

## PETROGRAPHIC STUDIES CARRIED OUT ON SAMPLES COLLECTED FROM BOREHOLE CORES IN REVURU BLOCK, DISTRICT: SURYAPET, TELANGANA

Sl. No.	Sample Number & Location	Texture	Mineral Composition			Description
			Major >5%	Minor <5%->1%	Accessory <1%	
1	MRB-PG-01	It is a light grey coloured very fine grained massive rock showing crude foliation. It reacts instantly with cold and dilute HCl.	Calcite Quartz	Opakes	Clay minerals	The specimen is made up of very fine micro-crystalline micritic aggregates showing crude alignment. Occasional sparry patches are also seen present aligned along the foliation. Very thin calcite veins have seen intruded across the foliation. Quartz occurs as very fine silt sized clasts, mostly segregating in streaky clusters and showing parallel alignment. Opakes are noted as very fine disseminated specks. Very fine clayey fillings are observed along the foliation. The specimen is a <b><u>foliated impure micritic limestone.</u></b>
2	MRB-PG-02	It is a light grey coloured very fine grained massive rock showing crude foliation. It reacts instantly with cold and dilute HCl.	Calcite Quartz	Opakes	Clay minerals Sericate	Calcite occurs as very fine micro-crystalline aggregates of micrite showing crude alignment. Sparry patches are common in the specimen, mostly segregated in lensoidal custers and elongated zones and showing parallel alignment. Quartz occurs as very fine clasts, seen segregated in zones and showing parallel alignment. Opakes are noted as very fine disseminated grains. Very fine clayey fillings are observed along the foliation. Sericate is seen present as very fine flakes in accessories. The specimen is a <b><u>foliated impure micritic limestone.</u></b>

Sl. No.	Sample Number & Location	Texture	Mineral Composition			Description
			Major >5%	Minor <5%->1%	Accessory <1%	
3	MRB-PG-03	It is a light grey coloured very fine grained massive rock showing crude foliation. It reacts instantly with cold and dilute HCl.	Calcite Quartz	Opagues	Clay minerals	The specimen is mostly composed of very fine micro-crystalline aggregates of micrite showing crude parallel alignment. Sparry patches common in the specimen aligned along the foliation and often showing rotational movement. Very fine to fine peloid like structures are seen present. Quartz occurs as silt sized to very fine sand sized clasts, often segregating in pockets and as thin bands showing parallel alignment. Opagues occur as very fine disseminated specks. Dirty semi-opaque clayey fillings are noted along the foliation. The specimen is a <b><u>foliated impure micritic limestone.</u></b>