

Koidu Kimberlite Project



Client

Octea Diamonds / Koidu Holdings

Project Name / Description:

Kimberlite treatment plant - Diamonds

Location:

Koidu Town, Sierra Leone

Capacity:

180TPH

Execution Date:

January 2011 - March 2012

Notable Project Features:

- LSTK project – erected and commissioned in 10 months
- 4 x crushers (Primary Jaw-, Secondary Cone- and Tertiary cone crushing)
- 18 x Conventional Conveyors and Pipe Conveying
- 2 x 130t/h fines DMS with 150t/h Coarse DMS
- 7t/h Recovery with X-ray Technology
- Water Circuit – Process water dam, supply of Thickener, Degrit and Floc plant and TSF with Tailings Dump design.
- High level Security system
- 10MW power generating facility with 5 dedicated MCC's
- Civil Design and Installations



Consulmet Minerals is an output driven Project Engineering Company capable of project execution from Process Design through to Construction, Commissioning and Hand-over. Consulmet Minerals specialises in the Minerals field and is supported by a comprehensive Spares and Procurement department with a Logistical set-up over land, sea and air. Consulmet Minerals is able to execute Order of Magnitude Studies as well as Pre-feasibility and Feasibility Studies. LSTK and Man Hour Services are offered at highly competitive rates due to flat structuring and hands-on management. In addition to conventional process plants, Consulmet Minerals offers factory tested skid mounted plants for remote installation. All designs are produced in the latest 3D Inventor software.

Consulmet Minerals has added various new departments over the years since 2003. It has become a one stop shop and is capable of the Design, Fabrication and Completion of all Infrastructure Requirements to support an operational mine. Collectively Consulmet has many years of experience within the Process Engineering fraternity, including the following:

Processing Industries

- Mineral Processing
- Dense Medium Processing
 - o Copper
 - o Diamonds
 - o Manganese
 - o Coal
- Coal Processing
- Customised Processing Solutions
- Mineral Ore Test Work
- Processing Plant Audits

Expert Processes

- Agitation
- Flocculant Plants
- DMS on Diamonds – 2 to 200 t/h
- DMS on Coal – up to 450 t/h
- Crushing – All Stages
- Scrubbing – Up to 7m x 3m
- Materials Handling - Conveyors
- Thickening & Elution
- Degrit Management
- Recovery Systems
- Offices and Workshops

Type of Work/Projects

- Test Work Facilitation
- Preliminary Economic Assessments
- Feasibility Studies
- Process Engineering
- Detailed Engineering Design
- LSTK Project Execution
- EPCM Project Execution
- In-house Manufacturing
- Trial Erection of Modules
- Structural Analysis
- Modular Designs
- African Projects
- Spares Planning and Supply
- Electrical Designs and Implementation
- Civil Designs and Implementation

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● Consulmet Offices ● Countries in which projects have been completed by Consulmet

