

**ANNUAL ACHIVEMENTS REPORT OF THE DIRECTORATE OF GEOLOGY AND
MINING DURING 2023 – 2024**

A. REPORT ON THE IMPLEMENTATION OF THE PROVISIONS OF THE RIGHT TO INFORMATION ACT, 2005 FOR THE YEAR 2023 – 2024

1. No. of DDAs in the office	-	01
2. No. of SPIOs in the office	-	01
3. No. of SAPIOs in the office	-	01
4. No. of applications received from within the State in writing, email, post, etc.	-	09
5. No. of applications received from within the State via Mizoram RTI Online	-	12
6. No. of applications received from outside the State in writing, email, post, etc.	-	NIL
7. No. of applications received from outside the State via Mizoram RTI Online	-	NIL
8. Total no. of RTI applications received during the year under report	-	21
9. No. of information furnished	-	21
10. No. of applications rejected/denied	-	NIL
11. No. of applications withdrawn by the applicant	-	NIL
12. No. of applications not collected by applicant	-	NIL
13. No. of First Appeal received	-	NIL
14. No. of First Appeal disposed	-	NIL
15. Total amount of RTI application fees collected	-	Rs. 90/-
16. Total amount collected for cost of providing information	-	Rs. 174/-

B. ESTABLISHMENT

During 2023 – 2024, one (1) post of Geologist and one (1) post of Assistant Controller of Mines were filled up and both have joined the office. Also, the recruitment of four (4) posts of Junior Technical Assistant was conducted. However, final result is yet to be published. Two (2) staff; one JTA and the other, IV- Grade were regularized.

With the superannuation of Pu Lalthazuala, Pu R. Zirtluanga was promoted to the Director while Pu Liangura Pachuau also got promoted to Joint Director. One (1) Finance & Accounts Officer (FAO) was also posted in the office.

C. MINOR MINERAL INVESTIGATION, DEVELOPMENT AND ADMINISTRATION

The revenue generated from minor minerals during 2023 – 2024 has accrued to Rs. 11,25,69,183/- which is the highest ever achieved by the Department since the inception of the Department.

The revenue generated by mineral section including DMF fund, PEL Fees and other receipt i.e. Laboratory during the last year is shown below:

Year	Minor Minerals (in Rs.)	District Mineral Foundation Fund	PEL Fees (in Rs.)	Total (in Rs.)
2023 - 2024	11,25,69,183	34,22,202.96	1,24,99,890	12,88,69,976
	Other Receipt during 2023 - 24 (Laboratory) Rs. 3,78,700			

1. Rules published in the Mizoram Gazette

As mandated by the Central Government and for better administration in mineral sector and to curb illegal mining, the Department framed the following rules which were published in the Mizoram Gazette on the 4th of October 2023:

- a. **The Mizoram Minor Minerals (Concession and Prevention of Illegal Mining) Rules, 2023**
- b. **The District Mineral Foundation Rules of Mizoram, 2023**

2. Lunglei Zonal Geology & Mining Office

The Lunglei Zonal Geology & Mining Office was inaugurated on the 2nd September 2023. Out of thirteen new posts that had been created by the Govt. of Mizoram, one post of Assistant Controller of Mines had been filled while the result for four (4) posts of Junior Technical Assistant (JTA) is awaited.

3. Highlight of main activities under Mineral Section:

The following table highlighted the main activities under the scheme during the reporting year:

A.	Pre-Feasibility Survey (PFS) for site of applied stone quarries for issuing Mining Lease/Permit	ML - 04 locations MP - 63 locations
B.	Site Inspections for Renewal of Mining Lease/Permit	NIL
C.	Safety Inspections & Investigation of existing quarries and road construction agencies under NHIDCL especially Explosives & Blasting Problems	03 locations
D.	Joint Inspections for quarrying operations	05 locations
E.	Blast Design preparation & PFS for Explosive License	38 locations
F.	Crackamite usage Design for Stone Extraction	NIL
G.	Curbing Illegal Mining at the mining sites	05 locations
Total		118 locations

4. District Survey Report

Sub-Divisional Committee for each district was constituted to prepare District Survey Report. The department had taken the initiative in preparing DSR's and field surveys had been carried out for six (6) districts viz. Serchhip,

Champhai, Saitual, Hnahthial, Mamit and Kolasib. DSR for Serchhip District is at its final stages and draft report had been handed over by Sub-Divisional Committee through District Magistrate, Serchhip to State Level Expert Appraisal Committee (SEAC) for scrutiny.

5. Grant of Mining Lease and Mining Permits during 2023 - 2024:

The following table shows the overall Mining Leases/Permits granted during 2023 - 2024 and renewal of Mining Leases/Permits to applicants:

Month	New Permits		Renewal	Blast Design
	Permit	Lease		
April, 2023	0	0	0	0
May, 2023	2	0	20	0
June, 2023	11	0	95	0
July, 2023	8	0	32	0
August, 2023	4	2	34	0
September, 2023	7	3	26	0
October, 2023	3	1	20	0
November, 2023	4	0	16	4
December, 2023	7	0	9	3
January, 2024	1	3	24	0
February, 2024	0	7	34	0
March, 2024	1	8	38	0
Total	46	24	348	7

6. Quantity of Minor Mineral extraction:

Quantity of Minor Minerals extracted				
Normal Royalty (in cu.m)		Fine (in cu.m)		Brick Earth (in cu.m)
STONE	SAND	STONE	SAND	
1271287.18	60775	8986	19819	NIL

7. Accrual of Revenue collection from minor minerals by the Directorate during 2023 - 2024

The following table below shows the month-wise revenue receipt from the minor minerals.

MONTH	STONE	SAND	BRICK EARTH	MONTH-WISE TOTAL
April, 2023	2,81,33,753	19,82,463	0	3,01,16,216
May, 2023	77,77,837	11,49,595	0	89,27,432
June, 2023	90,09,540	3,42,870	0	93,52,410
July, 2023	42,62,769	2,94,060	0	45,56,829
August, 2023	57,85,641	2,11,090	0	59,96,731
September, 2023	1,04,03,090	4,29,890	0	1,08,32,980

October, 2023	40,20,256	2,56,410	0	42,76,666
November, 2023	29,65,800	3,43,000	0	33,08,800
December, 2023	14,91,574	4,49,010	0	19,40,584
January, 2024	83,11,487	0	0	83,11,487
February, 2024	1,33,76,803	3,77,620	0	1,17,54,423
March, 2024	1,07,73,215	24,21,400	0	1,31,94,615
Total	10,43,11,765	82,57,408	0	11,25,69,173

8. Projects undertaken by the Directorate

a. NEC - "Application of Information Technology in monitoring the minor minerals exploitation and Resource Mapping" amounting to Rs. 469.0 lakhs.

Sl. No.	Name of work and location	Total Cost (in Rs.)	Work Agency	Status
1.	Development of Web Application	94,40,000.00	Lailen Consultancy Pvt. Ltd.	Bill amount of Rs. 51,92,000.00 released
2.	Supply of Hardware	85,49,100.00	Lailen Consultancy Pvt. Ltd.	Bill amount of Rs. 34,19,640.00 released.
3.	Construction of 6 Nos. of RCC Check Gates at Tuivamit, Zemabawk, Kolasib, Serchhip, Champhai and Tuipui D	77,80,784.64	Modern Construction & Consulting Services	Tender process completed and approval given. Work Order issued. 17% work at Tuivamit completed.
4.	Resource Mapping	1,02,42,900.00		Field Mapping initiated.

b. NMET - "Procurement of machinery/laboratory equipments/instruments etc. aimed at enhancing the exploration activities" amounting to Rs. 452.31 lakhs.

The Directorate has received two payments amounting to Rs. 2,02,12,400/-, out of which Rs. 61,95,000/- has been spent on procurement of two items viz. Trimble DA2 DGPS and ESRI ArcGIS. The 2nd Phase of procurement will commence as soon as Approval is obtained from the Government.

D. GEOTECHNICAL INVESTIGATION & LANDSLIDE ENGINEERING

1. LANDSLIDE

During 2023 – 2024, the Directorate conducted Landslide Investigation at 18 locations mentioned below.

Locality	Location Description	Date of Occurrence	Date of Investigation
Tuidam	23°53'55"N, 92°22'41"E 566 m NH-108 bypass road		05.04.2023 – 06.04.2023
Bawngkawn Hmar	23°45'00"N, 92°44'06"E 1030 m Near Divine College	23.04.2023	24.04.2023
Dawrpui Vengthar	23°44'05"N, 92°42'53"E 1043 m Pi Rohlupuii's house site	09.06.2023	10.06.2023
Republic Veng	23°43'00"N, 92°43'16" E 1022 m Pu Lalnunmawia's house site	09.06.2023	10.06.2023
Bawngkawn East		09.07.2023	10.07.2023
Hlimen	23°40'20"N, 92°42'41"E 1060 m Road leading to Hlimen Vengthar Church	24.07.2023	25.07.2023
Ramhlun Venglai	23°44'41"N, 92°43'21" E 1085 m Near Dr. Manghaka's house	04.07.2023	05.07.2023
Ramthar North	23°44'23"N, 92°43'38"E 902 m	04.07.2023	05.07.2023
Bawngkawn East	23°45'00"N, 92°44'08"E Near PC Lalvuana's house	04.07.2023	10.07.2023
Vaivakawn	23°44'28"N, 92°42'27"E 919 m Below Pu Lalramthanga Sailo's house	19.07.2023	20.07.2023
Bawngkawn Hmar Veng	23°45'14"N, 92°43'59"E 1114 m Upa Vanlalmana's house	26.07.2023	27.07.2023
Suangpuilawn		01.08.2023	02.08.2023
Chanmari	23°44'27"N, 93°43'16"E 1063 m Chanmari Road Viewing Point	07.08.2023	07.08.2023
Zonuam	23°44'03"N, 92°42'04"E Pu Lalchuangliana's house site	10.08.2023	10.08.2023
Zonuam	23°44'03"N, 92°42'04"E Pu Lalchuangliana's house site	10.08.2023	29.08.2023

Zotlang, Lunglei	22°54'48"N, 92°45'16"E	06.08.2023	06.09.2023
Electric Veng & Lawngtlai-III, Lawngtlai	22°32'08"N, 92°53'34"E	03.08.2023	05.09.2023
Zemabawk Bethel Veng	23°43'49"N, 92°44'60"E 940 m Below RIPANS	13.09.2023	13.09.2023

2. GEOTECHNICAL INVESTIGATION

During 2023 – 2024, Site-specific Geotechnical Investigations were carried out in 33 locations mentioned below.

Location	Cause	Date of Investigation
Chawnpui Veng	Land crack	13.04.2023
Hunthar	Establishment of Car Wash	17.04.2023
Lungsen	Land fissure	27.04.2023
Zuangtui	Structural stability of Govt. Primary & Middle Schools	04.05.2023
Vaivakawn Traffic Point – Hunthar Junction	Laying of water pipeline/water treatment plant for 37MLD	17.05.2023
Republic Veng	Land crack & soil movement	17.05.2023
Zobawk South	Landslide Verification	13-17.06.2023
Zuangtui	Land subsidence of Govt. Primary & Middle Schools	21.06.2023
Aizawl Venglai	Vulnerable area	22.06.2023
Chanmari	Vulnerable area	22.06.2023
Nursery Veng	Landslide hazard	28.06.2023
Bethlehem Veng & Saron Veng	Hazardous area	05.07.2023
Dinthar	Landslide hazard	05.07.2023
Vaivakawn	New crack	11.07.2023
Ngaizel	Hazardous area	01.08.2023
Zuangtui	Construction of temporary building of Govt. Primary & Middle Schools	03.08.2023
Muanna Veng	Hazardous area	04.08.2023
Tlangnuam West Presbyterian Church	Collapsed retaining wall	05.09.2023
Tuikual Presbyterian Church	Construction of retaining wall	20.09.2023
Zemabawk	Regarding land loss and crisis in widening of NH-54	6.10.2023
BCM Vaivakawn	Inspection	10.10.2023
UPC NEI Church, Tuikual North	Inspection	14.11.2023

Republic Veng Field	Hazard of Collapse retaining wall	30.11.2023
Pu T. Zadingliana's proposed Petrol Pump, Serchhip	Inspection	10.01.2024
Tlangnuam Vengthar	Vulnerable area	16.01.2024
Raj Bhavan	Land subsidence	02.02.2024
Edenthlar	Construction of Edenthlar Playground	21.02.2024
Bawngkawn - Thuampui road	Hazardous area	21.02.2024
Kulikawn Phan Veng	Hazardous area	24.02.2024
Bawngkawn - Durtlang road	Excavation of land for Petrol Pump	01.03.2024
Ramhlun South	Rockfall hazard	19.03.2024
Bawngkawn - Durtlang road	Excavation of land for Petrol Pump and two residential building	22.03.2024

3. GEOTECHNICAL INVESTIGATION OF FOUNDATION

- a. **Christian College building site, Tanhril** - Two (2) boreholes of 15m depth each.
- b. **Zuangtui Vengthar site** - Three (3) boreholes of 15m depth each.
- c. **Presbyterian Church building site, Sihphir Venglai** - Three (3) boreholes of 15m depth each.
- d. **Falkland Veng** - Three (3) boreholes of 15m depth each.
- e. **Zohnuai road, Vaivakawn** - Three (3) boreholes of 15m depth each.
- f. **UPC(Mizoram) Headquarters site, Zonuam** - Two (2) boreholes of 15m depth each.
- g. **Mizoram State Sports Council Multipurpose Indoor Hall site, Durtlang North** - Three (3) boreholes of 15m depth each.
- h. **Pi C. Lalrampari Petrol Pump site, Rangvamual** - Two (2) boreholes of 15m depth each.

4. LANDSLIDE SUSCEPTIBILITY MAPPING

Landslide susceptibility mapping was conducted for road section between Tuirini & Kepran on 18.04.2023 - 24.08.2023.

E. LABORATORY

During 2023 - 2024, 1,463 different samples were analyzed by the department.

Sl. No.	Type of Test	No. of Test
1.	Rock/Aggregate/Soil (SDSM & Departmental)	638
2.	SBC	442
3.	Gemstone	7

4.	Core Sample (Project)	360
5.	Soil Sample (Project)	16
Total		1,463

F. Petroleum Exploration

Revenue Receipt from Petroleum Exploration License Fees (in Rs.):

OIL	Total
MZ-ONN-2004/1	
1,24,99,890	1,24,99,890