

PETROGRAPHIC STUDIES CARRIED OUT ON CORE SAMPLES COLLECTED FROM DONGARGAON-KASARA BLOCK, YAVATMAL DISTRICT, MAHARASHTRA

Sl. No.	Sample Number & Location	Texture	Mineral Composition			Description
			Major >5%	Major >5%	Accessory <1%	
1	DK-PET-01	It is a grey coloured fine to very fine grained rock showing granular texture. It reacts slowly with cold & dilute HCl.	Dolomite Calcite Quartz	Opakes/ Ferruginous matter	Gypsum	The specimen is made up of fine to very fine subhedral aggregates of dolomite showing compact contacts. Sparry calcite and micritic patches are noted in areas. Quartz occurs as very fine to fine disseminated grains, often seen clustering in pockets. Subrounded secondary quartz fillings are observed, at places. Opakes occur as very fine specks and as fillings along the intergranular contacts associating reddish ferruginous fillings and stains. Gypsum is seen present as patchy pseudomorphs, replacing dolomite. The specimen is an <u>impure dolomite</u> .
2	DK-PET-02	It is a light grey coloured fine to very fine grained rock showing granular texture. It reacts slowly with	Dolomite Calcite Quartz	Opakes/ Ferruginous matter	Gypsum	Dolomite occurs as fine to very fine subhedral grains showing compact contacts. Very fine hairline irregular fractures are common in the specimen. Micritic and sparry patches are noted in areas. Quartz occurs as very fine to fine clasts and also seen present as patchy

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		cold & dilute HCl.				fillings. Opaques/ ferruginous matter are seen present as very fine fillings along fractures. Opaques are also found present as very fine specks and as hexagonal grains. Gypsum patches/ grains are seen replacing dolomite in areas. The specimen is an <u>impure dolomite.</u>
3	DK-PET-03	It is a dark grey coloured fine to very fine grained rock showing granular texture. It reacts slowly with cold & dilute HCl.	Dolomite Opaques/ Ferruginous matter	Quartz	Sericite	The specimen is composed of fine to very fine equigranular rhombic grains of dolomite. Stylolitic cracks are noted in the specimen and are mostly filled by opaque/ ferruginous fillings. Opaques/ ferruginous fillings are seen present as very fine fillings along intergranular contacts throughout the specimen. Opaques are also found present as very fine specks, anhedral grains and patches. Quartz occurs as very fine silt sized disseminated clasts. Sericite is noted as very fine flakes, often seen associated with ferruginous filling within cracks. The specimen is a <u>dolomite.</u>

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4	DK-PET-04	It is a dark grey coloured very fine grained massive rock. It reacts instantly with cold & dilute HCl.	Calcite Dolomite Opakes/ Ferruginous matter		Quartz	The specimen is made up of very fine micro-crystalline aggregates of micrite. Calcite veins and secondary patchy fillings have seen intruded. Very fine dolomitic rhombs are seen developing in areas. Opakes/ ferruginous filling are common in the specimen, often intruding along stylolitic cracks. Quartz is noted as very fine silt sized grains in accessories. The specimen is a <u>micritic limestone</u> .
5	DK-PET-05	It is a dark grey coloured fine to very fine grained rock showing granular texture. It reacts slowly with cold & dilute HCl.	Dolomite Opakes/ Ferruginous matter Calcite	Quartz	Sericite	Dolomite occurs as fine to very fine subhedral rhombs. Opakes/ ferruginous matter are present as very fine fillings along stylolitic cracks and intergranular spaces. Thin calcite veins have seen intruded in areas. Patchy sparry fillings are also noted, at places. Quartz occurs as very fine silt sized clasts. Sericite is noted as very fine flakes in accessories. The specimen is a <u>dolomite</u> .