



Tetra Tech Appointed for Concept Design of Demonstration Plant for the K.Hill Manganese Project

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TORONTO, Jan. 21, 2021 (GLOBE NEWSWIRE) -- Giyani Metals Corp. (TSXV:EMM, GR:A2DUU8) ("**Giyani**" or the "**Company**") is pleased to announce that it has appointed Tetra Tech for the concept design of a demonstration plant (the "Demo Plant") that replicates to pilot scale the proposed hydrometallurgical process for its K.Hill Manganese Project (the "Project") in Southern Botswana.

The purpose of the Demo Plant is two-fold. Firstly, the Demo Plant is expected to demonstrate that the K.Hill orebody is capable of achieving, at scale, the required commercial product specifications based on the proposed process flowsheet by providing sample product to potential end buyers for their supply chain testing and qualification process. Secondly, it will de-risk the Project through verification and optimisation of the process flowsheet and engineering design in support of the ongoing feasibility study ("FS") and subsequent engineering work.

Two products will be produced from the Demo Plant; high-purity manganese sulphate monohydrate (HPMSM) and high-purity electrolytic manganese metal (HPEMM). These products will be produced to the specifications provided to Giyani by various precursor, cathode, and battery manufacturers to electric vehicle original equipment manufacturers (OEMs) that Giyani has been in discussions with to date (collectively, the "Potential End Buyers"). The products will be selenium and chromium-free and will contain very low levels of deleterious impurities.

The Demo Plant will replicate the simple hydrometallurgical process proposed in the Project FS, for which Tetra Tech and Royal IHC have been acting as engineering consultants. Completion of their work is expected later in 2021.

Following guidance from the Potential End Buyers and Tetra Tech, the size of the Demo Plant will be built to produce at least 250 kg per day of contained manganese metal product. The size of the Demo Plant enables the Company to test the ore variability, as well as the conditions that the hydrometallurgical process will experience in a commercial scale plant. The Demo Plant will be operated in a series of campaigns to allow for trials and steady-state operation in various combinations of ore specifications and system configurations.

The concept design is expected to be completed later this quarter and will include the preparation of a cost estimate, as well as a project execution plan for the delivery, commissioning and operation of the Demo Plant in Botswana.

Robin Birchall, CEO of the Company commented:

"The operation of a demonstration plant will assist the offtake agreement negotiations with Potential End Buyers. With a \$7.5m financing recently completed, the expected cost for the purchase and operation of the demonstration plant is fully funded which will allow us to progress to detailed engineering and fabrication quickly once the concept study has been completed."

About Giyani

Giyani Metals Corp. is a mineral resource company focused on the development of its K.Hill, Lobatse & Otse manganese oxide projects in the Kanye Basin, Botswana, Africa. The Company's flagship K.Hill Manganese Project is a near-surface deposit currently going through a feasibility study to produce high-purity electrolytic manganese metal and manganese sulphate, both key cathode ingredients for batteries in the expanding electric vehicle (EV) market.

Additional information and corporate documents may be found on www.sedar.com and on Giyani Metals Corp. Website: <https://giyanimetals.com/>.

About TetraTech

Tetra Tech is a leading provider of high-end consulting and engineering services for projects worldwide. With 20,000 associates working together, Tetra Tech provides clear solutions to complex problems in water, environment, infrastructure, resource management, energy, and international development. For more information about Tetra Tech, please visit tetratech.com

Giyani appointed TetraTech, alongside SRK Consulting, in 2019 to produce the Preliminary Economic Assessment for the K.Hill Manganese Project. Both consultants have since been retained by the Company to produce K.Hill's Feasibility Study, which is expected to be completed later in 2021.

On behalf of the Board of Directors of Giyani Metals Corp.

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Forward Looking Information

This press release contains "forward-looking information" within the meaning of applicable Canadian securities legislation. All statements in this news release, other than statements of historical fact, that address events or developments that Giyani expects to occur, are "forward-looking statements". Forward-looking statements are statements that are not historical facts and are generally, but not always, identified by the words "expects", "does not expect", "plans", "anticipates", "does not anticipate", "believes", "intends", "estimates", "projects", "potential", "scheduled", "forecast", "budget" and similar expressions, or that events or conditions "will", "would", "may", "could", "should" or "might" occur. Specific forward-looking statements and forward-looking information herein includes completion of receipt of TSXV approval for the private placement and completion of the private placement.

All such forward-looking statements are based on the opinions and estimates of the relevant management as of the date such statements are made and are subject to certain assumptions, important risk factors and uncertainties, many of which are beyond Giyani's ability to control or predict. Forward-looking statements are necessarily based on estimates and assumptions that are inherently subject to known and unknown risks, uncertainties and other factors that may cause actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking statements. In the case of Giyani, these facts include their anticipated operations in future periods, planned exploration and development of its properties, and plans related to its business and other matters that may occur in the future. This information relates to analyses and other information that is based on expectations of future performance and planned work programs.

Forward-looking information is subject to a variety of known and unknown risks, uncertainties and other factors which could cause actual events or results to differ from those expressed or implied by the forward-looking information, including, without limitation: inherent exploration hazards and risks; risks related to exploration and development of natural resource properties; uncertainty in Giyani's ability to obtain funding; commodity price fluctuations; recent market events and conditions; risks related to the uncertainty of mineral resource calculations and the inclusion of inferred mineral resources in economic estimation; risks related to governmental regulations; risks related to obtaining necessary licenses and permits; risks related to their business being subject to environmental laws and regulations; risks related to their mineral properties being subject to prior unregistered agreements, transfers, or claims and other defects in title; risks relating to competition from larger companies with greater financial and technical resources; risks relating to the inability to meet financial obligations under agreements to which they are a party; ability to recruit and retain qualified personnel; and risks related to their directors and officers becoming associated with other natural resource companies which may give rise to conflicts of interests. This list is not exhaustive of the factors that may affect Giyani's forward-looking information. Should one or more of these risks and uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those described in the forward-looking information or statements.

Giyani's forward-looking information is based on the reasonable beliefs, expectations and opinions of their respective management on the date the statements are made, and Giyani does not assume any obligation to update forward looking information if circumstances or management's beliefs, expectations or opinions change, except as required by law. For the reasons set forth above, investors should not place undue reliance on forward-looking information. For a complete discussion with respect to Giyani and risks associated with forward-looking information and forward-looking statements, please refer to Giyani's financial statements and related MD&A, all of which are filed on SEDAR at www.sedar.com.