



Empowering you to achieve

"Education is the most powerful weapon which you can use to change the world."

- Nelson Mandela -

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ABOUT US

We have identified an opportunity to produce commercial grade chromite concentrate by processing the chromite rich Mining Dumps and Run off mine combined assortment in Sebilong Village Waterberg Area and Maologane area of the Pilanesberg Area. The opportunity entail working in collaboration with the local community leaders, community members and land stewards, to build and operate a chrome recovery plant that is essential in the area to take advantage of the chrome recovery in the Pilanesberg, Northern Region, specifically in the land identified in the Sebilong village. The Site used to have an old chrome plant. Currently, there is no operating plant in the area that operate on a toll treatment or that the community has access to wash their historical dumps hence this necessitates one in the areas, proximately. This initiative leads to consolidated minerals processing operation accessible to the junior miners and the local communities, namely Africa Lefica Mining. The areas mentioned are dominated by junior mines from the local communities, who either sell or treat the chromite rich dumps to the privately owned chrome recovery plant owners, without much benefit to the back to the communities of the miners and the miners, due high transportation cost to the delivery the material to the treatment plant outside Rustenburg town, Moonooi Area, about 200 km away and high cost of toll treatment fees involved.

Additionally, the Mined Stockpile Dumps are piled in sufficient amounts of medium to high grade of LG6 orebody and traces of UG2 orebody to justify the recovery of commercial grade chromite and the access to run off mine (ROM) in the area, belonging to the small scale miner and community CPA's that mine in the areas. This therefore necessitates building a facility to process this chromite rich material. The Chrome Spiral Wash Plant (CSP) will be required to be able to process the material from the Stockpiles and mining in the area. The proposed stand-alone chromite recovery facility located outside identified land in a perimeter fence on the North Eastern side of the Village of Sebilong, in the farm portion named Zwartkop 369 KQ. Due to the nature of the envisaged operation the feed material requires to be sourced or hauled from different locations in various areas, within the identified radius of 100 km. This results in the use of Front End Loaders (FEL) and TLB to haul and load the material onto trucks and to plant feed.

The development of the Chrome Recovery Plant facility comprise a screening system, Gravity Plant consisting of spirals and cyclones, concrete pads for product recovery and tailing water facility. The material will be loaded into a hopping system via front end loaders (FEL) and conveyed on the conveyor that transfers to the screening facility. The correct size material has been directed to be processed on the spiral plant and to produce chrome product and the spiral will also yield the unwanted gangue material that has been directed to the tailing' facility for dewatering and storage. The final product of the treatment plant has been stockpiled and the collected by the owners from the storage facility periodically.



Figure 1, Schematic Presentation indicating Location of Dumps and chromite ore bodies in the Westlimb of the Bushveld Ignatius Complex, Pilanesberg, and Rustenburg

The land bordered by the Sebilong Village and other villages are located in the western bushveld complex of the Rustenburg Layer Suite, where collectively the communities' land in the area that spans over 10 000 Hectares in the Region of Waterberg district and Pilanesberg, Moses Kotane on the Boundaries of North West and Limpopo Provinces. The land is accessible by the Road R565 and R510 from Rustenburg about 40 km from Sun City Resort.

OUR MISSION

Our goals are to develop a mining and metallurgical business that is sustainable through chromite processing, chromite mining and chromite exploration from discovery phases through to operating entities, to benefit the communities that we operate with and our shareholders. In order to achieve our medium to long term goals, our new small operation, Africa Lefica Mining, will need to partner with potential investors to take each project up the value curve. Our consolidated operation has set a short term goal by trying to secure steady cash Inflow and positive balance sheet. Our consolidated operation have identified various opportunities as short term goals to reach their medium term goals, with the most obvious being the successful built, commissioning and operation of the chrome recovery plant to treat the chrome dumps and run off mine in the area through either toll treatment or preferably, partnership contracts as per Sebilong CPA and Africa Lefica has entered.

OUR APPROACH IN DEVELOPING SUCCESSFUL PROJECTS

The business mandate regarding the entire project including the construction of a chrome recovery plant and mining operation is to take each phase of the project up the value curve. The value curve diagram depicts the sequential decision phases through the life cycle of a typical mining project with what we see as the different points of value. At each stage the business case of the project would be evaluated and if it proves to be positive with more potential and value to be added, the project would be taken further to the next phase. For example, if our consolidated operations complete a desktop study on either one of their prospective projects and the desktop study shows potential; our new operations will initiate the next stage of the project in the form of a feasibility study. Once the feasibility study shows potential the next stage will be initiated and so forth.



Should the desktop study show no potential for a further investigation could hold for later development; later development could trigger if market conditions are not currently prevailing due to the commodity price, a demand or various other reasons. Once any of those parameters change it could change the status of the project to favorable and our consolidated operations could initiate further investigations or studies up the value curve.









CONCENTRATE HANDLING

The chrome concentrates grade, from the washing plant is individually pumped to de - watering cyclone located at the end of overhead stacker from where the underflow drops directly onto the stockpiles pad. The overflow from each of the dewatering stacker cyclone gravity feeds to a sump from where it is pumped to the plant tailings facility. Sufficient concrete slab stockpiling facilities is provided for the concentrate.

TAILINGS DISPOSAL AND RECYCLING

The Chrome Recovery Plant tailings is fed to the respective tailings dam and dewatered efficiently to recover the water back to the process plant and the dried material from the dam is stockpiled within the plant for further processing before rehabilitation at later stage. During the rehabilitation of the material it is thought that the material from the tailings stockpile will be either as first price, be used in the manufacturing of bricks, which the project is planned at a later stage in details.

SPILLAGE HANDLING & ENVIRONMENTAL CONTROL

The general operational spillage emanating from within the Production facility will be contained within process concrete floor area and bund wall. Floors will be gravitated towards a collection point, which will be then properly disposed into dedicated process facilities via spillage pumps.

Spillages for oil material will be also controlled under bunded area and with oil spillage measures; this will be more dealt with in the Environmental Management Plan (EMP).





Routine quality checks for the relevant elements of the products will be taken manually prior to each of the final client dispatch. Quantity of actual production will be determined by a daily survey of physical stock on the ground and records of readings.



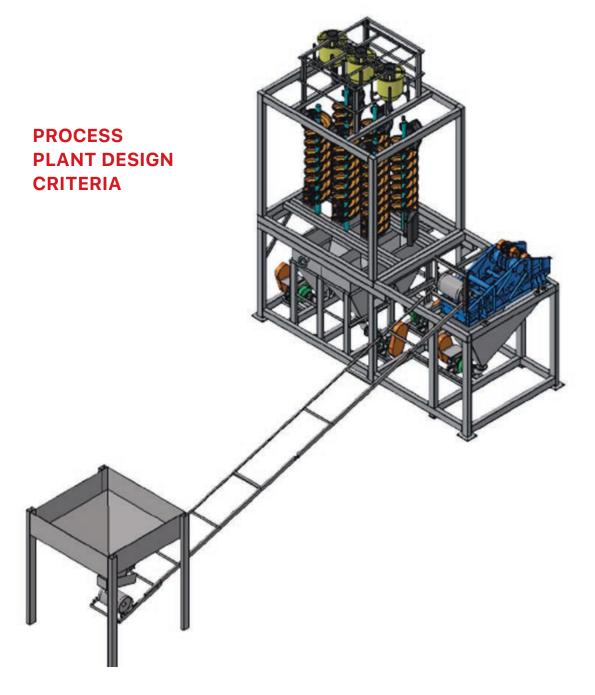
MAINTENANCE

A small separate and secure maintenance workshop shall be provided for basic servicing & repair of pumps, motors and plate work. An emergency exit route is to be provided from the spiral building for maintenance & operational staff should it be required.



PROJECT RISK

The project requires new infrastructure in terms of renewable energy facilities, maintenance facilities and weighbridge facilities in an underdeveloped area, which might be slightly costly. The implementation presents major risks, in terms of managing the project properly. All the project related engineering, construction and commissioning activities will have to be planned in such a way that plant is completed in time and under budget.



The design of the project is based primarily upon design criteria developed from the vendors' information and industrial benchmarking. The proposed plant drawing (s) is included as required. Where no specific data exists, information has been drawn from reasonable assumptions have been made on in-house experience. The process design criteria, together with the process flow sheet provide the basis for the process plant specifications. It should also be noted that statements of production figures and factors quoted in the design criteria relate to figures used for predictions verified by main equipment suppliers. The plant operates under a working schedule which is shift working schedule for plant running 24 hours based on the 3 rotational shifts of 8 hours each.

OPERATIONAL MODEL

The Mining Dumps and the mined ROM on site have a significant amount of chrome which can economically be recovered. The recovery of the chrome requires a construction of the chrome recovery plant and plant feeding mobile equipment to successfully recover the chrome. The proposed Chrome Recovery Plant includes installation of the following equipment:

- Spiral washing Plant;
- · Crushing and Scrubbing Plant (future requirement);
- Civil and Structural works;
- · Concrete Pad Concentrate Stockpile storage facility, accessible for FEL loading;
- Piping and pumps and;
- · Weighbridge; and
- Refurbishment of Office Blocks and Workshops that are existing
- Wet High Intensity Magnetic Separator

For a profitable investment and full benefit in the construction of the chrome recovery plant is based on primary service criteria to undertake treatment of Sebilong community resources and secondarily to treat material from various chrome junior miners/communities wishing to wash the chrome but has no facility, within proximity; this takes advantage of the abundance of the chromite ore body in the surrounding areas and take the plant up the value curve. This ensures that the communities benefits fully in the economic growth and chrome mining at low cost of processing. The treatment involves long term partnership and tolling agreements, preference given to the former and occasionally accommodate non-contractual clients based on large volumes. This ensures the business sustainability. The plant have been constructed with surplus capacity where the surplus capacity be used to accommodate non-contractual junior operators/miners processing requirements. The operation philosophy ensures the following:

- Constant plant operation and full plant utilisation;
- · Business sustainability; and
- Consolidated service to communities and junior miners.

The model ensures our consolidated operation reduces the operational expenditure to its lowest incurred by communities and junior miners in the areas, creates employment, and maximize capital and investment returns. Hence, allowing the community, junior miners and operators to exploit economically, the minuscule chromite deposits, within they are respective communities. The treatment of material from communities add additionally to allow flexibility to enter us in to an agreement to purchase the processed product or toll treatment fee agreement or a combination of both the agreements. The service has been charged at a market related fee from the client or junior operator based on the expertly, cost of handling, crushing, and washing and storage facilities. Currently, there are no spiral facilities or similar facilities in the environs to take advantages of the opportunity using a similar model.

Wet High Intensity Magnetic Separator



WHIMS Production Separators

Overview

The Reading WHIMS set the industry benchmark for wet magnetic separation of fine minerals. They afford the most efficient separation of minerals in slurry form, when drying of the material is undesirable or uneconomical.

Features

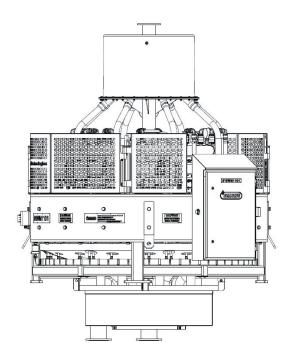
- Smaller, lighter and more compact than any other WHIMS of comparable capacity
- Ideal for floating concentration plants, lighter machine means less buoyancy required
- 16 pole units are transportable fully assembled to any location – excluding distributor and product collection launders
- Extensive use of 316 stainless steel to minimise maintenance costs
- Extensive use of polyurethane lining and componentry to reduce wear
- Latest technology control panel incorporating DC rectifier and motor starters etc
- Fully variable electro-magnetic field intensity (0–1.4 Tesla) giving the client the ability to adjust intensity for optimum separation.
- Two segment product discharge (mags and non-mags) minimises plant pipework
- Volume of wash water to separator can be varied and controlled to optimise process performance
- Option of either water cooled or air cooled heat exchanger
- All models have comparable performance for pilot study evaluations

New and improved features

- Operator protection guards for a safer plant operation.
- New catch-box assembly to improve separation and control under machine spillage.
- Redesigned rotor drive assembly improving reliability and reducing the spare part inventory
- Redesigned electrical systems achieving improved operations interface and a reduction in energy consumption.
- New wash water distribution system incorporating operator friendly fixed position process components.
- Utilisation of latest corrosion protection systems further extending the service life of the machine

Applications

- Upgrading iron ore fines (10micron to 1mm)
- Recovery of fine iron ore from tailing streams
- Separation of ilmenite from heavy mineral sand concentrates to reduce downstream processing
- Removal of magnetic contaminants from slurried materials eg cassiterite, kaolin, silica, etc



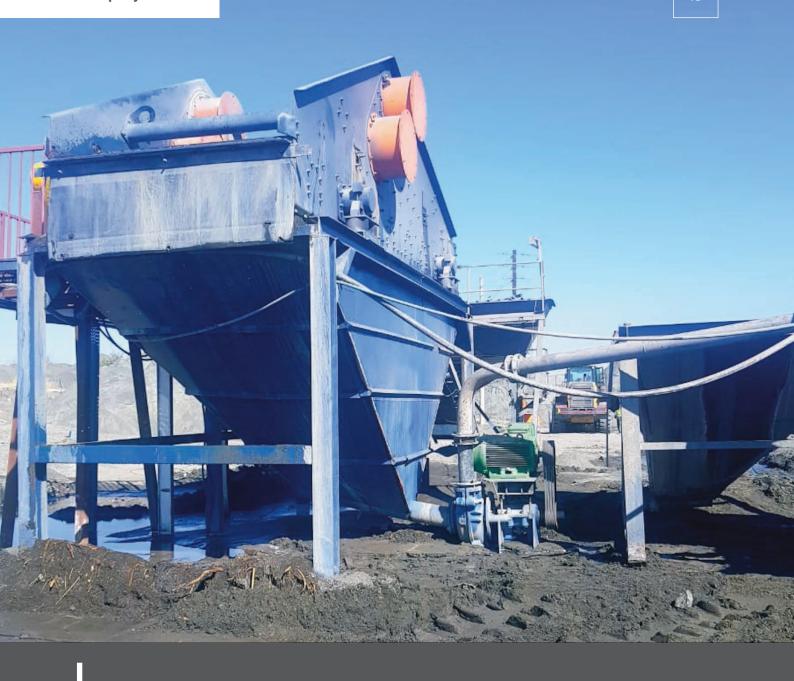


JOB OPORTUNITY

The construction of the plant has created an employment opportunity of thirty-two (32) full time employees in its first year of existence and increase with new developments and outsource other opportunities to the local communities, local business and service suppliers.

The employment job opportunities have been created in the challenged areas of South Africa. Recruitment has been

given to the local village residents. This has aligned with the "wealth promoting employment and advancement of the social and economic welfare of all South Africans whilst ensuring economic growth and socio-economic development" and helps with the issues of transformation of Historically Disadvantaged South Africans (HDSA) and communities as per Act 2002 (Act No 28 of 2002) (MPRDA).



Our Organization Africa Lefica Pty is a rising mining company with a great mining potential, numerous opportunities have been identified and Africa Lefica Mining wishes to unlock the value in each opportunity. Africa Lefica Mining has set short and medium term goals in order to

achieve their long term vision. Various opportunities around Pilanesberg have been identified as short term goals in order to fund the long term exploration and development of new projects. Our consortium is also geared to be a value adding shareholder for all existing and potential investors on their land.



59 Von Wielligh Street Office No.13 Rustenburg 0299 P0 BOX 1610 Rustenburg 0300

+27 014 000 4174 \ +27 72 447 5440

info@lefica.co.za

www.lefica.co.za