

Company News

Fluor successfully completes project at Letlhakane Mine in Botswana

Fluor has successfully completed the construction of Debswana's Letlhakane Mine Tailings Resource Treatment Plant (LMTRTP), situated near Francistown in central Botswana. The modular plant, which

was designed by Fluor, is currently being commissioned.

The new 3.6 million tonne per annum modular plant will recover existing coarse diamond tailings and extend the life-of-mine for the Letlhakane Mine by approximately 25 years.

"Fluor designed a modular diamond tailings treatment plant, from the initial concept in the prefeasibility

study, through to detailed engineering in execution for Debswana," said Russell Ayres, Fluor general manager, Mining & Metals in Asia Pacific, Europe and Africa. "Over and above the full design,

Fluor was also responsible for the procurement effort (as part of the Engineering Procurement contract),

as well as implementing early works on-site, and later rendering construction and engineering support to the Client construction team."

The design of this stand-alone plant was centred on a modular approach. The main process areas, such as the dense-media separation (DMS), scrubbing and crushing buildings, were designed to be fully constructed from fit-for-purpose modules, thereby accelerating on site construction.

Fluor applied its modularization capabilities to design 60 process plant modules, as well as 106 conveyor

and services gantry modules. The project also included the provision of 17 fully-fitted modularised ehouses

from South Africa. The modularisation concept was applied in such a manner that the design of the modules was tailored specifically around the project size, location and Client requirements.

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Road transportable modules were created to suit local infrastructure, conditions and transport restrictions allowing for the modules to be constructed locally at a purpose-built modular yard off site. The modules were then transported by road from this "first of a kind" fabrication yard in Botswana, to the Letlhakane Mine site.

"With this project, Fluor has demonstrated that it is possible to align the benefits of modular construction to have a positive impact on the local community through improved HSE, higher productivity and no interface with live plant. Modular fabrication does not mean that the assembly will

necessarily be done remotely; modules can be designed and executed in-country, as we did with this project", added Ayres.

"In terms of the module sizes and quantities, the LMTRTP is one of the first projects in Botswana to be

modularised to such a scale," concluded Ayres.

According to Debswana senior construction manager, Douglas Hambidge, in an owner construction managed model, it is imperative that the model is supported by resources who were involved in the design of the project. "This concept was applied to the LMTRTP and the results have proved that the model with combined resources works effectively."

Fluor is a global engineering, procurement, fabrication, construction and maintenance company and has

been present in Sub-Saharan Africa for more than 55 years. Fluor's history in Botswana dates back to the

early 2000s with the provision of technical services at the Orapa Diamond Mine, followed later by the successful completion of the Jwaneng Cut 8 and Morupule Coal Mine expansion projects.

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About Fluor Corporation

Fluor Corporation (NYSE: FLR) is a global engineering, procurement, fabrication, construction and maintenance company that designs, builds and maintains capital-efficient facilities for its clients on six continents. For more than a century, Fluor has served its clients by delivering innovative and integrated solutions across the globe. With headquarters in Irving, Texas, Fluor ranks 149 on the Fortune 500 list with revenue of \$19 billion in 2016 and has more than 60,000 employees worldwide. For more information, please visit www.fluor.com or follow Fluor on social media at [Twitter](#), [LinkedIn](#) and [YouTube](#).