

**#Syndicate**

An Efficient  
Mine Planning &  
Production/Profit  
Enhancement Proposal

**syndicate**

**Steiger**  
Geoscience Experts



**Geoid**  
Drone and Mine  
planning Experts






**Gemco-  
kati**  
Drilling and Exploration  
Experts



**Mine  
Magma**  
Digital Mining Experts



# POTENTIAL AREAS CONSIDERED

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1. Drilling
  2. Resource optimization
  3. Orebody modeling
  4. Sample analysis
  5. Drone Survey
  6. Quality
  7. Digital Mining



# PROPOSED ROADMAP



# HIGH RESOLUTION TOPOGRAPHIC SURVEY USING DRONES & DGPS

## **Advantages:**

Quick and accurate Digital Elevation Model Preparation. Quite useful for Mine Planning / design, Establishing ground control points etc.

## **Benefits to miner:**

Getting accurate contours lines & base information for any planning project, Allows for accurate calculations of stockpiling and excavation volume, resources Estimation & Mine Planning.



# DETAILED GEOLOGICAL (LITHO - STRUCTURAL) MAPPING

## **Advantages:**

For better understanding of orebody behavior. Identification of zones of high potential & deeper extensions possibilities, Improving mining plans etc.

## **Benefits to miner:**

Knowing block Potential in advance for better planning.





# HIGH RESOLUTION GROUND MAGNETIC SURVEY

## **Advantages:**

Identifying high grade / thick magnetite zones & possible deeper extensions, generation high quality drill targets using 3D models.

## **Benefits to miner:**

Knowing more details about mineral potential in unknown areas including deeper resources if any.



# HIGH RESOLUTION GROUND GRAVITY SURVEY

## **Advantages:**

Identifying high dense mineral deposits (Iron Ore -Magnetite & Hematite, Manganese, Chromite etc) & possible deeper extensions, generation high quality drill targets using 3D models.

## **Benefits to miner:**

Knowing more details about mineral potential in unknown areas including deeper resources if any.



# HIGH SPEED DIAMOND CORE DRILLING

## **Advantages:**

Excellent core recovery using double / triple tubes and highly experienced drillers.  
Best practices in core handling and storage.

## **Benefits to miner:**

Confirmation of Potential and enhancing Reserves / Resources.



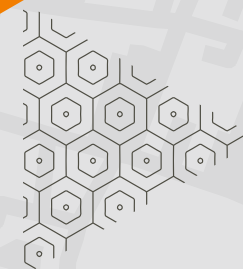
# DRILL CORE SAMPLING GEOLOGICAL CORE LOGGING & CORE ANALYSIS

## **Advantages:**

Preparation of detailed drill core logging with both geotechnical & geological litho-structural information and visual estimates. SOP's for sampling, analysis & QA QC for laboratory analysis (NABL registered Lab)

## **Benefits to miner:**

Reliable output in terms of quality & De-risking of grade control issues





# GEOLOGICAL DATABASE PREPARATION 2D CROSS SECTIONS, 3D MODELING OF OREBODY, BLOCK MODELLING AND RESERVE - RESOURCE ESTIMATIONS

## **Advantages:**

Highly experienced Geologists (Competent / Qualified Persons) prepares the models using Industry standard software such as SURPAC & DATAMINE under UNFC / CRIRSCO / JORC code of reporting.

## **Benefits to miner:**

Bankable document for mine financing.



# MINERAL BLOCK AUCTION DATA TECHNICAL & FINANCIAL MODELING

## **Advantages:**

Highly experience Geoscientists for converting Mineral Block Auction data into softcopy formats and preparing SWOT analysis on mineral potential & risks. Site visits by experts, Preparation technical presentations, Finacial models for different auction prices

## **Benefits to miner:**

Easy decision making & risks identification in advance.





# MINING PLANS PREPARATION

## **Advantages:**

Mining engineers having extensive organizational and project-based expertise in preparation of Mine plans using latest softwares and optimal techniques . Having the capability to meet the needs of mine operators and project teams, both large and small.

## **Benefits to miner:**

Life of mine , long term Planning , Short term planning operational planning and others.



# MINE DIGITALISATION/ MODERNISATION/ COMPLIANCE MONITORING SYSTEM

## **Advantages:**

Highly experienced Mining and IT professionals can transform and streamline mine operations by the way of digitalization and optimize the data processing through application of hardware and software.

## **Benefits to miner:**

Optimum utilization of resources, Enhancement in productivity, Mine Information system in finger tip, Transparency in the system.





# SAFETY MANAGEMENT PLAN

## **Advantages:**

Highly experienced Mining and IT professionals can transform and streamline safety compliances by the way of digitalization and optimize the data processing through application of hardware and software.

## **Benefits to miner:**

Compliance under various mine laws and safety guidelines.



# COMPLIANCE MONITORING SYSTEM

## **Advantages:**

Highly experienced Mining and law professionals can transform and streamline the compliance monitoring system through application of hardware and software.

## **Benefits to miner:**

To be complaint under various legal provisions applied under mining regime.





# CONTACT US



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# CLIENTS

