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## Field Report

A fieldwork report on the Tertiary Stratigraphy of Kachchh, Gujarat

(15th Dec 2019 to 27th Dec 2019)



By  
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M.Sc I

Submitted to

Department of Geology  
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## CERTIFICATE

This is to certify that Ms. Nishrin Basir Class- M.Sc.-I UID No- 198418 has successfully carried the compulsory field work at Kachchh in Gujarat State from 16<sup>th</sup> December, 2019 - 25<sup>th</sup> December 2019 as a part of the curriculum.

### Field Instructors



Dr. Shweta Gurav

### Field Instructors



Mr. John Dsouza



Dr. Pravin Henriques  
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## ABSTRACT

The Field study was done in Kachchh basin, Gujarat in the western part of India. Kachchh basin is peri-cratonic rift basin which has preserved sediments from Triassic to Recent. The Tertiary sediments occur in the western part of the basin with major part occurring in the offshore region. The field work carried out the study of Tertiary lithostratigraphy of the formations. The variety in lithology helps in inferring the time and deposition environment of the sediments. The outcrop in Naliya region gives you complete stratigraphy of the area which helped in understanding the lithology and types of fossils present in the beds. The report covers six Tertiary formation of Kachchh starting from Matanomadh to Khari Nadi. Each Formation is observed and discussed and a specific study is carried out with respect to type of sedimentary structures, fossil assemblages, lithology present and sequence of stratigraphy, depositional environment. Lithologs were created for correlating the type section and reference section and for better understanding of the sequence and how they are deposited.