

PETROGRAPHIC STUDIES CARRIED OUT ON SAMPLES COLLECTED FROM BOREHOLE CORES IN WEST OF YEPALAMADHAVARAM BLOCK, SURYAPET DISTRICT, TELANGANA

Sl. No.	Sample Number & Location	Texture	Mineral Composition			Description
			Major >5%	Minor <5%->1%	Accessory <1%	
1	MWYB-PG-01	It is a very fine grained massive rock showing crude foliation. It reacts instantly with cold and dilute HCL.	Calcite Quartz	Opagues	Clay minerals	The specimen is made up of very fine micro-crystalline micritic aggregates showing crude alignment. Thin to moderately thick sparry patches, fillings and lenses are seen present showing alignment along the foliation. Quartz occurs as very fine silt sized anhedral and elongated clasts showing parallel alignment. Opagues are seen present as very fine disseminated grains. Very fine clayey fillings are noted along the foliation, in areas. The specimen is a <u>foliated impure micritic limestone.</u>
2	MWYB-PG-02	It is a very fine grained massive rock showing crude foliation. It reacts instantly with cold and dilute HCL.	Calcite Quartz	Clay minerals Opagues	Sericite Biotite	The specimen is composed of very fine micro-crystalline micritic aggregates showing crude alignment. Sparry lenses and fillings are common in the specimen and are aligned along the foliation and showing effect of shearing, viz. sparry lenses are showing rotational movement in areas. Quartz occurs as very fine silt sized anhedral and elongated grains and micro-crystalline aggregates,

						often seen clustered within sparry lenses and showing parallel alignment. Clayey fillings are noted along the foliation and often associating sericite flakes with it. Biotite is seen present as very fine flakes in accessories. The specimen is a <u>foliated impure micritic limestone.</u>
3	MWYB-PG-03	It is a very fine grained massive rock showing crude foliation. It reacts instantly with cold and dilute HCL.	Calcite Quartz	Sericite	Clay minerals Opaques Rutile	Calcite occurs as very fine micro-crystalline to crystalline granular aggregates showing crude alignment. Sparry patches and lenses are noted and aligned along the foliation. Quartz occurs as very fine to silt sized to sand sized clasts and as lensoidal clusters showing parallel alignment. Sericite is present as very fine flaky aggregates, intruding as fillings along the foliation and associating very fine clay minerals with it. Opaques are noted as very fine specks in accessories. Rutile is found present as very fine blades in traces. The specimen is a <u>foliated impure micritic limestone.</u>