

गन्वेषण रिपोर्ट
सिध्देश्वर तॉबा निक्षेप (ब्लॉक-२)
सिंघभूम कॉपर बेल्ड, बिहार

EXPLORATION REPORT
SIDHESHWAR COPPER DEPOSIT (BLOCK-2)
SINGHBHUM COPPER BELT, BIHAR

EXECUTIVE SUMMARY



खनिज गन्वेषण निगम लिमिटेड

(भारत सरकार का उद्यम)

नागपुर

नवम्बर १९८५

MINERAL EXPLORATION CORPORATION LIMITED

(A Government of India Enterprise)

NAGPUR

NOVEMBER 1985

**GEOLOGICAL REPORT ON EXPLORATION FOR COPPER ORE
IN
SIDHESHWAR COPPER DEPOSIT, BLOCK-II,
SINGHBHUM COPPER BELT,
DISTRICT- EAST SINGHBHUM, JHARKHAND**

EXECUTIVE SUMMARY

1.0 LOCATION

Sidheshwar Copper deposit, Block-II is located in Singhbhum Copper Belt, District- East Singhbhum, Jharkhand. It is adjacent of Block-I and about 6 km East of Rakha mines of HCL. The nearest railway station is Ghatshila on Howrah-Mumbai main line of SE railway. Ghatshila is about 20 km from the block. Smelter of M/s. Hindustan Copper Limited (HCL) is situated at Moubhander which is about 17 km from the block.

2.0 GEOLOGY

Rock formation belongs to Singhbhum shear zone. The area is occupied by Precambrian metamorphites of Dhanjori group, represented by metabasics and its metamorphosed variants. The rock exposures in the block are quartz chlorite schist, mica schist, sericite schist/quartzite, biotite chlorite quartz schist and Chibasa quartzite. General strike of foliation is NNE – SSW with 40° – 50° south west dip. Host rock for mineralisation is mainly quartz-chlorite-sericite schist and quartzite.

3.0 MINERALISATION

Surface manifestation of mineralisation is in the form of malachite staining , feebly developed gossan , limonitisation and native copper have been observed on surface exposure of quartzite as fracture filling. The mineralisation in the block is litho- structural control. Two numbers of lodes have been identified in the block. The major sulphide minerals are chalcopyrite, pyrite & pyrrhotite.

4.0 QUANTUM OF WORK

MECL has carried out detailed geological mapping covering 1.00-sq.km area. 8660m of drilling in 29 boreholes along with associated geological and laboratory work. Based on above data, an exploration report was submitted by MECL.

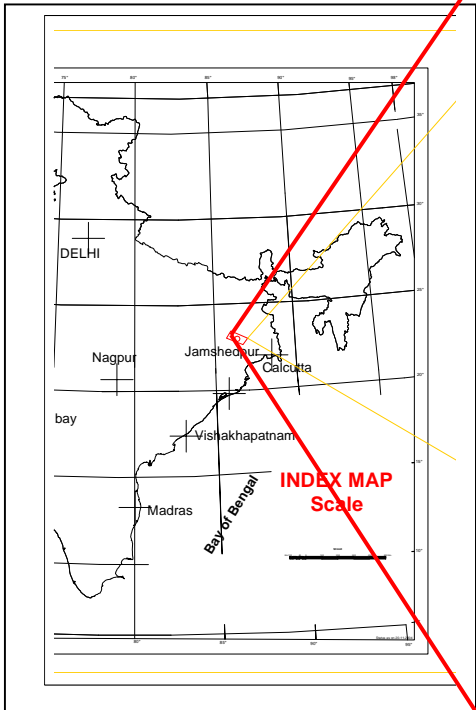
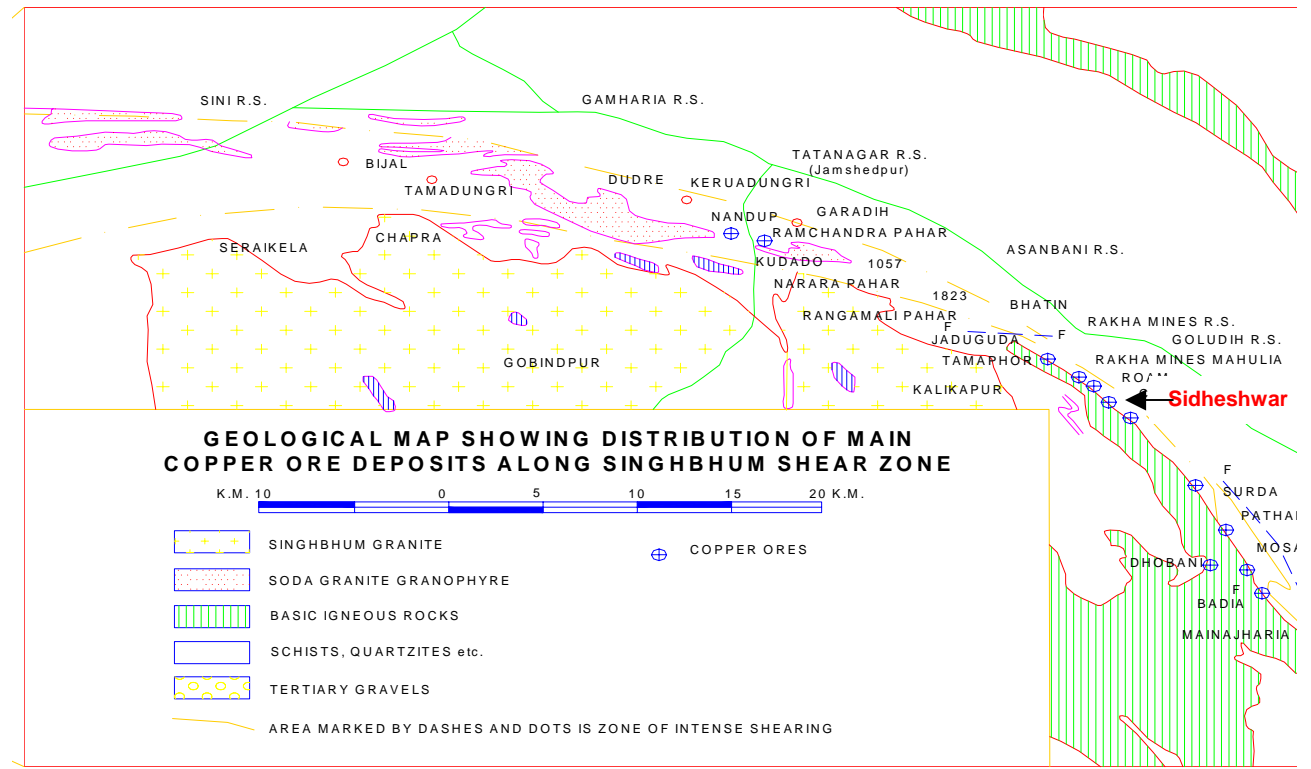
5.0 Ore reserve estimation

A total of 3.28 million tonnes of copper ore reserves with average grade of 1.65.% of Cu at 0.5% cut-off have been estimated in main lode and footwall lodes covering strike length of 1200 m. with vertical depth of 300m from surface.

The deposit has been placed under category-‘A’ of UNFC 331.

The total cost of exploration is Rs.114.76 lacs.

Location Map of Sidheshwar Copper Deposit



Geological Cross Section of Sidheshwar Copper Deposit, Block- 2

SECTION - XI

° E

-55(R.L. 120.41)











SB-52(R.L. 116.78)

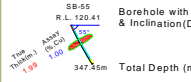
SB-43(R.L. 121.02)

or Borehole Logs

- ebbris
- hiorite-Schist
- schist
- prite-schist
- Bi.Tourm & mag.
- rite-schist
- e
- te schist
- te
- ite grain
- rite & pyrite

Index

-  Soil & debris
-  Quartz-muscovite-chk
-  Quartz - sericite - chk
-  Quartz schist with chl tourmaline & magnet
-  Quartz - biotite - chlor
-  Quartzite
-  Talc - tremolite schist
-  Epidiorite
-  Rock Dump
-  Lower limit of oxidatio



MINERAL EXPLORATION CORP	
SIDHESHWAR COPPER I	
SINGHBHUM COPPER	
CROSS SECTION ALONG BOF	
DISTRICT : VISHAKHAPATNAM	
ORIGINAL CONVERSION BY :	DATE PREPARED & OF :
LT. CENTRE MEDICAL NAGPUR	APPROVED BY : J.R.S

