

MINERAGRAPHIC STUDY RESULTS, BHARATBAHAL G3 BLOCK

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%	
1.	MBMGM-01 MBMG-08 (70.40-70.50m)	14	Pyrite (52) Graphite (45)	Magnetite/ Jacobsite (3)	Chalcopyrite Covellite	....	Pyrite occurs as fine to medium anhedral patches, streaks and stringers aligned along the foliation. Graphite is present as fine to medium flakes and flaky aggregates disseminated throughout the specimen and showing parallel alignment. Magnetite/ jacobsite are noted as fine subhedral to anhedral grains. Chalcopyrite occurs as very fine specks in accessories associating bluish covellite patches in areas.
2.	MBMGM-02 MBMG -08 (67.60-67.70m)	13	Graphite (50) Pyrite (47)	Magnetite/ Jacobsite (3)	Chalcopyrite	....	Pyrite occurs as fine to medium anhedral to subhedral grains and patches in dissemination. Graphite occurs as fine to medium disseminated flakes and flaky aggregates showing crude alignment. Magnetite/ jacobsite are seen present as fine subhedral prismatic and anhedral grains in association. Chalcopyrite is noted as very fine hairline fillings and streaks in accessories.
3.	MBMGM-03 MBMG -04 (49.70-49.80m)	14	Graphite (58) Pyrite (42)	....	Chalcopyrite	....	Graphite occurs as fine to medium flakes and flaky aggregates disseminated throughout the specimen and showing parallel alignment. Pyrite occurs as fine to medium anhedral to subhedral disseminated grains and patches. Chalcopyrite is noted as very fine specks in accessories.
4.	MBMGM-04 MBMG -05 (76.10-76.20m)	15	Graphite (57) Pyrite (40)	Magnetite/ Jacobsite (2) Chalcopyrite (1)	....	....	Graphite occurs as medium to moderately coarse flakes and flaky aggregates showing parallel alignment and dissemination throughout the specimen. Pyrite occurs as fine to medium anhedral to subhedral disseminated grains, patches and streaks. Magnetite/ jacobsite are present as fine subhedral to anhedral grains. Chalcopyrite is noted as very fine specks and as hairline filings.
5.	MBMGM-05 MBMG -06 (11.60-11.70m)	38	Psilomelane(63) Goethite (30) Graphite (7)	....	....	....	Psilomelane and goethite together occur as intermixed patches and fillings showing colloform texture in areas. Graphite is present as fine disseminated flakes, often seen being entrapped within psilomelane-goethite patches.