

## MANGANESE FACT SHEET

### OVERVIEW

MDM Engineering:

- is a world class engineering company with global experience, specifically in Africa;
- has +200 engineering professionals, who have the capacity to deliver a project within deadline and on budget;
- is supported by a technical team with a combined 311 years experience in designing and building process plants across a range of minerals;
- provides a cost-effective approach to design;
- produces plants that are functional, efficient and durable;
- is transparent with our 'open-book' contracting method, ensuring that any savings are shared with the client.

MDM Engineering Group Limited (MDM Engineering) is a metallurgical and process engineering company which was established in February 2006. On the 13th November 2014, MDM became part of the Amec Foster Wheeler Group.

### SCOPE OF WORK

MDM Engineering undertakes mineral resource projects of varying sizes and concentrates in the gold, uranium, base metals, ferro metals, platinum group metals, industrial minerals, and diamonds.

The company offers a range of services from project evaluation, process design, feasibility studies through to full EPCM or EPC, incorporating the construction of plants and project management.

### MANGANESE TRACK RECORD

The team at MDM Engineering has significant manganese experience:

- completion of some 6 studies, of which 3 were bankable;
- currently constructing Kalagadi Manganese plant in South Africa; and
- overall engineering experience in 24 countries worldwide, and have completed 66 projects globally.

NAME	CAPACITY	PROCESS	STATUS	LOCATION	CLIENT
<b>Manganese Projects</b>					
Kalagadi Umtu	3 Mtpa	Crushing, Screening Sintering	Current EPCM	South Africa	Kalahari Resources
<b>Manganese Studies</b>					
Kongoni	2.2 Mtpa	Crushing, Sintering	BFS completed 2013	South Africa	Amari Resources
Kalagadi Umtu	3 Mtpa	Crushing, Screening, Sintering	BFS completed 2009	South Africa	Kalahari Resources
Kudumane	1 Mtpa	Crushing, Sintering	Desktop study completed 2010	South Africa	Asia Minerals
Kalagadi Coega	360 Ktpa	Smelting	BFS completed 2008	South Africa	Kalahari Resources

**In execution Phase for Kalagadi Umtu Manganese Project; and have completed 6 studies, of which 3 were bankable.**



**Two thirds of the earth's surface is water...  
The rest we can process.**

**MDM**  
ENGINEERING



**Listen with care  
Design with purpose  
Deliver beyond expectation**

part of the Amec Foster Wheeler Group

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