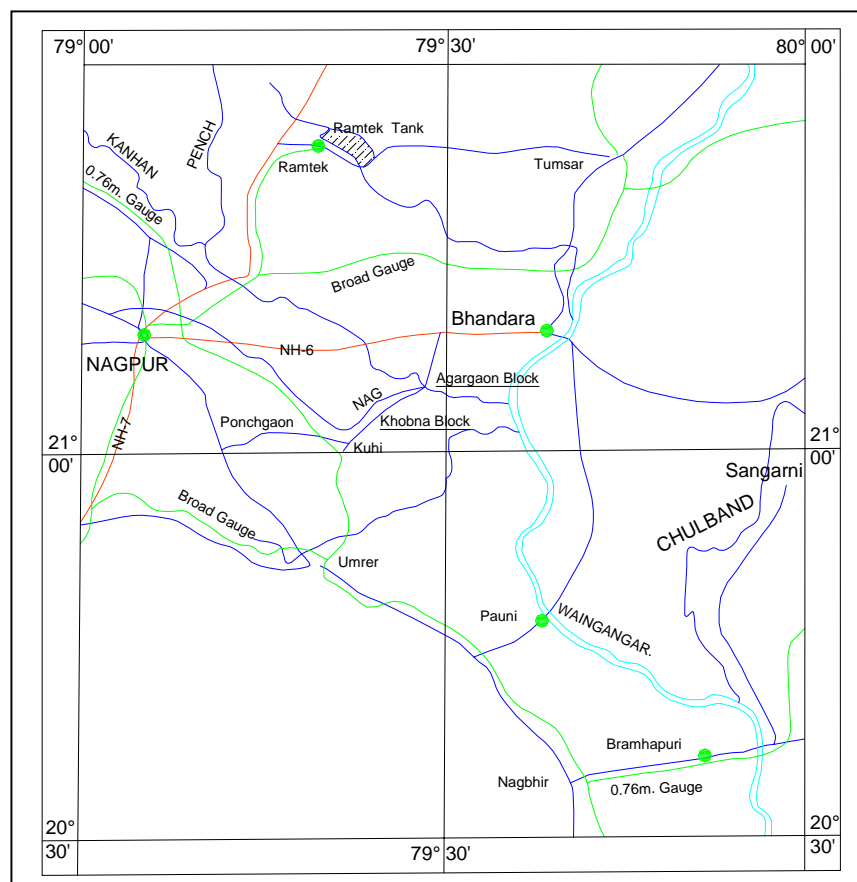


EXPLORATION REPORT
ON
AGARGAON TUNGSTEN DEPOSIT
DIST. – NAGPUR, MAHARASHTRA

EXECUTIVE SUMMARY



**FEBRUARY
1994**

MINERAL EXPLORATION CORPORATION LIMITED
(A GOVT. OF INDIA ENTERPRISE)
Nagpur Area, Nagpur-440006

GEOLOGICAL REPORT ON EXPLORATION FOR TUNGSTEN ORE AGARGAON TUNGSTEN DEPOSIT DISTRICT: NAGPUR, MAHARASHTRA.

EXECUTIVE SUMMARY

1.0 LOCATION

Agargaon Deposit is located 55 km ESE of Nagpur and 8 km NE of Khobna Tungsten deposit (Latitude 21°– 06' and Longitude 79°– 29'). The area falls in the Survey of India Toposheet No.55 O/8.

2.0 GEOLOGY AND STRUCTURE

Agargaon Tungsten deposit is located on the northwestern margin of Sakoli basin. The rocks are isoclinally folded and refolded in to major synclinorium. The general trend of the mineralisation is ENE-WNW with steep dip of 70° to 80° due north.

S	}	Top Soil
A		Granite / granite gneisses
K		Quartz chlorite schist
O		Tourmaline quartz mica greisen
L		Quartz Mica chlorite schist
I		Quartzite

3.0 MINERALISATION

Tungsten Mineralisation occurs in Greisen veins cutting across schist, country rock. Although Individual Greisen veins locally seem to be affected by Ptygmatic folding, the main Greisen zone appears to be fairly continuous along strike and dip as seen in various boreholes.

The scheelite and wolframite are the two major tungsten bearing minerals while Rutile, Molybdenite, Ilmentie, Pyrite, Chalcopryire, Pentlandite are other associated minerals.

The ore body can be divided into two lenses. The first lense occurring between section S-1 to S-3. This lense branches out into three small stringers in SW part. This has been proved upto 220 MRL level. Its continuation in deeper levels (170m and 120 MRL) is not known. The other lense also branches out into three small stringers in SW part. This ore body has been tested upto 120 MRL.

4.0 QUANTUM OF WORK DONE

MECL has carried out detailed Geological Mapping & topographical survey covering 0.3 Sq/Km area. 739.95 m. of drilling in 7 boreholes, 743 (719 +24) number of primary and check samples. 34 Nos.of composite samples for Emission Spectroscopy and 20 Nos.of samples for XRD studies, Petrographic studies on 30 Nos.of samples and Minerographic studies on 21 Nos of samples and 20 Nos of specific gravity determination test along with 1 Ore beneficiation study were also carried out by MECL in the Block. Based on the above data and earlier data of GSI, an exploration report was submitted by MECL.

5.0 ORE RESERVES ESTIMATION

It is a low grade tungsten deposit, the average deposit grade is estimated at 0.1% Wo₃ cut off and eliminating more than 3m lean parting is 0.32% Wo₃.

The semi quantitative analysis of 34 samples indicates the absence of any trace element, which can be considered as a possible byproduct.

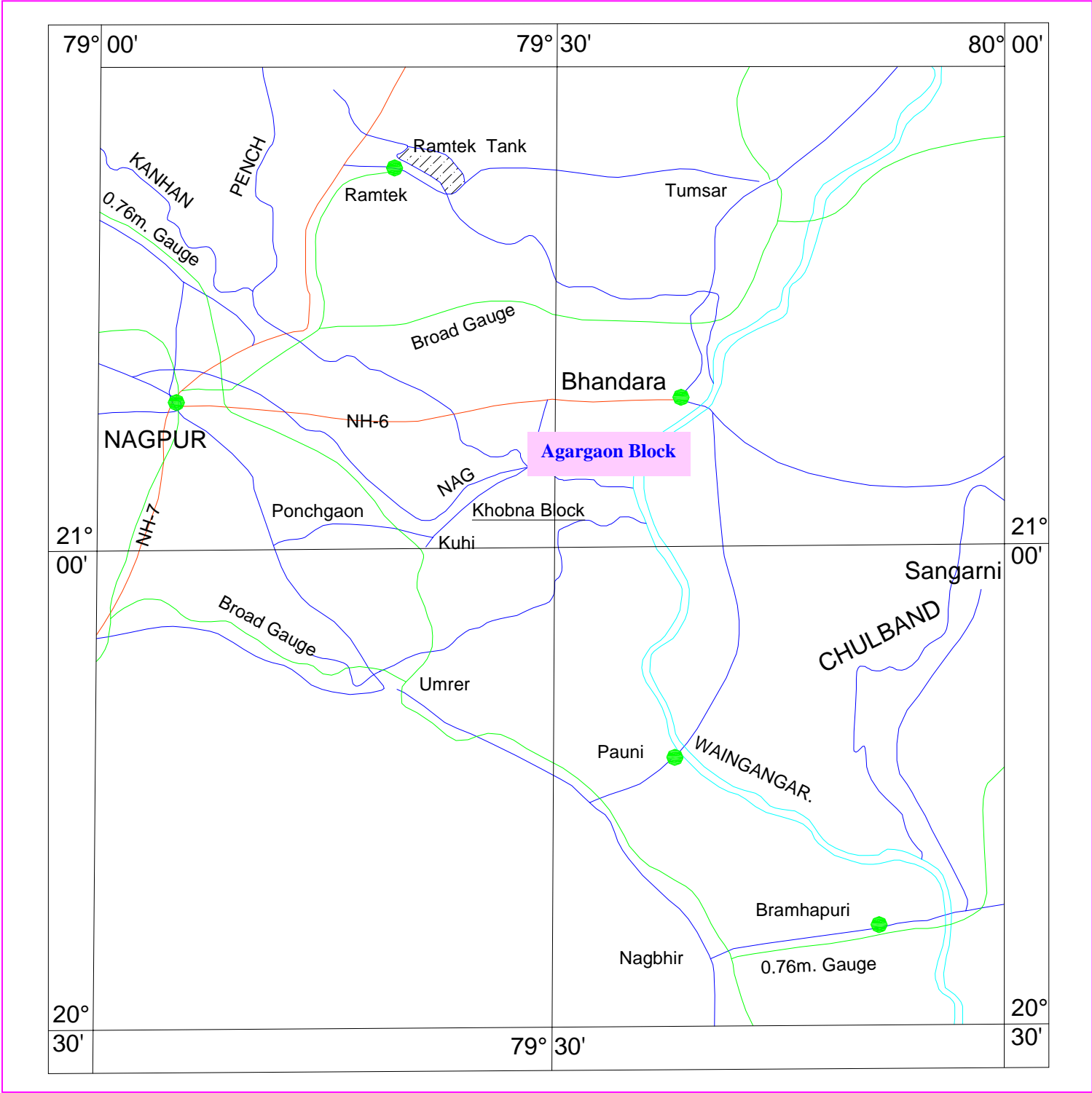
The gross reserves of “Probable Category” determined at 0.1% Wo₃ cut off by Geological cross section and longitudinal-vertical projection method are 577700 tonnes with metal content of 1831.366 tonnes having grade of 0.32% Wo₃ and ‘Possible Category’ 601217 tonnes with metal content of 1816.036 tonnes having grade of 0.30% Wo₃ respectively.

The Deposit has been classified as Category ‘B’ of UNFC 332.

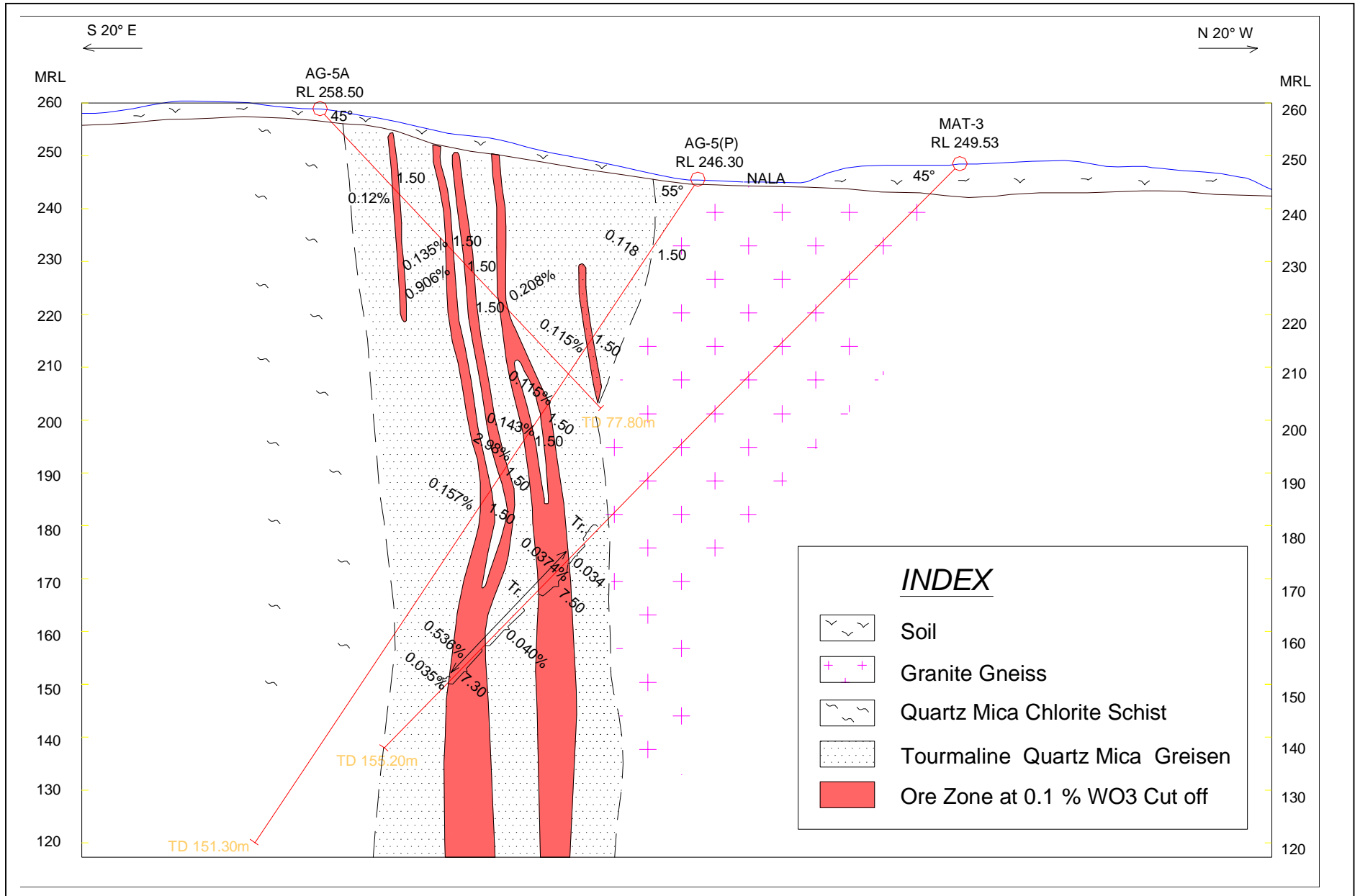
The studies on the baseline data of Environmental studies covering land use / land cover pattern studies have been carried out in the block.

The Total Cost of Exploration is Rs. 34.71 Lakhs.

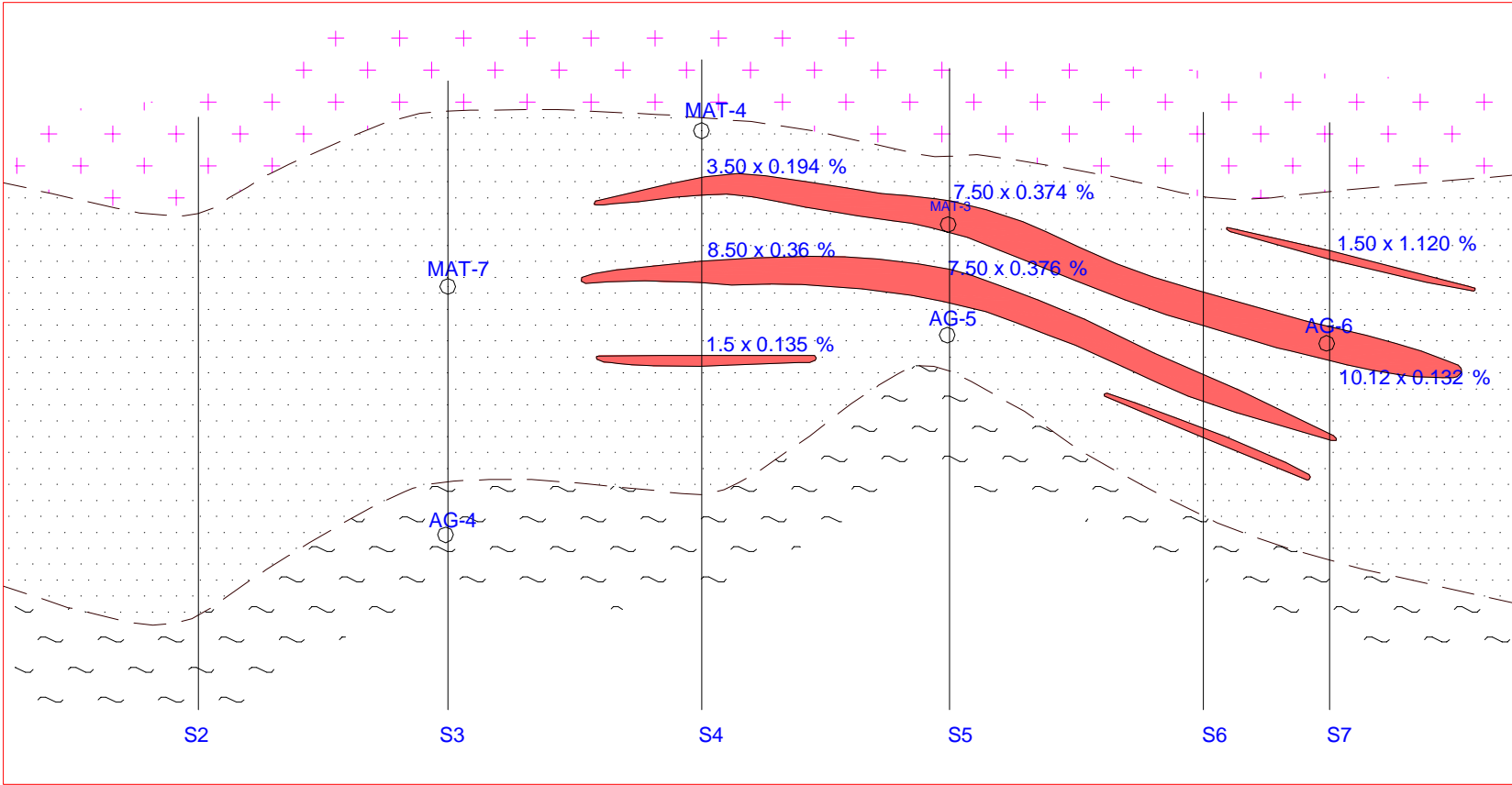
Block Location Plan Agargaon Block



Geological Cross Section



Level Plan at 170 mRL



INDEX

+	Granite Gneiss
~	Quartz Mica Chlorite Schist
.	Tourmaline Quartz Mica Greisen
■	Ore Zone at 0.1 % WO3 Cut off