6. SCOPE OF RESEARCH

After reviewing previous work carried out in the area this research work endeavours to fulfil following objectives in the present study.

a) Identification of sequence boundaries and flooding surfaces on logs within Sylhet Tura and Kopili formation based on selected regional dip & strike profiles in accordance with modern sequence stratigraphic principles.

b) Correlation of identified parasequences along dip and strike well profiles across the North Assam Shelf. Identification of facies within parasequences on logs & integration with studies carried out in the lab. Calibration of sequence tops near Tura Sylhet and Kopili formations on seismic. Special studies to understand the prevailing structural disposition and fault pattern in the area.

c) Preparation of Relief, Time structure and Isochronpach/ Isopach maps to understand the structural configuration of the area.

d) Paleostructural analysis and its influence on sedimentation.

e) Generations Facies distribution maps. Sand shale ratio maps along with triangular facies plots wherever necessary to understand the sedimentation pattern of Tura Sylhet & kopili Formations.

f) Evolving a comprehensive depositional model for reservoirs of Tura, Sylhet and Kopili formations (late Paleocene to Eocene age).

g) To decipher the Hydrocarbon prospectivity of the area by superposing the paleoconfiguration of the North Assam Shelf with reservoir distribution.

This comprehensive regional work will help in understanding the hydrocarbon potential of Paleocene-Eocene reservoir sands in North Assam Shelf.