



PERMIAN-TRIASSIC PALYNOFLORAL TRANSITION IN THE SATTUPALLI AREA, CHINTALAPUDI SUB-BASIN, GODAVARI GRABEN, ANDHRA PRADESH, INDIA

NEERJA JHA

BIRBAL SAHNI INSTITUTE OF PALAEOBOTANY, 53, UNIVERSITY ROAD, LUCKNOW-226 007, INDIA
E-mail:neerjajha@yahoo.co.uk

ABSTRACT

Palynological investigation of sub-surface sediments of the borecore SSP-133 from the Sattupalli area, Chintalapudi Sub-basin has revealed presence of three palynoassemblages, one belonging to Late Permian (Raniganj) palynoflora and two belonging to Early Triassic (Panchet) palynoflora. Assemblage-I characterised by dominance of striate disaccate pollen chiefly, *Striatopodocarpites* and *Faunipollenites* alongwith presence of rare but stratigraphically significant taxa viz., *Strotersporites*, *Verticipollenites*, *Corisaccites*, *Guttulapollenites*, *Hamiapollenites*, *Falcisporites*, *Chordasporites*, *Crescentipollenites*, *Striatites*, *Striomonosaccites*, *Lunatisporites* represents Late Permian.

Assemblage II is characterised by high percentage, of taeniate disaccates chiefly, *Lunatisporites*, while Assemblage III is characterised by abundance of cingulate-cavate trilete spores, chiefly, *Lundbladispota* and *Densoisporites*. Striate disaccates show a sharp decline in these two assemblages. Early Triassic palynoflora has been recorded for the first time in the Sattupalli area indicating existence of the Panchet sediments in the Chintalapudi Sub-basin.

The study further supports the view studies of Jha and Srivastava.(1996) that the Kamthi Formation represents Early Triassic (=Panchet Formation) overlying the Raniganj-equivalent sediments with a gradational contact.

Keywords: Palynology, Gondwana, Permian, Triassic, Godavari Graben