Zambeze Project

Feasibility Study Report (for capacity of 11MTPA and 22MTPA) prepared by a Consultant containing following details, is available with ICVL:-

1- Mining & Geology Data for Zambeze Project

I- Geology Data

- Property Location and Description
- Exploration & Exploitation Concept
- Geology and Coal Potential
- Geological Model in Minex and Coal Resource Estimate
- Raw data of BHs in CSV (geological logs, Geophysical logs, laboratory Analysis)
- Current Resources
- Hydrogeology & Hydrology reports
- Geotechnical report

II- Mining, Mine Planning and Coal Reserves Data

- Coal Resource and Reserve Statements
- Geotechnical Design Considerations
- Block Ranking of Coal Seams
- Design and Scheduling
- Xpac Production Schedules
- Mining Overview and Major Earthmoving Equipment
- Total Equipment Requirements/ Spares and Consumables
- Drilling and Blasting
- Gap Analysis and Optimization of the Mine Plan
- Baseline Assessment
- Mining HR and Operational Readiness
- Zambeze Coal Project Mining Workforce Strategy
- Project Phase Work Force
- Operational Phase Workforce
- Mining Capital Costs Estimate & Estimating Methodology
- Opencast Mining, Ramp & Box Cut data
- Bulk Earthworks, Civil Works, Infrastructure & General Services

- HDV and LDV Break Test Ramps and the Explosives Magazine Protection Berm
- Stormwater Management
- Sewer Treatment Plants (STPs)
- Potable Water Treatment Plants (WTPs)
- Mine Support and Design Packages
- Mechanical Equipment
- Diesel Consumption & Oil Separators
- Design Development Allowance (DDA)
- Closure Cost Estimate
- Mining Operating Costs
- Mining Infrastructure Operating Costs
- Mining General and Administrative Operating Costs
- Sustaining Capital Costs (Mining and closure costs)
- Economic Analysis & Business
- Mining Viability Assessment
- Project IRRs and Funding Considerations
- Debt Ratios
- Cash Flow Considerations

2- Coal Handling and Processing Plant (CHPP) Data for Zambeze Project

- CHPP report
- Process Control Diagrams
- Process Flow Diagrams
- Process Simulation Report
- CHPP Average Mass balance
- Dynamic Simulation report
- Process Development
- Product Yields
- Infrastructure and Engineering:
 - Civil
 - Ground Conditions
 - Roads
 - ✤ Terraces
 - ✤ Wet Services Reticulation
 - Dams
 - ✤ Fencing

- Buildings and Structure
- Tailings Ponds
- ✤ Mechanical Design
- Site Layout
- Mechanical Layouts and Design
- Dynamic Simulation of Material Handling System
- Electrical Design
- Emergency Power
- Construction Power
- ✤ Lighting
- Electrical Infrastructure
- Control System Design
- ✤ MCC PLC Interface
- Medium Voltage (MV) Interface
- Instrumentation Design
- Information Management Design
- ✤ Security
- ✤ Telecommunication and Office Infrastructure
- ✤ Logistics
- Construction Logistics
- ✤ Logistical Infrastructure Affected by the Project
- CHPP HR & Work Strategy
- CHPP Workforce Strategy (Project phase & Operational phase workforce)
- CHPP Capital Costs Estimate & Methodology
- CHPP Bulk Earthworks, Civil Works, Infrastructure & General Services
- CHPP Structural Steel and Plate Work
- Belt Conveyors data
- Mechanical Equipment
- Piping and Valves
- Electrical, Control and Instrumentation
- Transport
- EPCM
- Spares and Consumables
- Design Development Allowance (DDA)
- Closure Cost Estimate
- CHPP Operating Cost Inputs
- Coal Handling and Processing Plant Operating Costs
- Infrastructure Operating Costs
- Cash Flow Considerations

3- Transportation of Coal Products (CC+TC) by Rail from Moatize Siding to Beira Port (600 km) for Zambeze Project

- Existing Government Railway Line of about 600 km from Moatize Siding to Beira Port
- Coal Transportation Workforce Strategy & Data
- Rail Load-Out System
- Capital Costs Estimate & Estimating Methodology
- Rolling stocks (total Locomotives and Wagons requirements)
- EPCM
- Spares and Consumables
- Product Logistics
- Future Railway Opportunities
- Cash Flow Considerations

4- Additional Information/ data available for Zambeze Project:

- Approved Mining Plan by the Government of Mozambique
- Gap Analysis and Optimization of the Mine Plan
- EIA and Resettlement Action Plan Studies Reports
- Baseline Assessment
- Approved Resettlement Action Plan (RAP) for shifting of about 1018 families
- HR and Operational Readiness
- General and Administrative Operating Costs
- Sustaining Capital Costs (Mining, CHPP, Infrastructure and closure costs)
- Economic Analysis & Business Viability Assessment
- Project IRRs and Funding Considerations
- Project IRRs
- Project NPVs
- Debt Ratios
- Valid Mining Concession (4695C) for 25 Year
- Completed Study of EIA/EMP and submitted to the environmental Authority for approval