**MINERAGRAPHIC STUDIES CARRIED OUT ON SAMPLES COLLECTED FROM BEDROCK IN**

**DHAVALAPUR BLOCK, NAGPUR DISTRICT, MAHARASHTRA**

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| **Sl. No.** | **Sample**  **No. & Location** | **% of ore minerals in polished section** | **ORE MINERAL COMPOSITION** | | | | **Description** |
| **Major**  **>5%** | **Minor**  **<5% - >1%** | **Accessory**  **<1% - >0.1%** | **Traces**  **<0.1%** |
|  | DP/MG/01 | 16 | Psilomelane (80)  Jacobsite (20) | …. | …. | …. | Psilomelane occurs as fine to medium patches and as very thin to thin dendritic fillings. Jacobsite is present as fine to medium subhedral to anhedral grains and patches being replaced by psilomelane, at places. |
|  | DP/MG/02 | 24 | Psilomelane- Goethite (83)  Jacobsite (15) | Limonite (2) | Pyrite  Hematite  Digenite-Chalcocite  Chalcopyrite | …. | Psilomelane and goethite together occurs as intermixed and as well as separated thin to moderately thick veins/ veinlets, fine to medium disseminated patches and as very thin dendritic fillings. Jacobsite is present as fine subhedral to anhedral grains in dissemination and is being replaced by hematite and psilomelane in areas. Limonite is seen present as reddish patches and fillings in association with goethite. Pyrite and chalcopyrite occurs as very fine specks. Digenite-chalcocite is noted as patches replacing chalcopyrite. |
|  | DP/MG/03 | 20 | Psilomelane (92)  Goethite (6) | Limonite (1)  Pyrrhotite (1) | …. | …. | Psilomelane occurs as thin to moderately thick fillings and as disseminated fine patches showing colloform texture in areas. Goethite is noted as patches and patchy fillings in association with and often being intermixed with psilomelane. Limonite is seen present as reddish amorphous aggregates and fillings along pores and cavities. Pyrrhotite occurs as very fine disseminated specks. |
|  | DP/MG/04 | 4 | Psilomelane (60)  Goethite (28)  Jacobsite (8) | Pyrrhotite (4) | Chalcopyrite | …. | Psilomelane and goethite are present as intermixed fine patches and very fine fillings. Jacobsite occurs as fine subhedral to anhedral grains. Pyrrhotite is noted as very fine disseminated specks. Chalcopyrite occurs as very fine specks in accessories. |