



**STATEMENT SHOWING RESULTS OF THE PETROGRAPHIC STUDIES
IN BANDHA AND JAMUNIYA BLOCLS, SATNA DISTRICT, MADYA PRADESH**

Sl. No.	Sample Number & Location	Texture	Mineral Composition			Description
			Major >5%	Minor <5%->1%	Accessory <1%	
1	BJ-01 24°28'04.81"N, 81°02'29.00"E	It is a dark grey coloured fine grained massive rock showing fast reaction with cold and dilute HCl.	Calcite	Quartz Clay minerals Feldspar	Chlorite Opagues Glauconite	The specimen is made up of fine to medium spherical ooids (with concentric rings) and elliptical peloids supported by very fine to fine grained granular sparry matrix. Fine to moderately coarse elongated, ellipsoidal, crescent shaped and irregular patchy bio-clasts are found present in the specimen. Quartz is often noted at the nucleus of ooids and within bio-clasts. Quartz and feldspar are also noted as silt sized to very fine sand sized disseminated clasts within sparry matrix. Dirty semi-opaque clayey fillings have seen intruded, often associating chlorite with it. Clay minerals and chlorite patches have also seen intruded within certain bio-clasts and ooids. Opagues are present as very fine specks in accessories. Glauconite is found present as very fine patches in areas. The specimen is a limestone (Oosparite)



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			Major >5%	Minor <5%->1%	Accessory <1%	
2	BJ-02 MJBH-01, Depth: 27.05- 27.10m	It is a dark brown coloured very fine grained thinly laminated rock.	Quartz Ferruginous matter Feldspar Clay minerals	Opaques Sericite	Glauconite	Quartz and feldspar occur as silt sized to very fine sand sized clasts, often seen segregated according to grain size. Ferruginous matter is present as reddish patches and stains, often seen disposed in thin sub-parallel bands. Very fine clay particles are developing after feldspar alterations. Opaques are present as patchy relicts within ferruginous patches and also seen present as very fine specks. Sericite is noted as very fine disseminated flakes, showing parallel alignment. Glauconite is observed as very fine pellets in accessories. The specimen is a <u>ferruginous shale</u>.