mining operation located 110 Km East of Johannesburg and 27 Km south of Witbank. The complex consist of two underground mines, Phoenix colliery and Arthur Taylor Colliery and opencast mine ATCOM (Arthur Taylor Colliery Opencast mine).

AEL will be supplying ATCOM with emulsion explosives and this entails building of a new emulsion production facility on iMpunzi property.

### **Emulsion explosives**

Emulsion explosives are a key mining product made at iMpunzi. They form part of the bulk explosives systems and are inherently safe until they are finally mixed into the blasting hole and primed with a powerful detonator

### **Current proposal**

The current proposal is the erection of bulk emulsion silos. This will entail

- An area 100 metres x 50 metres , with offices and ablution facilities
- Storage for 2 x 70 ton bulk emulsion silos complete with bunds and effluent containment area
- A gassing mixing unit which will include gassing chemical storage and solution mixing tank and pumping facility
- Water filling point for MMU's for the use of process hose lube water
- 2 LDV vehicles
- The site will accommodate seven people

### **Waste treatment**

The nature of the application of emulsion in the mining operation is such that from time to time spillage of the emulsion occurs. The mines collect this and AEL undertakes to recover the key ingredients. This combined with some waste product generated from time to time in its own plants is treated at the existing facility. AEL has a programme of minimizing these resource wastages by both improvements of procedures and by recover of the ingredients that are used to manufacture the emulsion

### **Environmental Impact Assessment process**

AEL is committed to maintaining a healthy environment. Not only due to its legal obligations but also as part of its environmental policy. AEL would like to invite environmental comment on its proposed changes.

You have been identified as a potentially interested and affected party

Title	The construction of facilities for the storage handling of bulk emulsion at iMpunzi Mining Complex.	
Status	Final BID(Rev 2)	July 2012.
Ref	12/5850	BID of iMpunzi Emulsion Facility

### What it means to the area and you

The AEL bulk emulsion facility will be located on Steenkoolspruit 18 IS portion 7 which due to surrounding mining activities is not accessible to the general public. The project will necessitate some construction and installation of equipment for the facility.

The project is not expected to bring about any negative changes to the existing physical, ecological or social environment.

### Legal requirements

Although it is not expected that the construction will make any significant change to the environment, it is necessary, in terms of the Environmental Impact Assessment Regulations (NEMA 107/98) dated 18 June 2010 to carry out a Environmental Basic Assessment, which will be submitted to the Mpumalanga Department of Economic Development, Environment and Tourism (DEDET) for Environmental authorisation.

In terms of chapter 6 of Regulations You are cordially invited to contact the environmental consultant below before the 31 August 2012. If you wish to know more about the process or the project, and/or you wish to become a registered Interested and Affected Party. Should there be sufficient interest or significant concerns further public interactions will be held.

**Chris Williams**

**Willchem Risk & Environmental Consultants**

Tel 011 462 6052

Fax 011 704 4593

[willchem@icon.co.za](mailto:willchem@icon.co.za)

## Proposed AEL iMpunzi Emulsions Plant

