

**Statement showing Minerographic studies of bed rock samples, Kalasapura Block, Chikkamagalur District, Karnataka**

**KALASAPURA BLOCK**  
**MINERAGRAPHIC STUDY RESULTS**

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.	MKBMS01	8	Hematite-Goethite (77) Pyrite (22)	Limonite (1)	Zircon	Chalcopyrite Pyrrhotite	Hematite-goethite occurs as intermixed granular aggregates, patches and as moderately thick reticulate fillings along intergranular places of lensoidal quartz. Hematite is also present as very fine specks as fracture fillings. Pyrite occurs as fine to medium anhedral to subhedral grains and patches. Limonite is seen present as reddish fillings and stains in association with hematite-goethite fillings. Zircon occurs as very fine slender prismatic and elliptical shaped grains in dissemination. Chalcopyrite and pyrrhotite are noted as very fine inclusions within pyrite.
2.	MKBMS02	1	Goethite (60) Pyrite (40)	....	Hematite	....	Goethite is present as fine to very fine patchy fillings. Pyrite occurs as very fine to fine disseminated specks/ grains, often seen being replaced by goethite fillings from periphery. Hematite is noted as very fine specks in accessories.
3.	MKBMS03	3	Ilmenite (86) Chalcopyrite (8)	Sphene (4) Digenite- Chalcocite (1) Bornite (1)	Covellite	....	Ilmenite occurs as fine subhedral to anhedral, skeletal and bladed grains in dissemination and is being replaced by very thin corona of sphene in areas. Sphene is also present as fine to very fine wedges and anhedral patches. Chalcopyrite occurs as medium to fine anhedral patches

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							being replaced by digenite-chalcocite and covellite from periphery. Digenite-chalcocite also occurs as fine anhedral patches. Bornite is noted as fine to very fine relicts within chalcopyrite.
4.	MKBMS04	Accessories	Magnetite Digenite Chalcopyrite Pyrrhotite	....	....	....	Magnetite occurs as very fine disseminated specks and as inclusions within mica minerals. Digenite is noted as fine anhedral patches. Chalcopyrite and pyrrhotite are seen present as very fine specks in traces.
5.	MKBMS05	2	Ilmenite (99)	Hematite (1)	Anatase	....	Ilmenite occurs as fine to medium subhedral to anhedral, bladed and streaky grains showing parallel alignment along the foliation. Hematite and anatase are noted as very fine specks along fractures as fillings.
6.	MKBMS06	4	Hematite (97)	Pyrite (3)	Zircon		Hematite occurs as fine to medium anhedral to subhedral grains, blades, patches and as fine fillings. Pyrite occurs as fine anhedral grains in dissemination. Zircon is noted as fine prismatic and subrounded zoned grains in accessories.