

Narmadapur bauxite project

Bauxite, which derived its name from a locality le- bauxe in France, is the principal ore of Alluminium. With increased demand of Alluminium and depletion of known deposits it has become essential to investigate new deposits and to prove the known but unexplored deposits. Mainpat deposits were known since last so many years and now are being explored.

Location:-

The Narmadapur bauxite block is a part of mainpat plateau, is situated in northeastern part of Chhattishgarh, Sarguja district. It is bounded between latitudes 22°47'54.56"N to 22°49'23.31"N and longitudes 83°20'3.48"E to 83°20'52.97"E. It is covered in part of toposheet no 64N/1 and 64N/5.

Exploration of proposed area is about 80 km from district headquarter Ambikapur. It is connected to Ambikapur through Ambikapur - Darima road. The village lying over the plateau are interconnected by fair- weather roads. Nearest railway head to the area is Ambikapur which is about 82 km by road via Kamaleshwarpur from Narvadapur.

Geology of the area:-

The area of Mainpat plateau and its surrounding possesses a wide range of types varying in age from Archaean to Recent. Archean are presented by granites, gneises, phyllites, quartz, muscovite-schists, muscovite-sericite-schists, quartzites, BMQ etc. Granites are intruded by basic rocks, namely gabbro and dolerite. Pegmatites and quartz veins are also found as intrusive within the granites.

The Archean are unconformably overlain by Talchir boulder beds, which is present only in the western extremity of the plateau. On the rest part of the plateau infra- trapeans (Lametas) are found to occur unconformably over the granites. Approximately 100m thick basaltic lava flow, Deccan Trap covers the entire plateau overlying the lametas. This plateau basalt is capped with thick laterite profile. Within this laterite profile, pockets, lenses and boulders of bauxite are found to occur. Upper levels of the plateau are mainly covered with soil and exposures of bauxite are usually noticeable in the nala section and escarpments.

The study area experienced faulting and intense shearing. Central India shear zone trending approximately E-W passes through the center of the plateau. Northern boundary of the plateau is bounded by a fault running along WNW-ESE direction. Similarly, faulting has occurred further North of this fault, resulting in intense silicification and crumpling in rocks.

Block Status:

Exploration agency name- m/s **Maheshwari mining pvt ltd.**

Exploration status - G1 Level

Total area - 285.25 Ha

Total meterage - 13248 mtrs.