

Client:

DiamonEx Limited

Project:

Martin's Drift Project

Project Location:

Botswana

Project Value:

AUD 22M (2008)

Services:

EPCM

1. Project Overview

DiamonEx is a Brisbane, Australia-based specialist diamond company currently developing a diamond mine based on an established 3.7 million carat resource at Lerala within Botswana.

DiamonEx was awarded the exploration concessions over the Martin's Drift project area by the Botswana Government in August 2002. The Lerala kimberlites which lie within the Martin's Drift project area were originally discovered by De Beers in 1991 and 1992.

The deposit consists of five diamondiferous kimberlite pipes ranging up to 2.34 hectares in surface area – all exposed at surface. Estimated Indicated Diamond Resource of 13.5 Mt at an average grade of 27.41 carats per hundred tonnes, to a depth of 110 m below surface, based on a +1 mm bottom cut-off screen.

2. Scope of Work

The Martin's Drift Project consists of:

- Project located approximately 350 km NE of Gaborone
- Life of mine operations of approximately 15 years
- Open pit mining at 200 t/h or 1.2 Mt/a producing 327 000 c/a
- Potential for underground operations
- Process plant includes unique mix of scrubbing and up-to-date comminution technology including HPGRs
- Concentration process has been tailored to match the diamond size distribution
- In house modelling techniques and novel treatment processes have resulted in low CAPEX and OPEX costs without compromising optimum diamond recovery
- Final recovery includes X-ray and grease techniques as well as the inclusion of an acidisation plant to ensure maximum revenue per carat

The Martin's Drift process plant includes the following:

- Primary jaw crusher with capacity 200 t/h
- Ore handling
- Secondary crushing
- High pressure grinding rolls (HPGR)
- Scrubbing
- Pan plant pre-concentration
- DMS
- X-ray and grease recovery circuits
- Sorthouse
- Degritting operations
- Thickening
- Water recovery circuit
- Utilities
- Infrastructure

3. Project Schedule

- Definitive feasibility study Nov 2005
- Detail design Aug 2006
- Commenced site construction Mar 2007
- Mining commenced Feb 2008
- Commissioning commenced Jun 2008
- In production Aug 2008

