DETAILS OF MINERAGRAPHIC STUDIES OF BOREHOLE CORE SAMPLES OF DHRANG BLOCK, DISTRICT-KACHCHH, GUJARAT.

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.	MBD/M/01	*	Limonite Anatase Pyrite/ Pyrrhotite	….	….	….	Limonite occurs as very fine reddish amorphous aggregates dispersed throughout the specimen. Anatase is seen present as very fine specks, blades, subhedral grains and amorphous segregations in dissemination. Pyrite/ pyrrhotite are noted as very fine specks in traces.
2.	MBD/M/02	*	Anatase Limonite Goethite Pyrite Hematite	….	….	….	Anatase occurs as very fine amorphous particles and micro-crystalline grains disseminated throughout the specimen. Limonite occurs as reddish patches, fillings and as amorphous aggregates in areas. Goethite is present as very fine dendritic fillings. Pyrite and hematite occur as very fine specks in accessories.
3.	MBD/M/03	*	Anatase/ Rutile Goethite Hematite Limonite	….	….	….	Anatase/ rutile occur as very fine subhedral grains, blades and as micro-crystalline disseminations throughout the specimen. Goethite occurs as patches and patchy fillings. Hematite is present as very fine to fine subhedral to anhedral grains and as relicts within goethite. Limonite is seen present as reddish patches and amorphous aggregates in pockets.
4.	MBD/M/04	*	Anatase/ Rutile Limonite	….	….	….	Anatase/ rutile are present as very fine amorphous to micro-crystalline grains and bladed pseudomorphs,

			Hematite Pyrite				often seen segregated in pockets. Limonite occurs as reddish amorphous aggregates and patches in zones. Hematite is seen present as very fine specks in accessories. Pyrite is noted as very fine specks in traces.
5.	MBD/M/05	*	Limonite Hematite-goethite Anatase Pyrite/ Pyrrhotite	….	….	….	Limonite occurs as reddish amorphous aggregates, patches, fillings and stains. Hematite and goethite together occur as intermixed patches, fillings and very fine to fine grains. Anatase is seen present as very fine subhedral grains and amorphous aggregates in pockets. Pyrite/ pyrrhotite are noted as very fine specks in accessories.
6.	MBD/M/06	*	Limonite Anatase Goethite Hematite	….	….	….	Limonite occurs as reddish patches, stains and as amorphous aggregates. Anatase occurs as very fine amorphous to micro-crystalline segregations in pockets, especially in clay/ bauxite rich zones. Goethite is seen present as fine patches and cavity fillings in accessories. Hematite is found present as very fine relicts with goethitic patches.
7.	MBD/M/07	8	Ilmenite (98)	Goethite (2)	….	Hematite Pyrrhotite/ Pentlandite Chalcopyrite	Ilmenite occurs as very fine skeletal and bladed grains disseminated throughout the specimen. Goethite occurs as patches replacing ilmenite. Hematite, pyrrhotite/ pentlandite and chalcopyrite are noted as very fine isolated specks in traces.

N.B.: * Those specimens are having ore minerals are mostly dispersed as amorphous matter &/ or present as stains throughout the specimen, thus conventional modal calculation may mislead. Hence, % of ore minerals calculation is avoided.