Providing Global Mineral Processing Solutions





THUNDERBIRD MINERAL SANDS PROJECT

SCOPE OF WORK

Kimberley Mineral Sands (KMS), a joint venture between Sheffield Resources Limited (SFX) and Yansteel (YGH Australia), is developing the Thunderbird Mineral Sands Project located on the Dampier Peninsula about 65 km west of Derby, and 25 km north of the sealed Great Northern Highway, approximately half way between Derby and Broome, Western Australia. The Project consists of a large-scale zircon and ilmenite open cut mine and mineral concentration and separation plant. It is a long life mining project with a two-phase implementation commencing at a wet concentrator plant feed rate of 8 Mtpa with a predicted mine life of 40 years. The Project has a reserve of 680 million tonnes grading at 11% heavy mineral.

GR Engineering has commenced early works for the design and construction of the mineral concentration and separation plant. The commencement of Contract remains subject to GR Engineering Services being issued with a full notice to proceed, which is dependent on KMS satisfying remaining financing conditions ahead of a final investment decision being made to pursue the development of the Project. The Project delivery method for the plant will be a performance based, fixed price, turnkey EPC Contract with committed delivery dates for Contract deliverables. The GR Engineering scope of work for the Project will include the design, engineering, procurement, construction and commissioning of the wet concentrator plant, concentrate upgrade plant and associated services and facilities. The mineral separation plant will use a wet gravity separation process to produce a heavy mineral concentrate, followed by a magnetic separation process to separate the magnetic ilmenite rich, non-magnetic zircon rich and a paramagnetic concentrates. The concentrates will be loaded directly into trucks for bulk shipment.

Site work is scheduled to commence shortly after the wet season in Q1 2022 and continue through to Q4 2023 when commissioning of the plant will be completed.

Commodity: Mineral Sands Region: Australia Location: Dampier Peninsula, Western Australia Project Type: Greenfields, lump sum contract, design and construct Client: Kimberley Mineral Sands Award Date: January 2022 Completion Date: December 2023 Project Manager: Aaron Dorai-Raj Process Manager: Mark Roberts

