

**GEOLOGICAL REPORT ON EXPLORATION FOR
COPPER ORE IN
BANWAS SOUTH BLOCK
KHETRI COPPER BELT
DISTRICT- JHUNJHUNU, RAJASTHAN**

EXECUTIVE SUMMARY



MINERAL EXPLORATION CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Dr BABA SAHEB AMBEDKAR BHAVAN,
HIGH LAND DRIVE ROAD, SEMINARY HILLS,
NAGPUR-440006

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1.0 LOCATION

Banwas South block is located in the North Khetri Copper Belt, Jhunjhunu district, Rajasthan. Block lies between the Khetri mines and Singhana block of M/s. Hindustan Copper Limited (HCL) and stretches over 1.2 km strike length and falls in Survey of India Toposheet No.44P/16. Khetri town is 1.5km away from the block. Delhi (200 km) and Jaipur (170 km) are well connected with Khetri Town. Smelter of HCL is 10 km away from Khetri town.

2.0 GEOLOGY

Rock types belong to Alwar and Ajabgarh groups of the Delhi Super group. They comprises of quartzite, and andalusite phyllite / schist , chlorite-biotite-quartz schist, amphibole quartzite and feldspathic quartzite. The general strike of formation in the block is N 52° E – S 52° W with dips around 50° – 60° due northwest. Minor folds with plunge of around 20° – 25° due N20°E are observed in the chlorite-biotite-quartz schist exposed in the peeliwali hills.

3.0 MINERALISATION

Large part of area is covered by sand and alluvium, there are hardly any surface manifestation of mineralisation in the area . The mineralisation in the block is controlled by lithology. A total of six numbers of lodes have been identified. The sulphide minerals are chalcopyrite, pyrite & pyrrhotite. The major host rock is amphibole rich rock with impure marble and amphibole quartzite.

4.0 QUANTUM OF WORK

MECL has carried out detailed geological mapping covering 0.20 sq.km area. 9283m of drilling in 17 boreholes, 2580 Nos. of primary and check samples, 24 Nos. of composite samples for fire assay of gold and silver, petrographic studies on 82 rock specimen and 23 specimen for mineragraphic studies were done. Based on above data and earlier data of GSI , an exploration report was submitted by MECL.

5.0 ORE RESERVE ESTIMATION

A total of 6.80 million tonnes of copper ore reserves with average grade of 1.33% of Cu at 0.5% cut-off have been estimated in 6 Nos of lodes covering 300 m strike length within vertical column of 300m between 300 mRL and (-)100 mRL

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

The total cost of exploration is Rs.173.02 lacs.

Regional Geological Map of Khetri Copper Belt

