

Government Zirtiri Residential Science College



Geology Department

Report on Geological Investigation Of

Aizawl Municipal Area

Funded by:

Rashtriya Uchchatar Shiksha Abhiyan (RUSA), GZRSC



Duration of field trip: 20th April, 2018.

Number of teachers: 3 (Dr. C. Lalmuankimi, C. Lalremruatfela, Cindy Lalmuankimi)

Number of students: 20 (Male 16, Female 4)

Purpose of Field trip: Mizoram is a North-eastern state of India bordering three states, Assam (North), Tripura (North-west) and Manipur (North-east) and sharing international boundaries with Bangladesh to the West and the Chin Hills of Myanmar flanking the Eastern extent of the state. As a part of one of the thickest sedimentary basin in the world, it serves as a significant setting for scientific discourse due to its Geo tectonic evolution as well as prospects in petroleum resources.

The Surma basin of Mizoram is characterized by a series of continuous and discontinuous north-south trending (N15°E to S 15°W) sub parallel enechelon regional anticlinal ridges and synclinal valleys. The oblique subduction of the Indian plate under the Burma plate has produced a westward migrating accretionary prism resulting in a very diverse tectonic setting and is still evolving till date.

Aizawl, the capital of Mizoram is located North of the Tropic of Cancer between N23°49'40.16" and N23°40'59.93" latitude and E 92°46'14.97 and E92°38'23.56" of longitude and about 4000 ft above mean sea level. Aizawl district is by far the most populous district in Mizoram with a growth rate of over 30% in the last 10 years.

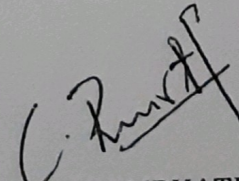
Due to the combination of its diverse and evolving geological setting and increasing population, Aizawl City is becoming more prone to Natural and manmade disasters especially during the monsoons. The steep westward cliff side and dipping beds along the eastern flanks of the Aizawl anticline pose great threat in terms of Mass movement activities. With this in mind, the Principal, Mr. Laltanpuia and the RUSA Coordination committee granted Geology department for a one day programme on

"Geological Investigation of Aizawl Municipal Area". The purpose of this study is to develop a better understanding of the geological setup of Aizawl municipal area in terms of its vulnerability to natural disasters. The field investigation will also help geology students to develop awareness regarding the modification of landscapes and will also enhance student's capabilities in understanding the dynamics of geological structures in the field, to identify and interpret geological data.



Detailed programme:

Date	Time	Programme
20.04.2018 (Friday)	10: 00 A.M	<ol style="list-style-type: none"> 1. Departure from Ramhlun North 2. Roadside fieldwork (Bawngkawn to Folkland) 3. Field lecture and practical work on identification of outcrops, geological structures and measuring and recording geological data using brunton compass and field note 4. Taking geological reading along World Bank Road exposures
	10:00-10:30 A.M	
	10:40-11:00 A.M	
	11:00-12:50 P.M	
	1:00-1:30 P.M	<p style="text-align: center;">LUNCH</p> <ol style="list-style-type: none"> 1. Arrival at Hlimen quarry 2. Measuring outcrops 3. Fossil hunting 4. Photo session 5. Arrival at Ramhlun North
	2:20 P.M	
	2:30 – 4:30	
	5:20 p.m	


 (C.LALREM RUATFELA)

Coordinator