

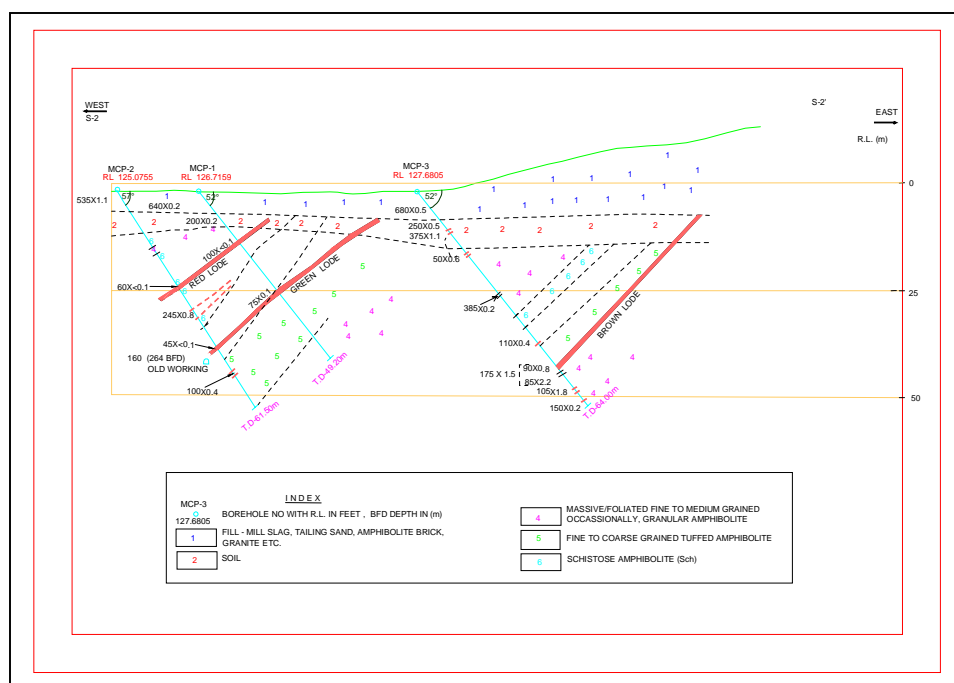
# EXPLORATION REPORT ON DETAILED EXPLORATION IN CROWN PILLAR OF KOLAR GOLD MINES

## TO ASSESS QUARRIABLE POTENTIAL

### KOLAR SCHIST BELT

#### DISTRICT- KOLAR, KARNATAKA

## EXECUTIVE SUMMARY



## MINERAL EXPLORATION CORPORATION LIMITED

### (A GOVERNMENT OF INDIA ENTERPRISE)

#### SEMINARY HILLS, NAGPUR

### FEBRUARY-1998

# **EXPLORATION REPORT ON DETAILED EXPLORATION IN CROWN PILLAR OF KOLAR GOLD MINES TO ASSESS QUARRIABLE POTENTIAL KOLAR SCHIST BELT, DISTRICT- KOLAR, KARNATAKA**

## **EXECUTIVE SUMMARY**

### **1.0 LOCATION**

The Kolar Gold Fields is located in Bangarpet Taluk of Kolar District, Karnataka and is situated 100 km east of Bangalore. The area is bounded by Latitude 12<sup>0</sup>59'N, Longitude 78<sup>0</sup>15' and 78<sup>0</sup>19'E falls in the Survey of India Toposheet No. 59 L/5.

The Kolar Gold fields is located in Bangarpet Taluk of Kolar District and is situated 100 km east of Bangalore.

### **2.0 GEOLOGY & STRUCTURE**

The Kolar greenstone belt of Archean age is a narrow north south trending zone of mafic volcanic rocks. They are massive and pillowed tholeiitic basalt, gabbroic sills, pyroxenites and minor interflow clastics.

The overall structure of the Kolar Gold Field is in the form of a synclinal trough resting on the peninsular granites and gneissic rocks.

Geology of the area is represented by Amphibolite (meta basalt), which is moderately foliated. In general coarse grained tufted (or fibrous due to actinolite) amphibolite and schistose amphibolite have localized the gold lodes. The area around the shafts has been filled with rock dump, mill slag, tailing sand etc. The strike of the lodes is almost north south and dip varies from 20° to 45° towards west.

### **3.0 MINERALISATION**

The presence of numerous ancient workings at shallow depths of 15 to 20m, it is observed that a capping of about 40m from the surface is preserved over the entire stretch of the underground mines. It is envisaged that the Crown portion, may contain significant gold mineralisation.

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#### **4.0 QUANTUM OF WORK DONE**

MECL has carried out detailed Geological Mapping & Topographical survey covering 0.80 Sq.km. area, 733.20 mtrs of drilling. 616 Nos of primary and 48 Nos of check samples for Assay of Gold (Au) were analysed.

In view of the scanty mineralisation intersected, in the boreholes drilled it has been decided to conclude the exploratory operations.

Based on the above data, an exploration report was submitted by MECL.

#### **5.0 ORE RESERVE ESTIMATION**

The work done during in the block established that the crown portion between Frockers shaft and Mc. Taggart Incline does not contain economically viable gold concentration for considering further mining.

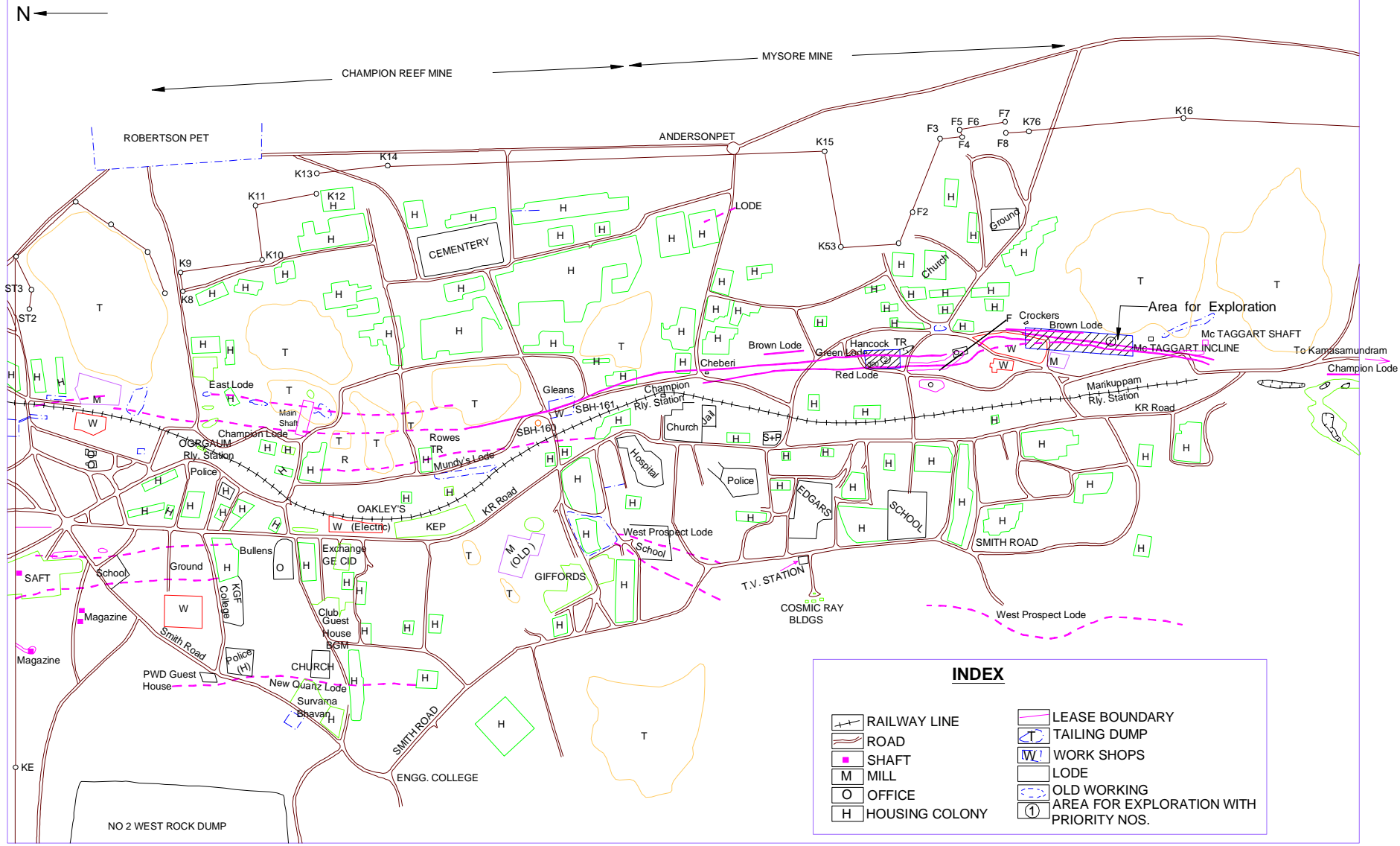
In view of the scanty mineralisation intersected in the boreholes, the exploration work was concluded.

**The Deposit has been classified as Category 'D' of UNFC 333.**

**The Total Cost of Exploration is Rs. 33. 87 Lakhs.**

# SURFACE PLAN OF PART OF KGF

Surface Plan of Part of KGF Showing Area For Exploration



# GEOLOGICAL CROSS SECTION

