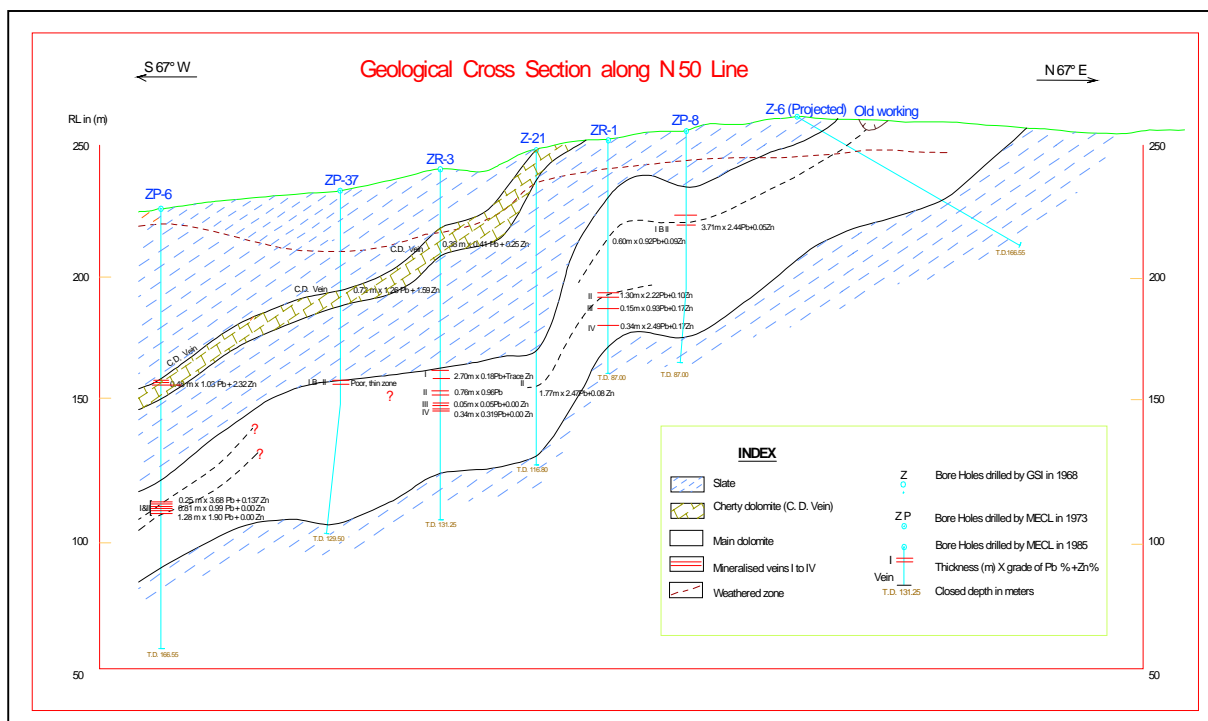


EXPLORATION REPORT ON

ZANGAMRAJUPALLE LEAD-ZINC DEPOSIT

DISTRICT - CUDDAPAH, ANDHRA PRADESH

EXECUTIVE SUMMARY



MINERAL EXPLORATION CORPORATION LIMITED
(A Government of India Enterprise)

SEMINARY HILLS, NAGPUR

FEBRUARY 1986

EXPLORATION REPORT

ZANGAMRAJUPALLE, LEAD-ZINC DEPOSIT

CUDDAPAH DISTRICT, ANDHRA PRADESH

EXECUTIVE SUMMARY

1.0 LOCATION

The Zangamrajupalle Varikunta (Z-V) belt is situated in Badvel-Proddatur Taluka of Cuddapah district, Andhra Pradesh, covering parts of toposheets No. 57 I/16, 57 J/13 and 57 J/14 and bounded by latitude 14°35' – 15 ° 10' and longitude 70 ° 5' – 78 ° 55'

2.0 GEOLOGY AND STRUCTURE

The Z-V belt lies in the south central part of the Cuddapah basin and the formations belong to the Cumbum sub-group of the Nallamalai group, in the Cuddapah super group of the Proterozoic age. The general strike veers from N-S in the north to NNW-SSE in the central and southern parts of the belt. The rocks are repeatedly folded with axis parallel to the regional fold axis i.e. N.S. The Zangamrajupalle block lies in the western limb of a major anticline and Gollapalle on the eastern limb.

3.0 MINERALISATION

There are two well defined dolomite horizons in the Zangamrajupalle block viz. the Upper “cherty” and the lower “main” dolomities, to which the lead-zinc mineralisation is confined, in the form of conformable veins. There are five such veins (I to V) in the main dolomite whereas only one in cherty one.

4.0 QUANTUM OF WORK DONE

MECL has carried out detailed Geological Mapping & topographical survey covering 0.50 Sq. Km area. 883.00 m of drilling in 8 boreholes, 115 Nos. of primary & check samples for analysis of Pb and Zn were done. Based on the above data and earlier data of GSI, an exploration report was submitted by MECL.

5.0 ORE RESERVE ESTIMATION

The exploration in the block was carried out in the central section to obtain intersections at depths of 25m., 50 m., 150 m. and 200 m. from the surface at strike intervals of 50 m. for boreholes upto 100m. depth and 100m for boreholes beyond that depth. The results of exploration did not help in enhancing the reserves position of the deposit as they were only infilling boreholes. However, the intersections of mineralized zones in these boreholes confirm the continuity of mineralisation.

The cherty dolomite vein in the upper horizon was encountered in all the boreholes.

The five mineralised veins I to V in the main dolomite were encountered in all the boreholes, only vein V is found to be less persistent.

Thus the reserves established in 1973-75 remain the same and are as follows :-

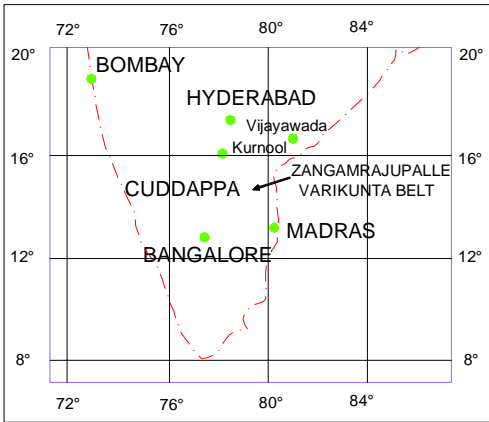
Zangamrajupalle Block	-	2.42 million tones with 4.11% Pb+Zn
Gollapalle Block	-	3.47 million tones with 3.42% Pb+Zn

The Deposit has been classified as Category 'D' of UNFC 332.

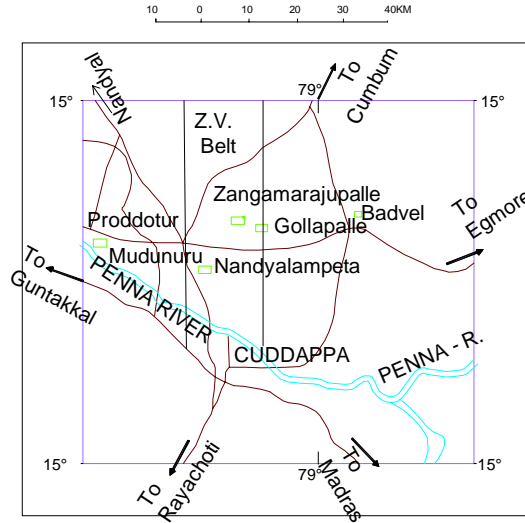
The Total Cost of Exploration is Rs. 9.27 Lakhs.

LOCATION MAP OF ZANGAMARAJUPALLE BLOCK

INDEX MAP



LOCATION MAP OF ZANGAMRAJUPALLE - VARIKUNTA BELT



LOCATIONS OF ZANGAMARAJUPALLE AND GOLLAPALLE BLOCKS

