

# Government Zirtiri Residential Science College



## Geology Department

### Report on Scientific Investigation/Field Trip

At

Lungkhawdur, Vanchengpui

Funded by:

Rashtriya Uchchatar Shiksha Abhiyan (RUSA), GZRSC



**Duration of field trip:** 27<sup>th</sup> to 1<sup>st</sup> March, 2018.

**Number of teachers:** 2 (C. Zoramthara, C. Lalremruatfela)

**Number of students:** 7 (4 Students from VI Semester and 3 from IV Semester)

**Purpose of Field trip:** As one of the North Eastern States of India, Mizoram is diverse from mainland India, not just in culture, religion and society but also in term of Geologic and tectonic setting. Mizoram consists of North-South trending mountains with deep gorges leading to river valleys, with meandering paths governed by complex structural alignments and severe weathering and erosion. This combination of natural activities leads to rapid evolution of landscape with human development contributing to the cause.

Geology subject was first introduced in Government Zirtiri Residential Science College in 2011 as an optional subject and promoted as a full course subject in 2016. Since Geology is a very young subject compared to other branches of science in Mizoram, there are many areas which are yet to be investigated and understood in term of its origin, geological and structural evolution. In light of this, the Principal (Mr. Laltanpuia) and RUSA Co-ordination Committee, GZRSC funded Geology department for the scientific investigation of one of the most remarkable Geological wonder of Mizoram, "Lungkhawdur" located near Vanchengpui village.

Vanchengpui is a village on the North-Eastern part of Serchhip District, Mizoram located between N23°26'23.59" and N23°25'59.93" latitude and E 93°02'36.97 and E93°02'53.46" of longitude. It is a small village with about 160 houses having a population of about 900 with most of the people depending on farming as their

main livelihood. The area under investigation, "Lungkhawdur" is about 1 km South-west from Vanchengpui village. The name "Lungkhawdur" means Lung (Rock) and khawdur (Dark cloudy sky) as it resembles a dark cloudy sky.

Detailed programme is given below:

Date	Time	Programme
27.2.2018	6:30 a.m	1. Departure from Aizawl
		2. Roadside fieldwork from Zemabawk to Tuirial
	8:30 a.m	3. Tea at Tuirial
		4. Roadside fieldwork along Tuirial-Seling
	10:45 a.m	5. Breakfast at Seling
		6. Fieldwork along Seling-Keifang- Kawlkhulh roadside and quarries.
	5:30 p.m	7. Lunch at Kawlkhulh
	7:15 p.m	8. Arrival at Vanchengpui village
	8:30 p.m	9. Dinner
28.2.2018	7:00 a.m	1. Preliminary survey of Lungkhawdur
	9:00 a.m	2. Breakfast
	1:00 p.m	3. Lunch
		4. Detailed field investigation
	10:00 a.m To 3:30 p.m	a) Area measurement using GPS b) Tape survey using tape extensometer c) Measurement and recording of structures d) Geological survey of surrounding area e) Preparation of litholog f) Lithological survey
	3:30 p.m To 6:00 p.m	g) Collection of samples from Surrounding areas h) Collection of samples from Lungkhawdur i) Measurement of water and soil temperature
	8:00 p.m	5. Geological field work and collection of samples in and around Vanchengpui Village.
		6. Dinner at Kawlkhulh
1.3.2018	2:00 a.m	1. Arrival at Aizawl
	2:00 To 3:00 a.m	2. Dropping off students at their Localities

  
(C.LALREM RUATFELA)

Tour Coordinator