

DETAILS OF MINERAGRAPHIC STUDIES OF BOREHOLE CORE SAMPLES OF NIMBLI BLOCK, TEHSIL: FATEHGARH, DISTRICT – JAISALMER, RAJASTHAN

Sl. No.	Sample No.	% of ore minerals in polished section	ORE MINERAL COMPOSITION				Description
			Major >5%	Minor <5% - >1%	Accessory <1% - >0.1%	Traces <0.1%	
1.	MNP21/M-01	1	Hematite (80) Pyrite (8) Rutile/ Anatase (7) Limonite (5)	....	....	....	Hematite, pyrite and rutile/ anatase are present as very fine disseminated specks throughout the specimen. Limonite occurs as reddish patches, fillings and amorphous aggregates, especially along pores and cavities.
2.	MNP16/M-02	3	Goethite (60) Hematite (34) Limonite (5)	Rutile/ Anatase (1)	Pyrite	....	Goethite and hematite together occur as intermixed patches and patchy fillings. Hematite is also seen present as very fine disseminated specks. Limonite occurs as reddish fillings in association with goethite-hematite fillings. Rutile/ anatase occur as very fine blades and specks in association with hematite specks. Pyrite is noted as very fine specks in accessories.
3.	MNP22/M-03	2	Hematite (60) Rutile/ Anatase (30) Limonite (10)	....	Goethite	....	Hematite and rutile/ anatase are present as very fine disseminated grains/ specks. Limonite occurs as reddish patches, fillings and as very fine amorphous aggregates. Goethite is noted as very fine fillings in areas.
4.	MNP32/M-04	2	Goethite-Hematite (90) Rutile/ Anatase (5) Limonite (5)	....	....	....	Goethite and hematite together occur as intermixed patches and patchy fillings showing compositional zoning, where hematite is seen being replaced by goethite. Hematite is also noted as very fine disseminated specks associating very fine specks and blades of rutile/ anatase. Limonite is seen present as reddish fillings and as amorphous aggregates.
5.	MNP32/M-05	5	Hematite (88) Goethite (9)	Limonite (2) Magnetite/ Ilmenite (1)	....	....	Hematite occurs as medium to moderately coarse patches and patchy fillings and as very fine grains. Goethite is present as fine fillings, seen replacing hematite in areas. Limonite occurs as reddish fillings in association with goethite fillings and as amorphous aggregates especially along pores and cavities. Magnetite/ ilmenite are noted as fine subhedral grains.