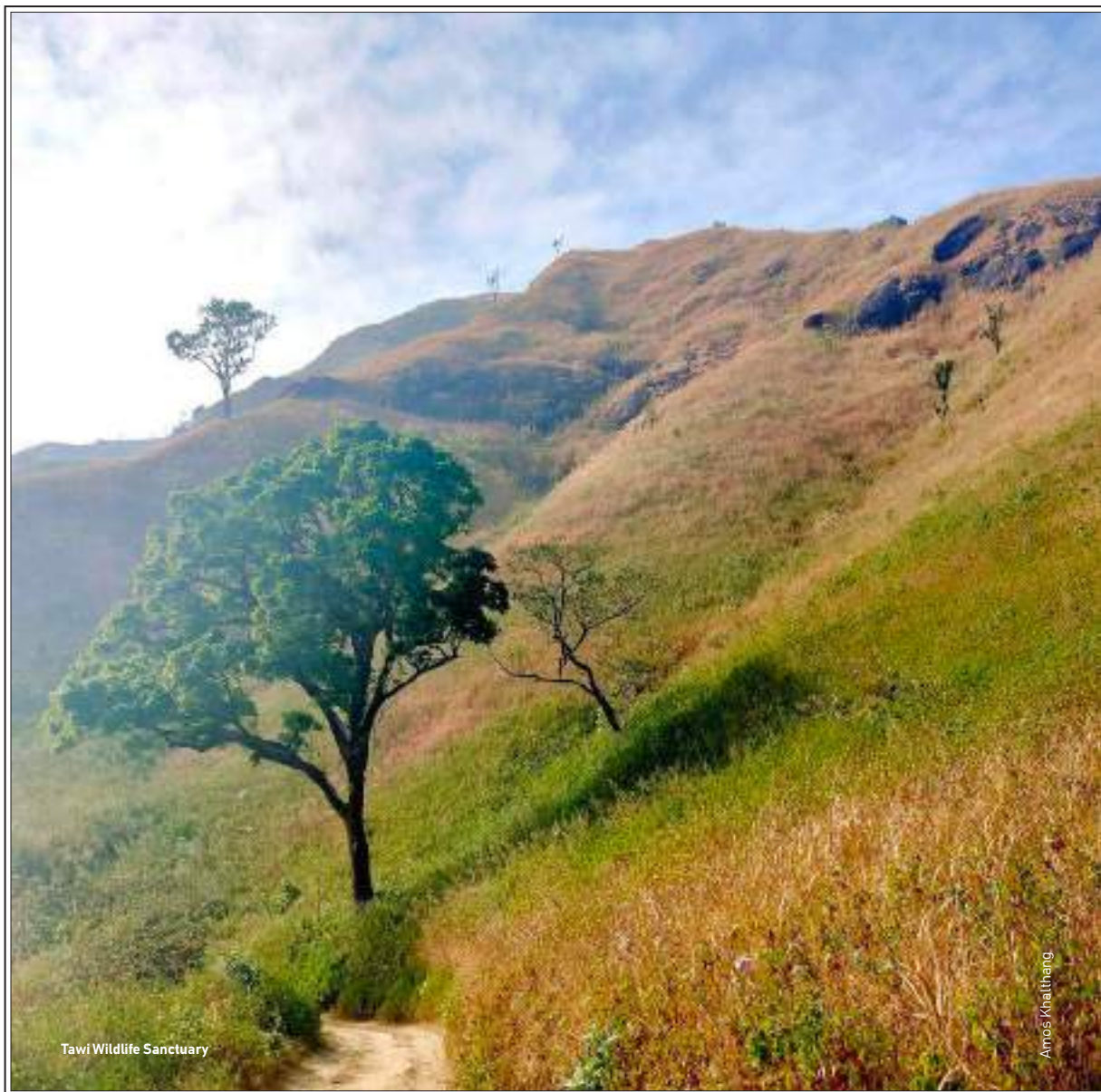


ANNUAL ADMINISTRATIVE REPORT 2023-2024



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Shri Lalthansanga
Hon'ble Minister
Environment, Forests & Climate Change
Department, Mizoram

Message

The mandate of the state Environment, Forests & Climate Change Department is to conserve and sustainably manage the state's natural wealth through the implementation of various central and state conservation programmes. The EF&CC Department has been managing its forests and wildlife with utmost care, which ultimately led Mizoram state to become one of the greenest states in India.

I am happy that the Environment, Forests & Climate Change Department, Govt. of Mizoram has brought out its Annual Administrative Report 2023-2024 highlighting the achievements and performance of the department and I congratulate everyone who has made effort and meaningful inputs for the publication of this Report. This will serve as a very useful official record and reference for all officers and staff of the department as well as personnel from other sectors.

Lalthansanga



Shri Ashok Kumar Biswal, IFS
Principal Chief Conservator of Forests
Environment Forest & Climate Change
Department, Mizoram

Preface

I am extremely happy to learn that Forest Extension Division is bringing out Annual Administrative Report for the year 2023-24. Needless to say, with the growing pressure encompassing the information and data of environmental of today we have equip with this valuable report.

The effort of Divisional Forest Officer and staff of Forest Extension Division in compiling all these data and information and putting it in a book form is truly a welcome addition.

I appreciate this effort wholeheartedly and hope it will be of much help to all the officers and staffs, scholars and public in future.

Ashok Kumar Biswal



Shri H. Lalengmawia, IAS
Commissioner and Secretary
Environment, Forests & Climate Change
Department, Mizoram

Foreword

I am happy to learn that the Environment, Forests & Climate Change Department, Govt of Mizoram has brought out once again its Annual Administrative Report and I congratulate everyone who has made efforts and meaningful inputs for publishing Annual Administrative Report for the year 2023-24.

The prime mandate of the state Environment, Forests & Climate Change Department is to conserve, protect and sustainably manage the natural wealth of the State such as forest and wildlife, biodiversity, NTFPs and other resources through the implementation of various central & State conservation programmes with active participation of locals and civil societies. The effective implementation of Central and State funded conservation and management schemes have led the Mizoram State to become one of the greenest states with good wildlife population amongst Indian states. The compilation of physical and financial achievements made by the department under such conservation schemes is immensely appreciated as it forms a good database for the department.

I wish all the best to the publication team of the department for their further endeavour and I am hopeful that the Annual Administrative Report 2023-24 will be a very useful record and reference not only for forestry personnel but for others as well.



H. Lalengmawia



Smt. Vanlalnunpuii Hmar, MFS
Divisional Forest Officer
Forest Extension Division
Government of Mizoram

Acknowledgement

It is a great privilege for me to once again publish the Annual Administrative Report of Environment, Forests & Climate Change Department for the financial year 2023-2024.

Publication of such Report in book form requires a lot of work like data collection/confirmation, data entry and arrangement, layout designing etc. I am happy to state that senior officers of the department and my subordinate staff are all very helpful and supportive in making this Report come to existence. I am very grateful to all who contributed in making the publication of this Report a success.

Further, it is my sincere wish that the Annual Administrative Report 2023-2024 may serve as a useful official record and reference for everyone working under forest fraternity.

I wish this book may be a blessing to all the readers.

Vanlalnunpuii Hmar

Abbreviation

ACF	- Assistant Conservator of Forest	MPCB	- Mizoram Pollution Control Board
AMC	- Aizawl Municipal Council	MR	- Muster Roll
ANR	- Aided Natural Regeneration	MZU	- Mizoram University
APCCF	- Additional Principal Chief Conservator of Forests	NABM	- National Forestry and Bamboo Mission
APO	- Annual Plan of Operation	NAMP	- National Air Quality Monitoring Programme
AR	- Artificial Regeneration	NAP	- National Afforestation Programme
ARCBR	- Advanced Research Centre for Bamboo and Rattan	NCBI	- National Centre for Biotechnology Information
BMC	- Biodiversity Management Committee	NEC	- North Eastern Council
CA	- Compensatory Afforestation	NEDP	- New Economic Development Policy
CADC	- Chakma Autonomous District Council	NGT	- National Green Tribunal
CAMPA	- Compensatory Afforestation Fund Management and Planning Authority	NH	- National Highway
CCF	- Chief Conservator of Forests	NLUP	- New Land Use Policy
CF	- Conservator of Forests	NMPB	- National Medicinal Plants Board
CPCB	- Central Pollution Control Board	NP	- National Park
CSS	- Centrally Sponsored Scheme	NPCA	- National Plan for Conservation of Aquatic Ecosystem
DCF	- Deputy Conservator of Forest	NTFP	- Non Timber Forest Produce
DFO	- Divisional Forest Officer	NWMP	- National Water Monitoring Programme
DTO	- Departmental Timber Operation	OF	- Open Forest
EDC	- Eco-Development Committee	PA	- Protected Area
EF&CC	- Environment, Forests & Climate Change	PBR	- Peoples Biodiversity Register
EIA	- Environment Impact Assessment	PCCF	- Principal Chief Conservator of Forests
ENVIS	- Environmental Information System	RF	- Reserved Forest
FDA	- Forest Development Agency	RRF	- Riverine Reserved Forest
FG	- Forest Guard	S/T	- Sawn Timber
Fr	- Forester	SAPCC	- State Action Plan on Climate Change
FSI	- Forest Survey of India	SBWL	- State Board for Wildlife
FTS	- Forest Training School	SEAC	- State Expert Appraisal Committee
GIM	- Green India Mission	SEIAA	- State Environment Impact Assessment Authority
GIS	- Geographical Information System	SFDA	- State Forest Development Agency
HA	- Hectare	SLEC	- State Level Expert Committee
IDWH	- Integrated Development Wildlife Habitat	SWM	- Solid Waste Management
IFMS	- Integrated Forest Management Scheme	TSG	- Technical Support Group
ILRF	- Innerline Reserved Forest	UNDP	- United Nations Development Programme
ISFR	- Indian State of Forest Report	VC	- Village Council
JICA	- Japan International Cooperation Agency	VDF	- Very Dense Forest
LADC	- Lai Autonomous District Council	WLS	- Wildlife Sanctuary
MADC	- Mara Autonomous District Council	WP	- Working Plan
MDF	- Moderately Dense Forest	WPO	- Working Plan Officer
MFP	- Minor Forest Produce	WS	- Working Scheme
MIRSAC	- Mizoram Remote Sensing Application Centre	YMA	- Young Mizo Association
MPCA	- Medicinal Plants Conservation Area		

Content

CHAPTER 1

BACKGROUND INFORMATION

1.1 Some facts about Mizoram	1
1.2 State Insignia of Mizoram	3
1.3 Circle-Wise No. of Divisions, Ranges & Beats	3

CHAPTER 2

ADMINISTRATIVE ORGANIZATION

2.1 Genesis of Environment, Forests & Climate Change Department in Mizoram	5
2.2 Organization chart of Environment, Forests & Climate Change Department	7
2.3 Head of Offices under EF&CC Department Mizoram	8
2.4 Number & list of Officers and staff getting regularized/recruited during 2023 - 2024	8
2.5 Number and list of officers and staff retired during 2023-2024	9
2.6 Number and list of officers and staff promoted during 2023-2024	10
2.7 Number and list of officers and staff expired during 2023-2024	11
2.8 Post/Staff position of various offices under EF&CC Department (2023-24)	11
2.9 Post/Staff position of various offices under EF&CC Department (2023-24)	13
2.9.1 Name of Estt/Office : Principal Chief Conservator of Forests (PCCF)	13
2.9.2 Name of Estt/Office : Conservator of Forests (Eastern Circle)	14
2.9.3 Name of Office/Establishment : Conservator of Forests (Central Circle)	14
2.9.4 Name of Office/Establishment : Conservator of Forests (Southern Circle)	15
2.9.5 Name of Office/Establishment : Conservator of Forests (Northern Circle)	15
2.9.6 Name of Office/Establishment : Aizawl Forest Division	16
2.9.7 Wildlife Division	16
2.9.8 Name of Office/Establishment : Lunglei Forest Division	17
2.9.9 Name of Office/Establishment : Kolasib Forest Division	18
2.9.10 Name of Office/Establishment : Champhai Forest Division	18
2.9.11 Name of Office/Establishment : Mamit Forest Division	19
2.9.12 Name of Office/Establishment : Tlabung Forest Division	20
2.9.13 Name of Office/Establishment : Kawrthah Forest Division	20
2.9.14 Name of Office/Establishment : N. Vanlaiphai Forest Division	21
2.9.15 Name of Office/Establishment : Darlawn Forest Division	21
2.9.16 Name of Office/Establishment : Thenzawl Forest Division	22
2.9.17 Name of Office/Establishment : Forest Protection Division	22
2.9.18 Name of Office/Establishment : Forest Extension Division	23
2.9.19 Name of Office/Establishment : Forest Training School	23
2.9.20 Name of Office/Establishment : Working Plan (North) Division	24
2.9.21 Name of Office/Establishment : Working Plan (South) Division	25
2.9.22 Name of Office/Establishment : Chief Wildlife Warden	25
2.9.23 Name of Office/Establishment : Khawzawl Wildlife Division	26
2.9.25 Name of Office/Establishment : Dampa Tiger Reserve	26

CHAPTER 3

FOREST LAND, FOREST COVER AND VEGETATION

3.1	FOREST RESOURCES OF MIZORAM	29
3.2	FOREST COVER OF MIZORAM - AS PER ISFR 2021	29
3.3	LAND PATTERN	30
3.4	DIVISION WISE FOREST COVER IN MIZORAM	31
3.5	FOREST COVER IN MUNICIPAL AREAS OF MIZORAM	31
3.6	FOREST COVER INSIDE AND OUTSIDE RECORDED FOREST AREA (OR GREEN WASH)	32
3.6.1	Forest Cover Inside and Outside Recorded Forest Area (or Green Wash) in Mizoram	32
3.6.2	Forest Cover Change Matrix Inside RFA/GW for Mizoram between 2021 Raster based and 2023 Assessments	32
3.6.3	Forest Cover Change Matrix Inside RFA/GW for Mizoram between 2021 Raster based and 2023 Assessments	32
3.6.4	Altitude-wise Forest Cover in Mizoram	33
3.6.5	Forest Cover in Different Slope Classes in Mizoram	33
3.7	Forest Types	34
3.7.1	Area statistics of the Forest Types found in Mizoram	34
3.7.2	Forest Areas	34
3.7.3	District-wise Number of Forest Fire Detected	35
3.7.4	District-wise Number of Forest Fire Detected	35
3.8.	Results Derived from NFI for Mizoram	36
3.8.1.	Number of Trees and their Volume for Top 5 Species in RFA	36
3.8.2	Number of Trees and their Volume for Top 5 Species in Rural Area	36
3.8.3.	Number of Trees and their Volume for Top 5 Species in Urban Area	36
3.8.4.	Major NTFP Species in Mizoram	36
3.8.5.	Major Invasive Species in the State Inside the RFA in Mizoram	37

CHAPTER-4

CONSERVATION AND AFFORESTATION PROGRAMMES

4.1	CSS: NATIONAL MISSION FOR GREEN INDIA (GIM)	39
4.1.1	Fund Utilized during 2023-24	39
4.1.2	GIM Physical and Financial Achievement during 2023 - 2024	39
4.1.3	Achieved activities during 2023-24	41
4.2	PHYSICAL AND FINANCIAL ACHIEVEMENT UNDER GIM IN RESPECT OF MIZORAM FROM 2016-2024)	42

CHAPTER-5

WILDLIFE CONSERVATION

5.1	Background information of Wildlife Wing IN MIZORAM	45
5.1.1.	Wildlife Organization Chart	46
5.2	Protected Areas	46
5.2.1	List of Protected Areas:	46
5.2.2	Detailed payment of compensation claims during 2023-2024	47
5.3	Updated report on Committees for Wildlife and Bio-Diversity Conservation (State Board for Wildlife. BMCs. EDCs etc.	47

5.3.1.	National Wildlife Week, 2023	47
5.3.2.	Annual Report on Biodiversity Conservation	48
5.3.3.	The functions of the State Biodiversity Board shall be to	48
5.4.	Updated report of EDCs – No activities /updated report of EDCs during the report period.	49
5.5	Territorial Forest Division Map of Mizoram (indicating protected areas)	50

Chapter-6

STATES'S PROGRAMME FOR ENVIRONMENT CONSERVATION

6.1	Observance of Green Mizoram Programme	53
6.2	Observance of Fire Prevention Programme	54
6.2.1	District Level Awardees 2023-2024 for Fire Prevention, Mizoram	55

Chapter-7

Aizawl Zoological & DEER ParkS

7.1	History of Aizawl Zoological Park	57
7.1.1	Aizawl Zoological Park	58
7.1.2	Vision	58
7.1.3	Mission	58
7.1.4	Objectives	58
7.2	ABOUT US : Basic Information about the Zoo	59
7.3	Capacity Building of Zoo Personal 2023 - 2024 :	61
7.4	Zoo Advisory Committee	62
7.5	Health Advisory Committee	62
7.6	Statement of Expenditure & Income of the Zoo during 2023-2024	62
7.6.1	Zoo expenditure during the Year 2023 - 2024	62
7.6.2	Zoo Entry and Parking Fee income in the year 2023 - 2024	63
7.7.	Entry Fees and other Charges	63
7.8.	Zoo Visiting Timing	64

Chapter-8

Mizoram Pollution Control board

8.1	INTRODUCTION	65
8.1.1	The functions of the MPCB	65
8.2	Organizational Chart	67
8.3.	Constitution of the Board	67
8.4.	Monitoring Networ for Air & Water quality	68
8.4.1.	National Air Monitoring Programme: (NAMP)	69
8.4.2	List of NAMP Stations	69
8.4.3.	Trend Status of Ambient Air Quality in Mizoram (Residential & Commercial Locations)	70
8.4.4.	Table: Monthly Average of CAAQMS	71
8.5	National Water Quality Monitoring Programme (NWMP)	72
8.5.1.	Table : Average Water Quality Data 2023-2024	73
8.5.2.	Noise Monitoring	79
8.6.	Industrial Pollution Control & Consent Management	80
8.6.1.	Industrial Pollution Control	80

8.6.2.	Consent Management	80
8.6.3.	Table : Status of actions taken/achievements on IPC during 2023-24	81
8.7.	Implementation of Waste Management rule framed under the Environment Protection Act, 1986	82
8.7.1.	Environment Protect Act,1986:	82
8.7.2.	Implementation of Waste Management Rule	82
8.7.3.	Vehicular Emission Testing under the Central Motor Vehicles Rules	83
8.8.	MoEF&CC's sponsored Schemes	84
8.8.1.	The Environmental Information, Awareness, Capacity Building and Livelihood Proramme (EIACP)	84
8.8.2.	Publication	85
8.9	Awareness Related Activities	87
8.9.1	Cleanliness Drives	87
8.9.2.	River Front Clean-up Drives	87
8.9.3	Observance of Environmental Related Days	88
8.9.4	House to House Environmental Awareness Campaigns	88
8.10.	Skill Development Activities	88
8.11.	Mission LiFE Activities	89
8.11.1	North-East Yatra on Mission LiFE	89
8.12.	Environment Education Programme (EEP)	90
8.12.1.	Nature Camps	90
8.12.2.	Observance of Environmental related days	91
8.13.	Workshop, Exhibition & Hands on Training	91
8.13.1.	District Level Waste to Art/Craft Exhibition cum Competition	91

Chapter-9

ICFRE- Bamboo and Rattan Centre

9.1	Background	97
9.2	Mandate of the Centre	98
9.3	Land and Building	98
9.3.1	Land	98
9.2.2	Buidling	99
9.2.3	Residential Quarters	99
9.2.4	Farmers' Hostel	99
9.4.	Research Facilities	100
9.5	Staff Strength	101
9.6	Physical & Financial Achievements during 2022-23	101
9.6.1	The list of training programme conducted during 2022-23 is as follows	101
9.6.2	The budget details during 2022-23 are as follows	102
9.6.3	The list of training programme conducted during 2023-24 is as follows	102
9.6.4	The budget details during 2023-24 are as follows	103
9.7.	Salient Achievements	108

Chapter-10

Chakma Autonomous District Council

10.1	Name of Estt / Office: Chakma Autonomous District Council	111
10.2	Revenue Receipts from Broomstick during 2023-2024	111

10.3	List of approved Working Plan in Mizoram till today	111
10.4	Spot verification of fire incidence, 2023-2024 (FSI), District wise	112
10.5	Abstract of Fire Incidence for the year 2023-24	112

Chapter-11

CHHIMTUIPUI WILDLIFE DIVISION

11.1	Post/Staff Position (2023-2024)	115
11.2	CSS: IDWH 2023 - 2024 for development of Ngengpui Wildlife Sanctuary	115
11.3	CSS: IDWH 2023 - 2024 for Development of Phawngpui National Park	116
11.4	Details Reports on Wildlife Compensation Claim During 2023-2024	117
11.5	Abstract of Fire Incidence for the year 2023-24	117
11.6	Spot verification of fire incidence, 2023-2024 (FSI), District wise	117
11.7	Abstract of forest offence cases during 2023-24	117
11.8	Abstract wildlife offence cases during 2023-24	117

Chapter-12

NON-TIMBER FOREST PRODUCE (NTFP)

12.1	Bamboo Resources of Mizoram	119
12.1.1	List of bamboos found in Mizoram	119
12.1.2	Extent of Bamboo Bearing Areas	120
12.1.3	District wise bamboo distribution/area of Mizoram	121
12.1.4	Bamboo Growing Stock	121
12.1.5	Important figures on Bamboo of Mizoram as per ISFR 2019	122
12.1.6	Flowering of Bamboos in Mizoram	122
12.1.7	The Bamboo Policy	122
12.1.8	Revenue receipts from bamboo during 2019-2020 is as under	124
12.2	Orchid Resources in Mizoram	124
12.2.1	Threat to Orchids	125
12.2.2	Conservation Efforts	125
12.2.3	Works taken up during 2019-2020 by Orchidology section	125
12.2.4	Works taken up during 2018-2019 by Orchidology section	126
12.3	Medicinal Plants of Mizoram	126
12.3.1	Resource Augmentation	126
12.3.2	Setting up of Medicinal Plants Conservation Areas (MPCAs)	127
12.3.3	Achievement under NMPB funded project during 2019-2020	127
12.4	Broomstick	127
12.4.1	Revenue receipts from broomstick during 2023- 2024	128
12.5	Anchiri	128
12.6	Cane (Rattan)	129
12.6.1	Callamus species growing in Mizoram	129

Chapter-13

WORKING PLAN AND MANAGEMENT PLAN

13.1.	Achievements on working Plan in Mizoram	133
13.2.	Alteration in Forest area during 2023- 2024	133
13.3.	Non-notified Village Forests as on 31.03.2024	134

13.4.	Community Forests/YMA Reserves as on 31.03.2024	135
13.5.	Private Forests/Plantations – 2023 – 2024	136
13.6.	Feeling Permit Issued in Private Plantation raised in Non-Forest Land during 2023-2024	136
13.7.	Building Constructed/Maintained during 2023 – 2024	136
13.8.	Other Assets (Fencing, Retaining wall, Water storage structure, etc) Created/Maintained during 2023 – 2024	137
13.9.	Summary Revenue Collected during 2023-2024	137
13.10.	Summary of Expenditure incurred during 2023-2024	138
13.11.	CAMPA Activities 2023 – 2024	138
13.12.	Fire Incidence during 2023-2024	139
13.13.	Forest Offence cases during 2023-2024	139
13.14.	Nursery register showing species wise quantity of seedlings raised during 2023-2024	139
13.15.	Forest Rest House	142

Chapter - 14 REVENUE RECEIPTS

14.1	Statement showing Division-Wise Revenue Receipts during 2023-2024	
	Name of Circle : Northern Circle	143
14.1.1.	Name of Divisions - Aizawl, Champhai and Thenzawl	143
14.1.2.	Name of Divisions - Aizawl, Champhai and Thenzawl	144
14.1.3.	Name of Divisions - Aizawl, Champhai and Thenzawl	145
14.1.4.	Name of Divisions - Lunglei, Tlabung, Thenzawl and N. Vanlaiphai	145
14.1.5.	Name of Divisions - Lunglei, Tlabung, Thenzawl and N. Vanlaiphai	146
14.1.6.	Name of Divisions - Lunglei, Tlabung, Thenzawl and N. Vanlaiphai	147
14.1.7.	Name of Divisions - Kolasib, Mamit, Kawrthah and Darlawn	147
14.1.8.	Name of Divisions - Kolasib, Mamit, Kawrthah and Darlawn	148
14.1.9.	Name of Divisions - Kolasib, Mamit, Kawrthah and Darlawn	149
14.1.10.	Name of Divisions - Aizawl, Khawzawl, Chhimtuipui and Dampa Tiger Reserve	149
14.1.11.	Name of Divisions - Aizawl, Khawzawl, Chhimtuipui and Dampa Tiger Reserve	150
14.1.12.	Name of Divisions - Aizawl, Khawzawl, Chhimtuipui and Dampa Tiger Reserve	151
14.1.13.	Name of Divisions - Protection, Extension, WPO 'N' and WPO 'S'	151
14.1.14.	Name of Divisions - Protection, Extension, WPO 'N' and WPO 'S'	152
14.1.15.	Name of Divisions - Protection, Extension, WPO 'N' and WPO 'S'	153
14.2.	Statement showing Revenue Receipt during 2023-2024	153
14.3.	Total Revenue Receipt during 2023-2024(1st Quarter)	154
14.4.	Total Revenue Receipt during 2023-2024(2nd Quarter)	154
14.5.	Total Revenue Receipt during 2023-2024(3rd Quarter)	155
14.6.	Total Revenue Receipt during 2023-2024(4th Quarter)	155
14.7.	Fire Report from 1.3.2023 - 15.3.2023	156

Chapter - 15

FORESTRY TRAINING, EXTENSION & RESEARCH ACTIVITIES

15.1	Forestry Training	159
15.1.1	Introduction	159
15.1.2	Legal Status of FTS	159
15.1.3	Budget utilization of FTS	160
15.1.4	No. of two weeks Refresher Courses conducted during the last five years & types of Frontlines Staff trained	160
15.1.5	Progress achievement of Training activities	160
15.1.6	Progress achievement of Human Resource Development under TFC – 2023-2024	161
15.1.7	Progress of Audit inspection report as on March 2024	162
15.2	Number of Fire Incidence	162
15.3	Number of Crime cases	166
15.4	List of Buildings under FTS	163
15.5	List of Trainees sport facilities	164
15.6	List of FTS Vehicles	164
15.7	Problem & Constraint	164
15.8.	Suggestion	164
15.9	Security measures taken under FTS	165
15.10	Incumbency chart of Principal, Forest Training School, Aizawl from 1974 to till date	165
15.10.1	Superintendent	165
15.10.2	Principal	165

Chapter - 16

FORESTPROTECTION

16.1.	Summary of Revenue Collected during 2023-2024	171
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1 | BACKGROUND INFORMATION

1.1 | SOME FACTS ABOUT MIZORAM

Name of the State	: Mizoram
Name of the State Capital	: Aizawl
Geographical area	: 21,081 sq.km
No. of Districts	: 11
No. of Autonomous District Councils	: 3
No. of Sub-Divisions	: 23
No. of Rural Development Blocks	: 26
No. of villages (2011 Census)	: 830 (704 inhabited)
Population	
According to 2011 Census	: 10,97,206
Estimated Population in 2019	: 16,68,800
Density of population (per sq.km)	: 52
Literacy	: 91.33%
Sex ratio	: 976 female per 1000 male
Location	: 92° 15' – 93° 29' E Longitude 21° 58' – 24° 35' N Latitude
Livestock population (as per 19 th Live Stock Census)	: 0.31 million
Dimension	
North to South	: 277 km
East to West	: 121 km
Inter State Border	
Assam	: 123 km
Tripura	: 66 km
Manipur	: 95 km
International Border	
Myanmar	: 404 km
Bangladesh	: 318 km
Longest Rivers	
Tlawng	: 185.15 km
Tiau	: 159.39 km
Chhimtuipui	: 138.46 km

Highest Mountains	
Phawngpui (Blue Mountain)	: 2157 m
Lengteng	: 2141 m
Surtlang	: 1967 m
Height of District Headquarters	
Champhai	: 1678 m
Serchhip	: 1281 m
Saitual	: 1270 m
Saiha	: 1225 m
Khawzawl	: 1187 m
Aizawl	: 1132 m
Lunglei	: 1222 m
Mamit	: 901 m
Hnahthial	: 883 m
Lawngtlai	: 847 m
Kolasib	: 722 m
Height of Other Towns	
Khawhai	: 1591 m
East Lungdar	: 1464 m
Tuipang (L)	: 1433 m
Tuipang (V)	: 1350 m
Saitual	: 1270 m
Darlawn	: 1256 m
Khawzawl	: 1187 m
Ngopa	: 1127 m
Reiek	: 1070 m
Thingsulthiah	: 1051 m
West Phaileng	: 1009 m
Kawnpui	: 930 m
Hnahthial	: 883 m
Bunghmun	: 875 m
Lungsen	: 854 m
Thingdawl	: 745 m
Sairang	: 457 m
Lengpui	: 402 m
Vairengte	: 251 m
Chawngte	: 66 m
Bairabi	: 36 m
Zawlnuam	: 35 m
Tlabung	: 21 m
Average rainfall	: 200-250 cm per year
Temperature	: 11° to 21°C (Winter) and 20° to 31°C (Summer)

1.2 STATE INSIGNIA OF MIZORAM

State Tree : Herhse/Iron Tree (*Mesua ferrea*)

State Animal : Saza/Serotw (*Capricornis spp.*)

State Bird : Vavu/Mrs. Hume's Pheasant (*Syrmaticus humiae*)

State Flower : Senhri/Red Vanda (*Renanthera imschootiana*)

1.3 CIRCLE-WISE NO. OF DIVISIONS, RANGES & BEATS

Name of Circle	No. of Divisions	No. of Ranges
Northern Circle	3	19
Southern Circle	2	8
Eastern Circle	2	13
Wildlife Circle (CWLW)	4	11
Central Circle	3	20
R, T&M under CCF	5	-
Total	19	71



HERHSE
Iron-wood tree



SAZA
Red Serow



VAVU
Mrs. Hume's pheasant



SENHRI
Red Vanda



2 | ADMINISTRATIVE ORGANIZATION

2.1 GENESIS OF ENVIRONMENT, FORESTS & CLIMATE CHANGE DEPARTMENT IN MIZORAM

During the British regime, there was no planned management of forest except the declaration of the Lushai Hills as 'Excluded Area' and the constitution of 'Inner Line Reserve Forest' along the inter-district boundary of Cachar and Mizoram covering an area of 1317.9 sq.kms. vide the Assam Gazette dated 17.3.1877 issued under section 2 of the Bengal Frontier Regulation, 1873 (V of 1873). Another notification was issued in 1933 on the Inner Line of the Lushai Hills District. Beyond this line, there was no interference on the control of inhabitants except political influence. With enforcement of "Inner Line" regulation entry of outsiders into Lushai Hills without obtaining prior permission from the Deputy Commissioner was prohibited. This regulation certainly helped in the prevention of the hill tribes from exploitation by outsiders. The forest and other natural resources were also saved from exploitation and thus regarded as a remarkable landmark contribution by the British towards the protection and conservation of forests.

On 25th April, 1952 under the sixth schedule to the Constitution of India, the "Autonomous Mizo District Council" was inaugurated and management of all the unclassified forests, other than the Inner Line Reserved Forests was handed over to the District Council with the creation of a Forest Department. The Chieftainship was also abolished subsequently on 29th April, 1954.

When Mizoram became Union Territory in 1972, the State Forest Department was also established headed by Director of Forests as head of Department (The post of Director of Forests in the rank of Conservator of Forests was created vide No. PLN 15/72 'A' dt 21.07.1972 and MAP-27/Part/6 dt. 19.12.1972). Initially, the whole of Mizoram was divided into only two territorial Forest Divisions namely Aizawl Forest Division and Lunglei Forest Division which was created on 30.12.1972.

The head of the Department (Director of Forests) was then re-named as Chief Conservator of Forests with the creation of new post of Chief Conservator of Forests (CCF) vide No. 17-1/82-F. FE.II dt. 22.11.1983.

With the creation and opening of more territorial divisions in 1980's, all the divisions in Mizoram under the direct administration of Chief Conservator of Forests were grouped under two territorial Circles namely Northern Circle and Southern Circle by creation of a new post of Conservator Forest, Northern Circle and by re-designating the post of Director of Forests vide Notification No. A.11013/2/81-FST dt 13.7.1984. The Research & Development Circle was also created in 1987 vide Notification No. A.11013/1/87-FST dt 5.8.1987 to look after functional Divisions such as Extension Division, Working Plan Division, Forest Education and Research Institute (later re-named as Forest Training



School), Resources Survey Division and Forest Protection Division.

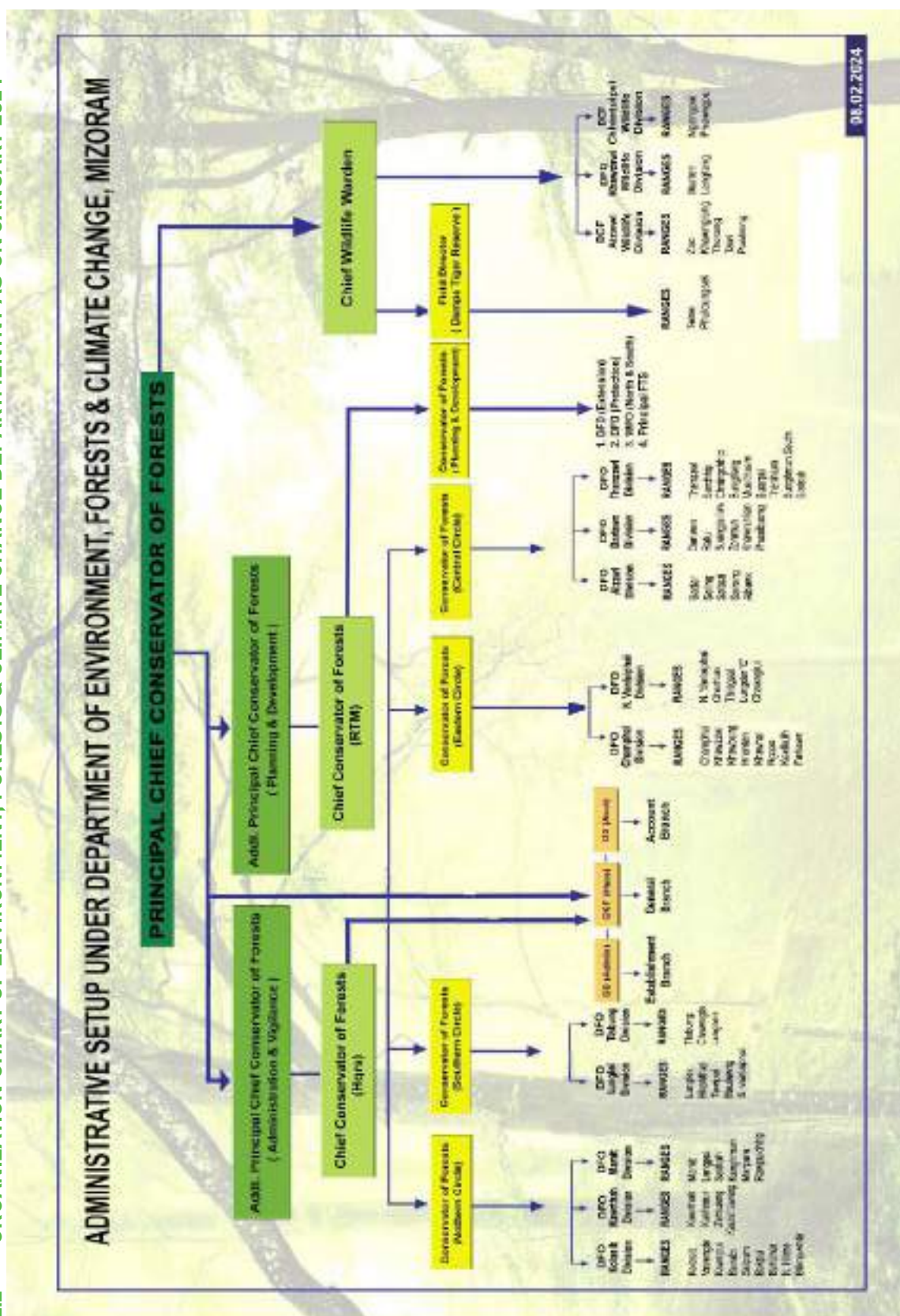
In 1987, the Forest Department of Mizoram was re-named as Environment & Forest Department vide No. 13015/183-FST dt 8.4.1987 and the head of the Department was upgraded from Chief Conservator of Forest (CCF) to Principal Chief Conservator of Forests (PCCF) with the creation of the post of Principal Chief Conservator of Forests vide No. A.22012/4/80-APT(A) dt 20.5.1988.

The post of Chief Wildlife Warden (CWLW) in the rank of Conservator of Forests was also created vide Notification No. A.11017/6/91-FST dt 16.6.1994. In the year 2002, the post of Conservator of Forests, Central Circle was also created vide No.A.11013/1/87-FST/Pt II dt 5.9.2002 by bifurcating the jurisdiction of Northern Circle into two Circles.

Three new posts viz., Chief Conservator of Forests (Planning & Development), Chief Conservator of Forests (Chief Wildlife Warden) and Conservator of Forests (Wildlife) & Field Director, Dampa Tiger Reserve were also created in 2009 vide Notification No. A.11013/1/87-FST/Pt II/B dt 18.5.2009. Thereafter, one post of Addition Principal Chief Conservator of Forests was also created vide No. A.45019/13/94-FST dt. 25.1.2010.

With inclusion of the subject, "Climate Change", the name of the Department "Environment & Forests Department" was then re-named as "Environment, Forests & Climate Change Department" vide Notification No.A.46013/2006-GAD/Loose dt 19.4.2016.

ENVIRONMENT, FORESTS & CLIMATE CHANGE DEPARTMENT, MIZORAM



2.3 HEAD OF OFFICES UNDER EF&CC DEPARTMENT MIZORAM

SN	Name of Office	Address
1	PCCF Office	Tuikhuahtlang Aizawl
2	CWLW Office	Tuikhuahtlang Aizawl
3	CF(Southern Circle) Office	Lunglei
4	CF(Northern Circle) Office	Kolasib
5	CF(Central Circle) Office	Tuikhuahtlang Aizawl
6	CF(Eastern Circle) Office	Champhai
7	DCF Office, Aizawl Wildlife Division	Khatla Aizawl
8	DFO Office, Aizawl Forest Division	Khatla Aizawl
9	DFO Office, Kolasib Forest Division	Kolasib
10	DFO Office, Lunglei Forest Division	Lunglei
11	DFO Office, Champhai Forest Division	Champhai
12	DFO Office, Mamit Forest Division	Mamit
13	DFO Office, Tlabung Forest Division	Tlabung
14	DFO Office, Kawrthah Forest Division	Kawrthah
15	DFO Office, N. Vanlaiphai Forest Division	N.Vanlaiphai
16	DCF Office, Chhimtuipui Wildlife Division	Lawngtlai
17	DFO Office, Darlawn Forest Division	Darlawn
18	DFO Office, Thenzawl Forest Division	Thenzawl
19	Field Director, Dampa Tiger Reserve	West Phaileng
20	DFO Office, Forest Protection Division	Khatla Aizawl
21	DFO Office, Forest Extension Division	Tuikhuahtlang Aizawl
22	Principal, Forest Training School	Bethlehem Vengthlang Aizawl
23	WPO(North) Office, Working Plan Division	Tuikhuahtlang Aizawl
24	WPO(South) Office, Working Plan Division	Lunglei
25	DCF Office, Khawzawl Wildlife Division	Khawzawl

2.4 NUMBER & LIST OFD OFFICERS AND STAFF GETTING REGULARIZED/RECRUITED DURING 2023 - 2024

S/N	Name of Officers & Staff	Designation	Date of regularized/ recruited
1	Adonai Lalmalsawma	U.D.C	01.02.2024
2	Lalthanpuia Hrahsel	U.D.C	01.02.2024
3	Lalmalsawma Ralte	U.D.C	01.02.2024
4	Lalliantluangi Tuallawt	U.D.C	01.02.2024
5	John Lalmuansanga	U.D.C	01.02.2024
6	C. Vanlalsawma	U.D.C	01.02.2024
7	Lalzawnchhuahi Fanai	U.D.C	01.02.2024
8	Ambrose Vanlalpeka	U.D.C	01.02.2024

9	Vanlalchhuangi	U.D.C	12.03.2024
10	Lalruatdika	U.D.C	12.03.2024
11	PB Lalrinawma	L.D.C	14.02.2024
12	F. Lalnunziri	L.D.C	14.02.2024
13	Amos Malsawmdawngkima	L.D.C	14.02.2024
14	Lalrintluanga	L.D.C	14.02.2024
15	Vanlalduhsaka	L.D.C	14.02.2024
16	Vanlalhruaizela	L.D.C	14.02.2024
17	K. Lalrinnungi	Chowkidar	28.12.2023

2.5 NUMBER AND LIST OF OFFICERS AND STAFF RETIRED DURING 2023-2024

S/N	Name of Officers & Staff	Designation	Date of Retirement
1	Lalremsiama	Forester	30-04-2023
2	Lalzirliana	Forester	30-04-2023
3	Lalrintluanga	Sweeper	30-04-2023
4	Lalchungnunga	Forester	31-05-2023
5	Lalrawna	Forester	31-05-2023
6	Laltlanliani	Peon	31-05-2023
7	Lalthazova	Forester	31-05-2023
8	C. Lalthankima	MFS	31-05-2023
9	ZD Lalramhluna	Driver	31-05-2023
10	Laltluanga	Dy. Ranger	30-06-2023
11	Lalkhumtira	Forest Guard	31-07-2023
12	Lalbiakthanga	Dy. Ranger	31-08-2023
13	R. Lalthantluanga	Dy. Ranger	31-08-2023
14	R. Zohmingliana	Dy. Ranger	31-08-2023
15	Lalronghaka	F/Constable	31-08-2023
16	Ramhluna	Chowkider	31-08-2023
17	Lalthlanga	Forest Ranger	31-08-2023
18	PC Lalbiakthuama	MFS	31-08-2023
19	F. Vanlalsawma	Dy. Ranger	30-09-2023
20	Sanghnuna	Dy. Ranger	31-10-2023
21	VL Sawma	Provisional Employee	31-10-2023
22	Deb Bahadur Sunar	IB Chowkider	31-10-2023
23	Vanlalbiaka	Dy. Ranger	31-10-2023
24	Sailova	Peon	30-11-2023
25	PC Malsawma	Forester	31-12-2023
26	VL Rawna	Chowkider	31-01-2024

27	Lahmachhuana	Forest Ranger	31-01-2024
28	K. Sapliani	Assistant	31-01-2024
29	Vanlalpeka	Forest Ranger	31-01-2024
30	K. Vanlalsela	Forester	29-02-2024
31	C. Zothanmawii	UDC	29-02-2024
32	K. Thangzami	Assistant	29-02-2024
33	R. Zotinkhuma	Driver	29-02-2024
34	PC Lalthantluanga	Forest Ranger	29-02-2024
35	C. Chalzama	Dy. Ranger	29-02-2024
36	Thantluanga Pautu	Dy. Ranger	29-02-2024
37	DC Lalthanzama	Assistant	29-02-2024
38	Lalthlangliani	IB Chowkider	29-02-2024
39	Rochungnunga	Cinema Operator	29-02-2024
40	C. Vanlalpeka	Forest Ranger	31-03-2024
41	Lalrammawii Sailo	IFS	31-03-2024
42	PC Vanlalnghaki	Chowkider	31-03-2024
43	Lalnunzira	IFS	31-03-2024
44	R. Lalrinpuui	Assistant	31-03-2024
45	T. Zakiauva	Dy. Ranger	31-03-2024
46	Laltanpuui Sailo	UDC	31-03-2024
47	B. Lalsiamliana	MFS	31-03-2024
48	R. Lalchhandami	UDC	31-03-2024
49	B. Vanlalnghaka	Dy. Ranger	31-03-2024

2.6 NUMBER AND LIST OF OFFICERS AND STAFF PROMOTED DURING 2023-2024

S/N	Name of Officers & Staff	Promoted to	Date of Promotion
1	F. Vanlalsawma	Forest Ranger	05.06.2023
2	Vanlalruata Zote	Forest Ranger	05.06.2023
3	Vanlalpeka	Forest Ranger	05.06.2023
4	Lalringliana	Forest Ranger	05.06.2023
5	Vanlalhluna	Forest Ranger	05.06.2023
6	PC. Lalchhuanawma	Forest Ranger	05.06.2023
7	C. Zomuana	Forest Ranger	05.06.2023
8	Lalsangpuia Pachuau	Forest Ranger	05.06.2023
9	P. Lalthansiamia	Forester	31.07.2023
10	Joseph Lalnunmawia	Forester	31.07.2023
11	PC Lalrothanga	Forester	31.07.2023
12	Vanlalruata Sailo	Forester	31.07.2023

13	Lalchungnunga	Forester	31.07.2023
14	C. Pazawna	Forester	31.07.2023
15	PL. Zawmliana	Forester	31.07.2023
16	Lalrintluanga	Forester	01.03.2024
17	Vanlaltluangi	Forest Guard	14.09.2023
18	PC Chuauhuni	Forest Guard	14.09.2023
19	Lalengruala	Flead Constable	07.08.2023

2.7 NUMBER AND LIST OF OFFICERS AND STAFF EXPIRED DURING 2023-2024

S/N	Name of Officers & Staff	Designation	Date of expired
1	B. Vanlalnghaka	Deputy Ranger	10.03.2024
2	C. Pazawna	Forester	02.09.2023
3	PC Lalrinliana	Peon	31.10.2023
4	R. Liana	Chowkidar	04.05.2023
5	K. Zarzoliana	Plantation Mali	15.05.2023

2.8 POST/STAFF POSITION OF VARIOUS OFFICES UNDER EF&CC DEPARTMENT (2023-24)

Sl. No.	Name of Post GROUP 'A'	Sanctioned Post	Filled	Vacant
1	PCCF	1	1	0
2	APCCF	2	1	1
3	CCF (RTM), (HQ), CWLW	3	2	1
4	CF (CC).(NC), (SC), (EC), (W/L)	5	4	1
5	DCF (IFS)	8	8	0
6	DCF (MFS)	11	3	8
7	Deputy Director (Admn)	1	1	0
8	ACF (IFS)	5	1	4
9	ACF (MFS)	28	13	15
10	Botanist	1		1
11	Orchidologist	1	0	1
12	DD (Accounts)	1	1	
13	Research Officer	1	1	
14	Superintendent	3	2	1
15	Vety Assistant Surgeon	2	1	1
16	Assistant Engineer	1	1	
17	Steno Grade-I	2	1	1
18	Audit & Accounts Officer	1	1	
	TOTAL	77	42	35

Sl. No.	Name of Post GROUP 'B'	Sanctioned Post	Filled	Vacant
19	Assistant	31	24	7
20	Junior Engineer	3	1	2
21	Inspector of Statistic	3	1	2
22	Computer Operator	1	1	
23	Asst. Audit & Accounts Officer	1	1	
24	Forest Ranger	78	20	58
25	Steno Grade-II	1	0	1
26	U.D.C.	85	40	45
27	Publicity Assistant	1	1	
28	Research Assistant	4	2	2
29	Steno Grade-III	7	1	6
30	Deputy Ranger	59	33	26
31	S.I.of Forests	. 1		1
32	Draftsman	11	1	10
33	Surveyor	22		22
	TOTAL	308	126	182

Sl. No.	Name of Post GROUP 'C'	Sanctioned Post	Filled	Vacant
34	Laboratory Assistant	1	1	
35	Vety Field Assistant	3	1	2
36	L.D.C.	66	35	31
37	Forester	219	94	125
38	Cinema Operator	7	1	6
39	P.T. Instructor	2	0	2
40	Forest Guard	417	86	331
41	Driver	31	17	14
42	Despatch Rider	1		1
43	Forest Head Constable	8	8	0
	TOTAL	755	243	512

Sl. No.	Name of Post GROUP 'D'	Sanctioned Post	Filled	Vacant
44	Forest Constable	40	3	37
45	Chowkider	28	24	4
46	I.B. Chowkider	8	7	1
47	Sweeper	8	5	3
48	Plantation Mali	15	1	14
49	Dak Runner	11	2	9

50	Boatman	6	2	4
51	Handyman	3	1	2
52	Animal Feeder	4	1	3
53	Conductor	1	0	1
54	Mahout	1		1
55	Chainman	12	4	8
56	Peon	60	46	14
	TOTAL	197	96	101
	GRAND TOTAL	1337	507	830

2.9 POST/STAFF POSITION OF VARIOUS OFFICES UNDER EF&CC DEPARTMENT (2023-24)

2.9.1 Name of Estt/Office : Principal Chief Conservator of Forests (PCCF)

Sl. No.	Name of Post	Sanctioned	Filled	Regular	M/R
1	PCCF	1	1	1	
2	APCCF	2	1	1	
3	CCF	2	1	1	
4	DCF(Hqrs)	1	1	1	
5	ACF(SFS)	3			
6	ACF(IFS)	5			
7	DD(Admn)	1	1	1	
8	DD(Acctts)	1	1	1	
9	Superintendent	2	2	2	
10	Steno-I	2	2	2	
11	A&AO	1	1	1	
12	Research Officer	1	1	1	
13	Assistant Enginner	1	1	1	
14	Assistant	8	8	8	
15	Junior Engineer	2	1	1	
16	A A&AO	1	1	1	
17	Steno-II	Nil	1	1	
18	Research Assistant	Nil	1	1	
19	Computer Operator	1	1	1	
20	Inspector of Statistics	3	1	1	
21	Forest Ranger	1			
22	UDC	18	12	10	2 (Contract)
23	Publicity Assistant	1			
24	Steno -III	2			
25	LDC	11	12	11	1 (M/R)

26	Cinema Operator	2	Nil	Nil	
27	Driver	5	7	7	
28	Forester	2	4	4	
29	Despatch Rider	1	Nil	Nil	
30	Forest Guard	2	4	4	
31	Handyman	1	Nil	Nil	1
32	Conductor	1	Nil	Nil	
33	Chowkider	8	6	4	2
34	Sweeper	3	2	1	1
35	Peon	19	14	14	
36	I.B. Chowkider	1			
37	Plantation Mali	Nil			1
39	Dak Runner	1	1	1	
	Total	117	89	83	8

2.9.2 Name of Estt/Office : Conservator of Forests (Eastern Circle)

Sl. No.	Name of Post	Sanctioned	Filled	Regular	M/R
1	Conservator of Forests	1	1	1	
2	Botanist	1			
3	Orchidologist	1			
4	ACF	1			
5	Assistant	2			
6	Steno - III	1			
7	UDC	3	1	1	
8	Research Assistant	4			
9	Surveyor	1			
10	LDC	2			
11	Driver	1			
12	Forest Guard				
13	Duftry	1			
14	Sweeper	1			
15	Chowkider	1			
16	Peon	2			
	Total	23	2	2	

2.9.3 Name of Estt/Office : Conservator of Forests (Central Circle)

Sl. No.	Name of Post	Sanctioned	Filled	Regular	M/R
1	Conservator of Forests	1	1	1	
2	ACF	1			

3	Assistant	1	1	1	
4	UDC	3	1	1	
5	LDC	3	2	2	
6	Driver	1			
7	Forester		1	1	
8	Peon	3	2	2	
	Total	13	8	8	

2.9.4 Name of Estt / Office: Conservator of Forests, (Southern Circle) Lunglei

Sl. No.	Name of Post	Sanctioned	Filled	Regular	M/R
1	Conservator of Forests	1	1	1	
2	ACF(MFS)	1	1	1	
3	Assistant	1	1	1	
4	Forest Ranger	1			
5	Junior Engineer	1			
6	UDC	3	1	1	
7	Deputy Ranger	1			
8	Steno - III	1	1	1	
9	Surveyor	2			
10	LDC	3			
11	Driver	1			
12	Dak Runner	1			
13	Chowkider	1	1	1	
14	Peon	2	3	3	
	Total	20	9	9	

2.9.5 Name of Estt / Office: Conservator of Forests (Northern Circle)

Sl. No	Name of Post	Sanc-tioned	Filled	Regular	M/R
1	Conservator of Forests	1			
2	ACF	1	1	1	
3	Steno - II	1			
4	Assistant	1			
5	UDC	3	1	1	
6	Surveyor	2			
7	LDC	2	2	2	
8	Driver	1			
9	Peon	2	2	2	
	Total	14	6	6	

2.9.6 Name of Estt / Office: Aizawl Forest Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF/DFO (IFS)	1	1	1	-
2	ACF	1	1	1	-
3	Assistant	1	1	1	-
4	Forest Ranger	6	2	2	-
5	UDC	4	2	2	-
6	Draftsman	1	-	-	-
7	Steno - III	1	-	-	-
8	Deputy Ranger	5	1	1	-
9	Surveyor	1	-	-	-
10	LDC	3	1	1	-
11	Forester	20	15	15	-
12	Driver	2	2	2	-
13	Forest Guard	35	3	3	-
14	Chowkider	2	4	1	3
15	I.B. Chowkider	1	1	1	-
16	Sweeper	1	1	1	-
17	Plantation Mali	1	-	-	3
18	Handyman	1	-	-	-
19	Dak Runner	1	-	-	-
20	Boatman	1	1	1	-
21	Peon	2	1	1	-
	TOTAL	91	37	34	6

2.9.7 Name of Estt / Office: Wildlife Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF (IFS)	1	1	1	
2	ACF	2	1	1	
3	Vety Assistant Surgeon	2	1	1	
4	Forest Ranger	4	2	2	
5	Assistant	1	1	1	
6	UDC	4	1	1	
7	Steno - III	1			
8	Deputy Ranger	5	2	2	
9	Draftsman	1			
10	Surveyor	1			

11	LDC	2	2	2	
12	Forester	14	6	6	
13	Vety Field Assistant	3	1	1	
14	Cinema Operator	1			
15	Driver	2	1	1	
16	Forest Guard	30	7	6	1
17	Chowkider	1	1	1	
18	I.B. Chowkider	1	1	1	
19	Plantation Mali	1			3
20	Dak Runner	1			
21	Animal Feeder	4	3		3
22	Peon	2	2	2	
23	Mahout	1			
24	Handy Man		1	1	
25	Watchman/ Security				4
26	Ward Staff/ Cleaner				3
27	P. Labour	5			
	Total	90	34	30	14

2.9.8 Name of Estt / Office: Lunglei Forest Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF (IFS)	1	1	1	-
2	ACF	1	1	1	-
3	Assistant	1	1	1	-
4	Forest Ranger	6	1	1	-
5	UDC	3	1	1	-
6	Draftsman	1	-	-	-
7	Deputy Ranger	5	3	3	-
8	Surveyor	1	-	-	-
9	LDC	3	1	1	-
10	Forester	19	12	12	-
11	Cinema Operator	1	-	-	-
12	Driver	2	1	1	-
13	Forest Guard	35	6	6	-
14	Chowkider	2	3	2	1
15	Chainman	1	1	1	-
16	Plantation Mali	2	1	1	1
17	Peon	2	2	2	-
18	Boatman	1	-	-	-

19	Handyman	-	-	-	1
20	Dak Runner	-	1	1	-
21	Forest Head Constable	-	4	4	-
22	Forest Constable	-	4	4	-
	Total	87	44	43	3

2.9.9 Name of Estt / Office: Kolasib Forest Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF/ DFO (IFS)	1	1	1	-
2	ACF	1	1	1	-
3	Assistant	1	1	1	-
4	Forest Ranger	9	3	3	-
5	Draftsman	1	-	-	-
6	Deputy Ranger	5	2	2	-
7	UDC	3	3	3	-
8	Surveyor	1	-	-	-
9	LDC	3	1	1	-
10	Forester	16	10	10	-
11	Cinema Operator	1	-	-	-
12	Driver	2	-	-	-
13	Forest Guard	44	13	13	-
14	Head Constable	-	1	1	-
15	Forest Constable	-	2	2	-
16	Chowkider	2	4	-	4
17	I.B. Chowkider	2	1	1	-
18	Dak Runner	1	1	1	-
19	Chainman	2	2	2	-
20	Plantation Mali	1	-	-	1
21	3oatman	2	-	-	-
22	Peon	2	1	1	-
23	Sweeper	-	-	-	-
24	Handyman	-	-	-	1
	Total	100	47	43	6

2.9.10 Name of Estt / Office: Champhai Forest Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF (IFS)	1	1	1	-
2	ACF	1	-	-	-

3	Assistant	1	1	1	-
4	Forest Ranger	7	1	1	-
5	Deputy Ranger	6	2	2	-
6	UDC	3	2	2	-
7	Surveyor	1	-	-	-
8	LDC	3	1	1	-
9	Forester	22	3	3	-
10	Driver	1	1	1	-
11	Forest Guard	32	11	11	-
12	Dak Runner	1	-	-	-
13	Chainman	1	-	-	-
14	Plantation Mali	2	4	2	2
15	Chowkider	2	6	2	4
16	I.B. Chowkider	1	-	-	-
17	Peon	2	1	1	-
	Total	87	34	28	6

2.9.11 Name of Estt / Office: Mamit Forest Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF/DFO (MFS)	1	1	1	
2	ACF	1			
3	Assistant	1			
4	Forest Ranger	6	1	1	
5	Deputy Ranger	5	2	2	
6	Surveyor	1			
7	UDC	3	2	2	
8	LDC	2	2	2	
9	Forester	16	6	6	
10	Driver	1			
11	Forest Guard	32	5	5	
12	Chowkider	1	3	2	1
13	I.B. Chowkider	1			
14	Plantation Mali	1			3
15	Chainman	1			
16	Peon	1			
17	Boatman	Nil			1
	Total	74	22	21	5

2.9.12 Name of Estt / Office: Tlabung Forest Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF/DFO (MFS)	1			
2	ACF	1	1	1	
3	Assistant	1			
4	Forest Ranger	3	1	1	
5	UDC	2	2	2	
6	Draftsman	1			
7	Deputy Ranger	3	2	2	
8	Surveyor	1			
9	LDC	3	2	2	
10	Forester	10	2	2	
11	Driver	1			
12	Forest Guard	17	5	5	
13	Chowkider	1	3	2	1
14	Plantation Mali	1			1
15	Chainman	1	1	1	
16	Dak Runner	1			
17	Boatman	2	1	1	
18	Peon	2	1	1	
	Total	52	21	20	2

2.9.13 Name of Estt / Office: Kawrthah Forest Division

Sl. No.	Name of Post	Sanctioned Post	Filled	Regular	M/R
1	DCF/ DFO (MFS)	1	1	1	
2	ACF	1			
3	Forest Ranger	4	1	1	
4	Assistant	1			
5	UDC	3	2	1	1 (Contract)
6	Draftsman	1			
7	Deputy Ranger	4	1	1	
8	Surveyor	1			
9	LDC	2	1	1	
10	Forester	15	2	2	
11	Driver	1			
12	Forest Guard	25	3	3	
13	Chowkider	1	1		1
14	I.B. Chowkider	1	1	1	

15	Chainman	1			
16	Plantation Mali	1	2	2	
17	Dak Runner	1			
18	Peon	1	3	3	
19	Sweeper	Nil	1	1	
20	Head Constable	Nil	1	1	
	Total	65	20	18	1

2.9.14 Name of Estt / Office: N. Vanlaiphai Forest Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF/ DFO (MFS)	1			
2	ACF	1	1	1	
3	Assistant	1	1	1	
4	Forest Ranger	5	1	1	
5	Draftsman	1	1	1	
6	UDC	2	1	1	
7	Deputy Ranger	3	1	1	
8	Surveyor	1			
9	LDC	2	1	1	
10	Forester	15	1	1	
11	Driver	1			
12	Forest Guard	20	6	6	
13	Chowkider	1	5	4	1
14	Dak Runner	1			
15	Peon	2			
16	Chainman	1			
17	Plantation Mali	1			
18	Checkgate Keeper	Nil			2
	Total	59	19	18	3

2.9.15 Name of Estt / Office: Darlawn Forest Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF/ DFO (IFS)	1	1	1	
2	ACF	1			
3	Assistant	1			
4	Forest Ranger	6	2	2	
5	Deputy Ranger	4	2	2	
6	UDC	3	1	1	

7	Surveyor	1			
8	LDC	2	1	1	
9	Forester	15	5	5	
10	Driver	1			
11	Forest Guard	32	5	5	
12	Chowkider	1	5	3	2
13	Sweeper	1	2	1	1
14	Plantation Mali	1			
15	Chainman	1			
16	Peon	2	3	3	
	Total	73	27	24	3

2.9.16 Name of Estt / Office: Thenzawl Forest Division

Sl. No.	Name of Post	Sanctioned post	Filled	Regular	M/R
1	DCF/ DFO (MFS)	1	1	1	
2	ACF	1			
3	Assistant	1			
4	Forest Ranger	7	1	1	
5	UDC	2	2	2	
6	Draftsman	1			
7	Deputy Ranger	5	4	4	
8	Forester	11	7	7	
9	Surveyor	1			
10	Driver		1	1	
11	LDC	2	2	2	
12	Forest Guard	32	4	4	
13	Plantation Mali	1			2
14	Chowkider	1	3		3
15	Peon	2	1	1	
16	Sweeper	1			
17	Animal Feeder		2	1	1
	Total	69	28	24	6

2.9.17 Name of Estt / Office: Forest Protection Division

Sl. No.	Name of Post	Sanction Posts	Filled	Regular	M/R
1	DCF(MFS)	1			
2	ACF	1	1	1	
3	Forest Ranger	1			

4	UDC	3	1	1	
5	Deputy Ranger	1			
6	S.I of Forest	1			
7	LDC	2	1	1	
8	Forester	4	4	4	
9	Driver	2	1	1	
10	Forest Guard	10	2	2	
11	Head Constable	8	1	1	
12	Forest Constable	30	2	2	
13	Peon	1	1	1	
14	Handyman	1			
15	Sweeper				1
16	Chowkider		1	1	
17	Camp Follower	10			
	Total	76	15	15	1

2.9.18 Name of Estt / Office: Forest Extension Division

Sl. No.	Name of Post	Sanctioned post	Filled	Regular	M/R
1	DCF(MFS)	1			
2	ACF	1	2	2	
3	Assistant	1	1	1	
4	Forest Ranger	1			
5	Draftsman	1			
6	UDC	2	1	1	
7	Publicity Assistant	Nil	1	1	
8	LDC	2			
9	Forester	1			
10	Cinema Operator	1			
11	Forest Guard	1			
12	Peon	1	1		1
13	Plantation Mali				1
	Total	13	6	5	2

2.9.19 Name of Estt / Office: Forest Training School

Sl. No.	Name of Post	Sanctioned Post	Filled	Regular	M/R
1	DCF (MFS)	1	1	1	
2	ACF	1			
3	Head Assistant	1	1	1	

4	Forest Ranger	2			
5	Deputy Ranger		1	1	
6	UDC	3	2	2	
7	LDC	2			
8	Forester	1	3	3	
9	Cinema Operator	1	0	0	
10	Lab. Assistant	1	1	1	
11	Driver	1			
12	PT Instructor	2	0	0	
13	Forest Guard		1	1	
14	Chowkider	1	1	1	
15	Sweeper	1			
16	Plantation Mali	1			1
17	Peon	2	1	1	
18	I.B. Chowkider		1	1	
19	Cook	4			
	Total	25	13	13	1

2.9.20 Name of Estt / Office: Working Plan (North) Division

Sl. No.	Name of Post	Sanctioned Post	Filled	Regular	M/R
1	DCF (IFS)	1	1	1	
2	ACF	1	1	1	
3	Head Assistant	1	1	1	
4	Forest Ranger	1			
5	Draftman	2	1	1	
6	Deputy Ranger				
7	UDC	4	1	1	
8	Surveyor	1			
9	LDC	3	2	2	
10	Forester	2			
11	Driver	1			
12	Forest Guard	6			
13	Peon	2	1	1	
14	Chainman	1			
15	Forest Constable		1	1	
	Total	26	9	9	

2.9.21 Name of Estt / Office: Working Plan (South) Division

Sl. No.	Name of Post	Sanctioned Post	Filled	Regular	M/R
1	DCF (MFS)	1	1	1	
2	ACF	1			
3	Forest Ranger	1			
4	Assistant	1	1	1	
5	UDC	2	2	2	
6	Surveyor	2			
7	LDC	2			
8	Forester	2	2	2	
9	Driver	1	1	1	
10	Forest Guard	4			
11	Peon	1	1	1	
12	Chainman	1			
13	Chowkider	1			
14	Sweeper	Nil	1		1
	Total	20	9	8	1

2.9.22 Name of Estt / Office: Chief Wildlife Warden

Sl. No.	Name of Post	Sanctioned Post	Filled	Regular	PE
1	CCF & CWLW	1	1	1	
2	ACF(MFS)	1			
3	Superintendent	1	1	1	
4	Assistant	2	2	2	
5	UDC	3*	3	2	1 (Contract)
6	Steno - III	1	1	1	
7	Deputy Ranger	1			
8	LDC	2	1	1	
9	Forester	1			
10	Driver	1	1	1	
11	Forest Guard	1	1	1	
12	Peon	2	2	2	
13	Dak Runner	1			
14	Sweeper		1	1	
15	Boatman				1
	Total	18	14	13	2

2.9.23 Name of Estt / Office: Khawzawl Wildlife Division

No	Name of Post	Sanctioned	Filled	Regular	M/R
1	DCF (MFS)	1			
2	ACF	1	1	1	
3	Forest Ranger	2			
4	Deputy Ranger	2	1	1	
5	Forester	13	3	3	
	Surveyor	1			
6	Forest Guard	25	4	4	
7	UDC	2	1	1	
8	LDC	1	2	2	
9	Wildlife Guard				
10	Peon		1	1	14
	TOTAL	48	13	13	14

2.9.24 Name of Estt / Office: Dampa Tiger Reserve

No	Name of Post	Sanctioned	Filled	Regular	M/R
1	CF(WL) / F.D	1	1	1	
2	ACF	1	1	1	
3	Forest Ranger	2	1	1	
4	Deputy Ranger	2	1	1	
5	UDC	2	2	2	
6	LDC	2	1	1	
7	Forester	10			
8	Driver	1			
9	Forest Guard	15	4	4	
10	Forest Constable	10			
11	Peon	1	2	2	
12	IB Chowkider		1	1	
	TOTAL	47	14	14	0





3 | Forest Land, Forest Cover and Vegetation

3.1 FOREST RESOURCES OF MIZORAM

Forests have been the most important natural resources to the people as 84.53 per cent (which is less by 0.88% in compare with ISFR, 2019) of the geographical area of the State is under forest and tree cover (ISFR, 2021). In Mizoram, all natural resources in and around a village belong to the communities and everyone in the village has the right to utilize the land and cultivate it according to his needs as per the approval of the Village Council. The recorded forest area of the State is 17,820 km². It consists of the Innerline Reserved Forests notified under Indian Forest Act, 1878 by the then Assam Government, Riverine Reserved Forests half a miles on both sides of 16 important rivers of the State and Roadside Reserved Forests on both side of Silchar to Aizawl Road via Sairang, both notified under Section 21 of Mizo District (Forest) Act, 1955, few small patches of Reserved Forests in various Forest divisions notified from 1964 to 1987, and Compensatory Afforestation areas transferred to the Forest department in lieu of forest lands diverted for non forestry purposes under Forest (Conservation) Act, 1980 etc. Another unique and important category of forests is the Safety and Supply Reserves, which have been maintained in most of the villages since long time as a mean to save them from natural disasters and to meet the day to day requirement of fuel wood, timber, poles, bamboos and other non wood forest products from these areas. Besides this, there are two National Parks and eight Wildlife Sanctuaries covering an area of 1,997.75 km² (with DTR buffer area - 488 sq.km), which constitutes 9.47 % of the State's geographical area.

3.2. DISTRICT-WISE FOREST COVER IN MIZORAM - AS PER ISFR 2023

District	Calculated Area by Sol	2023 Assessment					Total	Scrub
		VDF	MDF	Open Forest	Total	% of Calculated Area by Sol	Change wrt 2021 Raster based*	
Aizawl ^H	2,213.50	15.09	917.38	967.42	1,899.89	85.83	-33.64	13.89
Champhai ^H	1,652.50	42.95	915.45	415.98	1,374.38	83.17	86.69	68.24
Hnahthial ^H	851.50	0.00	372.14	363.32	735.46	86.37	114.67	12.62
Khawzawl ^H	1,088.25	9.03	489.22	324.92	823.17	75.64	12.89	49.75
Kolasib ^H	1,492.50	1.32	636.15	640.45	1,277.92	85.62	-37.58	2.68
Lawngtlai	2,424.75	78.44	781.73	1,081.75	1,941.92	80.09	50.17	25.51
Lunglei	3,685.25	30.32	1,263.70	1,964.41	3,258.43	88.42	-30.66	27.77
Mamit	3,048.25	50.07	1,176.17	1,495.81	2,722.05	89.30	-21.96	32.11

Saitual	1,651.25	17.10	729.86	612.81	1,359.77	82.35	-17.56	60.92
Serchhip	1,443.75	16.71	589.59	603.07	1,209.37	83.77	14.17	10.18
Siaha	1,529.50	0.49	764.37	623.24	1,388.10	90.76	104.54	10.87
Grand Total	21,081.00	261.52	8,635.76	9,093.18	17,990.46	85.34	241.73	314.54

3.3. LAND USE PATTERN

Land Use Types	Area (in '000 ha)	Percentage
Geographical Area	2,108	
Reporting area for land utilization	2,038.99	100.00
Forests	1,585.30	77.75
Not available for land cultivation	75.25	3.69
Permanent pastures and other grazing lands	11.11	0.55
Land under misc. tree crops and groves	41.31	2.03
Culturable wasteland	7.44	0.36
Fallow land other than current fallows	127.32	6.24
Current fallows	46.56	2.28
Net area sown	144.70	7.10

Forest Cover

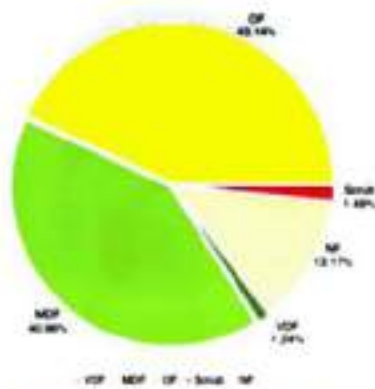


Table Forest Cover of Mizoram

Class	Area	% of Calculated Area by Sol
VDF	261.52	1.24
MDF	8,635.76	40.96
OF	9,093.18	43.14
Total	17,990.46	85.34
Scrub	314.54	1.49

3.4. DIVISION-WISE FOREST COVER IN MIZORAM

District	Geographical Area (GA)	2023 Assessment				%of Digitized Division Boundary Area	Change wrt 2021 as-sessment	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Aizawl	1,730.75	21.99	649.23	798.89	1,470.11	84.94	-35.81	19.88
CADC	671.79	0.00	177.88	273.03	450.91	67.12	-16.17	4.44
Champhai	3,238.52	59.07	1,646.13	887.57	2,592.77	80.06	87.46	142.78
Dampa Tiger Reserve	377.17	29.84	129.38	213.13	372.35	98.72	-0.91	0.04
Darlawn	1,527.25	11.48	679.63	633.65	1,324.76	86.74	-30.82	21.42
Kawrthah	816.74	0.00	342.19	322.23	664.42	81.35	-0.69	15.41
Kolasib	1,516.42	1.32	642.97	605.97	1,250.26	82.45	-37.30	2.61
LADC	1,742.20	78.52	596.66	803.28	1,478.46	84.86	67.97	19.95
Lunglei	1,882.48	0.06	717.22	1,002.05	1,719.33	91.33	53.35	11.89
MADC	1,542.89	0.49	769.43	623.50	1,393.42	90.31	102.33	11.96
Mamit	1,785.33	18.00	668.42	928.21	1,614.63	90.44	-19.64	16.16
N.Vanlaiphai	994.69	2.63	460.81	366.20	829.64	83.41	106.89	12.56
Thenzawl	2,187.37	38.09	810.84	1,074.44	1,923.37	87.93	-35.13	20.80
Tlabung	1,084.88	0.00	329.41	545.78	875.19	80.67	-0.20	14.24
Area Which Does not fall in any Division	48.43	0.03	15.56	15.25	30.84	63.68	0.40	0.40
Grand Total	21,146.91	261.52	8,635.76	9,093.18	17,990.46	85.07	241.73	314.54

* As per the division boundary shapefile provided by State Forest Department

* Area figure calculated without normalization factor.

3.5 FOREST COVER IN MUNICIPAL AREAS OF MIZORAM

(KM²)

Sl. No.	Name of Urban Local Body	Area as per Digitized Boundary	2023 Assessment				%of Total Forest Cover w.r.t. Area of Digitized Boundary	Scrub
			Very Dense Forest	Mod. Dense Forest	Open Forest	Total Forest Cover		
1	Aizawl	113.71	0.00	41.04	29.22	70.26	61.79	2.18
2	Lunglei	170.28	0.00	70.78	78.39	149.17	87.60	0.47
	Grand Total	283.99	0.00	111.82	107.61	219.43	77.27	2.65

*Shapefile of digitized boundary as provided by under Secretary to Govt. of Mizoram; Environment, Forests & Climate Change Department

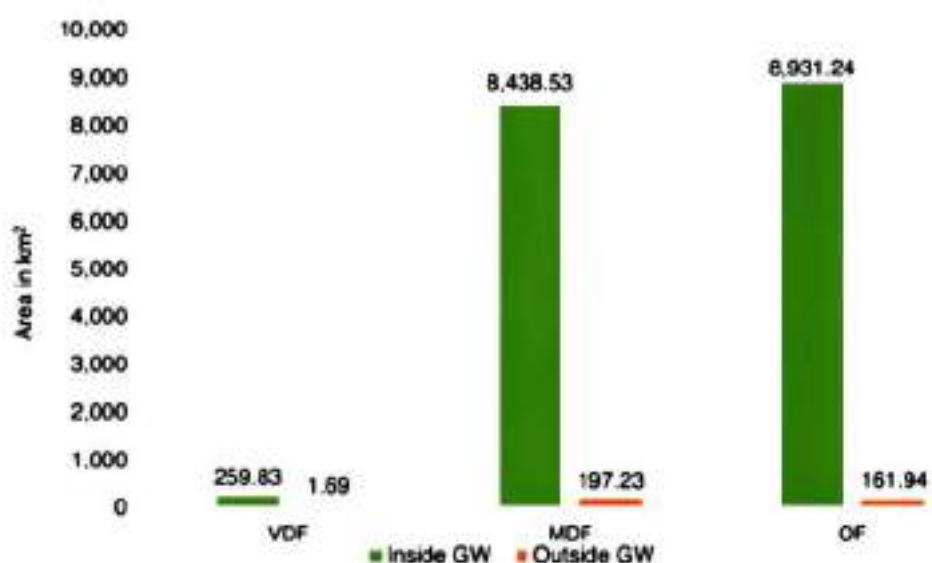
3.6 FOREST COVER INSIDE AND OUTSIDE RECORDED FOREST AREA (OR GREEN WASH)

The Forest Cover inside and outside Recorded Forest Area (RFA) has been analysed in different categories and presented in Table given below.

3.6.1 Forest Cover Inside and Outside Recorded Forest Area (or Green Wash) in Mizoram (Km²)

Forest Cover Inside and Outside Recorded Forest Area (or Green Wash)				Forest Cover Outside the Recorded Forest Area (or Green Wash)			
VDF	MDF	OF	Total	VDF	MDF	OF	Total
156	5,624	11,776	17,556	1	91	172	264
0.89%	32.03%	67.08%		0.38%	34.47%	65.15%	

*in case of Mizoram, Green Wash boundaries have been used.



3.6.2 Forest Cover Change Matrix Inside RFA/GW for Mizoram between 2021 Raster based and 2023 Assessments (Km²)

Class	2023 Assessment inside RFA/GW					Total ISFR 2021 inside RFA/ GW Raster based*
	VDF	MDF	OF	Scrub	NF	
VDF	192.71	0.01	0.03	0.00	0.98	193.73
MDF	66.11	8,269.75	5.72	1.06	306.00	8,648.64
OF	OF	10.59	8,026.29	3.14	553.49	8,594.31
Scrub	0.80	0.00	0.00	1.43	0.00	1.43
NF	0.00	158.18	899.20	295.85	1,778.66	3,132.10
Total ISFR 2023 inside RFA /GW	0.21	8,438.53	8,931.24	301.48	2,639.13	20,570.21
Net Change	66.10		336.93	300.05	-492.97	

*Area figure calculated without normalization factor.

3.6.3 Forest Cover Change Matrix Inside RFA/GW for Mizoram between 2021 Raster based and 2023 Assessments (Km²)

Class	2023 Assessment inside RFA/GW					Total ISFR 2021 inside RFA/ GW Raster based*
	VDF	MDF	OF	Scrub	NF	
VDF	0.36	0.00	0.00	0.00	0.00	0.36
MDF	1.33	178.27	0.11	0.00	11.18	190.89
OF	Total	0.20	111.83	0.00	8.77	120.80
Scrub	0.00	0.00	0.00	0.29	0.00	0.29
NF	0.00	18.76	50.00	12.77	116.92	198.45
Total ISFR 2023 inside 8,438.53 RFA /GW	1.69	197.23	161.94	13.06	136.87	510.79
Net Change	1.33	6.34	41.14	12.77	-61.58	

*Area figure calculated without normalization factor

3.6.4 Altitude-wise Forest Cover in Mizoram (Km²)

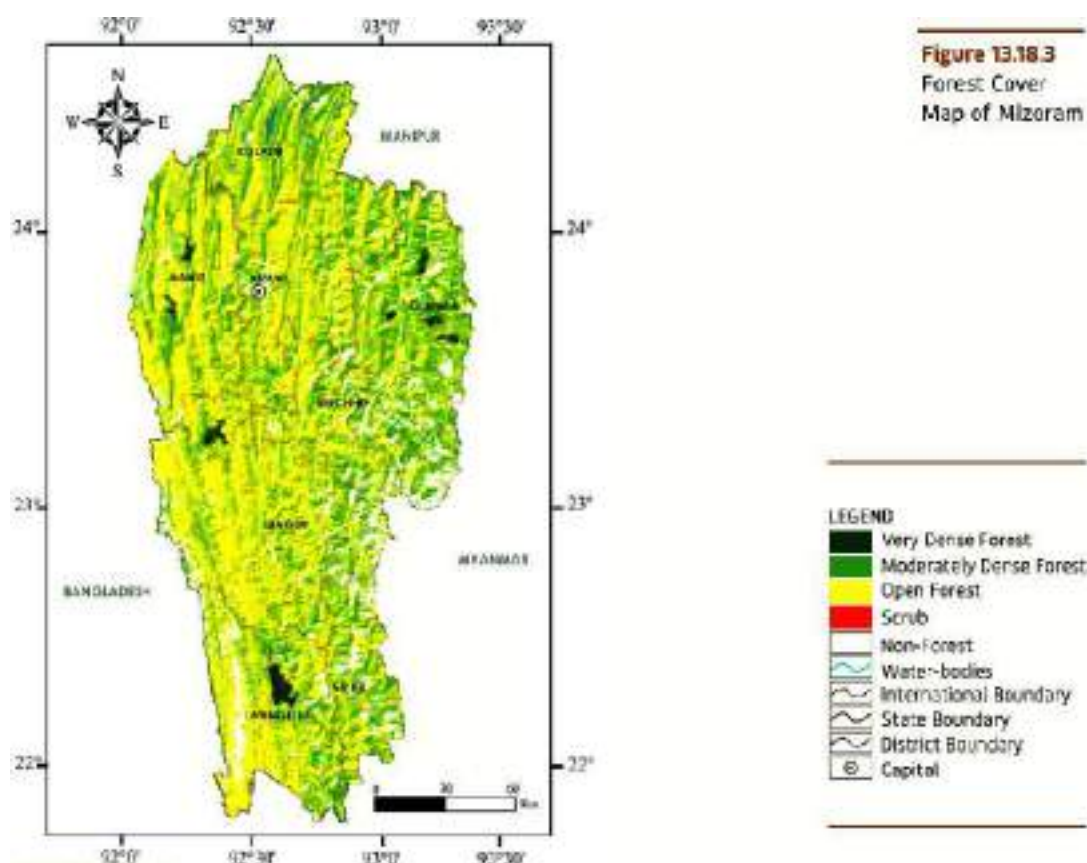
Altitude Zone	Calculated Area by Sol	VDF	MDF	OF	Total	Scrub
0-500	9,163.00	87.18	3,125.39	4,676.68	7,889.25	62.19
500-1000	8,205.00	76.95	3,610.92	3,421.12	7,108.99	145.70
1000-2000	3,710.00	VDF	1,898.17	994.98	2,989.75	106.65
2000-3000	3.00	96.60	1.28	0.40	2.47	0.00
Total	21,081.00	261.52	8,635.76	9,093.18	17,990.46	314.54

(based on SRTM, Digital Elevation Model, 30 m, 2016).

3.6.5 Forest Cover in Different Slope Classes in Mizoram (Km²)

Slope (in degrees)	Geographical Area	VDF	MDF	OF	Total	Scrub
0-5	1,565	16.74	488.44	602.07	1,107.25	17.56
5-10	2,668	43.44	947.33	1,161.01	2,151.78	37.97
10-15	3,625	60.25	1,371.99	1,610.57	3,042.81	59.07
15-20	4,058	52.71	1,627.50	1,816.08	3,496.29	66.65
20-25	3,713	38.34	1,574.11	1,651.69	3,264.14	57.73
25-30	2,745	24.68	1,237.70	1,194.65	2,457.03	40.96
>30	2,707	25.36	1,388.69	1,057.11	2,471.16	34.60
Total	21,081	261.52	8,635.76	9,093.18	17,990.46	314.54

(based on SRTM, Digital Elevation Model, 30 m, 2016).



3.7 FOREST TYPES

The area under different forest types of Mizoram as per the Champion & Seth classification (1968), according to the Atlas Forest Types of India 2020 are presented in the following Table.

3.7.1 Area statistics of the Forest Types found in Mizoram (km²)

Sl. No.	Forest Type	Area	% of the total mapped area*
1.	2B/C1/2S1 Pioneer Euphorbiaceous scrub	74.28	0.41
2.	2B/C2 Cachar semi-evergreen forest	5,572.04	30.99
3.	2/2S1 Secondary moist bamboo brakes	6,656.91	36.65
4.	3C/C3b East Flimalayan moist mixed deciduous forest	5,897.13	31.37
5.	8B/C1 East Flimalayan subtropical wet hill forest	7.97	0.04
6.	9/C2 Assam subtropical pine forest	92.68	0.52
	Sub Total	18,301.01	99.98
7.	TOF/Plantation	3.99	0.02
Total (Forest Cover & Scrub)		18,305.00	100.00

*Forest Types have been assigned to the natural forest formations under forest cover and scrub categories shown in forest cover mapping (ISFR, 2019). The total mapped area, therefore, is sum of forest cover and scrub.

3.7.2 Forest Areas

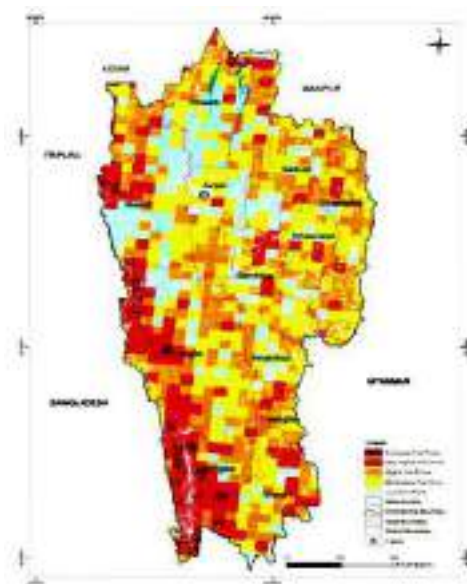
District-wise number of forest fire detected by FSI using SNPP-VIIRS sensors (This includes large. Continuous and repeated forest fires) during the fire season 2022-23 & 2023-24.

3.7.3 District-wise Number of Forest Fire Detected

Sl. No.	District	SNPP-VIIRS Detection during 2022-23	SNPP-VIIRS Detection during 2023-24
1	Aizawl	446	442
2	Champhai	581	140
3	Hnahthial	70	178
4	Khawzawl	127	198
5	Kolasib	245	284
6	Lawngtlai	1,385	1,811
7	Lunglei	1,045	1,558
8	Mamit	814	994
9	Saitual	316	340
10	Serchhip	381	245
11	Siaha	388	437
	Total	5,798	6,627

3.7.4 District-wise Number of Forest Fire Detected

Sl. No.	Forest Fire Prone Classes	Forest Cover	% of Total Forest Cover
1.	Extremely fire prone	473.93	2.59
2.	Very highly fire prone	2,596.79	14.19
3.	Highly fire prone	6,252.11	34.15
4.	Moderately fire prone	5,164.07	28.21
5.	Less fire prone	3,818.10	20.86
	Total	18,305.00	100.00



Fire Prone Forest Areas under Different Fire Prone Classes

3.8. RESULTS DERIVED FROM NFL FOR MIZORAM

3.8.1. Number of Trees and their Volume for Top 5 Species in RFA

Sl. No.	Species	No. of Trees (in '000)	Volume (Mm ³)
1.	Schima wallichii	16,007	3.31
2.	Quercus species	15,153	2.38
3.	Macaranga species	13,411	2.32
4.	Tectona grandis	11,494	3.63
5.	Albizia species	5,467	1.15

3.8.2. Number of Trees and their Volume for Top 5 Species in Rural Area

Sl. No.	Species	No. of Trees (in '000)	Volume (Mm ³)
1.	Schima wallichii	27,708	6.989
2.	Macaranga species	19,569	2.186
3.	Castanopsis species	15,102	2.425
4.	Areca catechu	11,989	0.250
5.	Quercus species	11,564	3.358

3.8.3. Number of Trees and their Volume for Top 5 Species in Urban Area

Sl. No.	Species	No. of Trees (in '000)	Volume (Mm ³)
1.	Areca catechu	1,207	0.024
2.	Mangifera indica	950	0.129
3.	Schima wallichii	531	0.100
4.	Artocarpus heterophyllus	375	0.076
5.	Parkia javanica/ Gleditsia javanica	268	0.031

3.8.4. Major NTFP Species in Mizoram

Sl. No.	Species	Habit	No. of Plants (in '000)
1.	Emblica officinalis/ Phyllanthus emblica	Tree	38.849
2.	Saraca asoca	Tree	11,179
3.	Aquilaria malaccensis/ Aquilaria agallocha	Tree	7,710
4.	Alstonia scholaris	Tree	6,362
5.	Costus speciosus	Shrubs	11,11,616
6.	Hedyotis scandens/ Dimetia scandens	Shrubs	7,41,077
7.	Calamus Spp.	Climbers	4,80,328
8.	Embelia ribes	Climbers	1,37,237

9.	Thysanolaena latifolia/ Thysanolaena maxima	Herbs	5,16,36,741
10.	Curcuma caesia	Herbs	32.59.838

3.8.5. Major Invasive Species in the State Inside the RFA in Mizoram

Sl. No.	Species	Estimated Extent (km ²)
1.	Chromolaena odorata	128.40
2.	Saccharum spontaneum	50.44
3.	Mikania micrantha	21.78
4.	Ipomoea carnea	17.20
5.	Ageratina adenophora	12.61

Ruby Cheeked Sun Bird



4 CONSERVATION AND AFFORESTATION PROGRAMMES

4.1 CSS: NATIONAL MISSION FOR GREEN INDIA (GIM)

Actual implementation this scheme starts from 2016-17 only under one of the eight missions of Climate Change.

During 2023-24, advance work and creation are not taken up 1st year maintenance of 5,968 Ha, 2nd year maintenance of 3,528 Ha and 3rd year maintenance of 3,024 Ha was taken up.

4.1.1 Fund Utilized during 2023-24

(Rs in lakh)

FUND UTILIZED DURING 2022-23		
S.N.	SOURCE OF FUND	Amount (Rs. in lakhs)
1	Fund released by Government of India as Central Share	2113
2	Amount utilized State Matching Share from State Govt.	234.77
TOTAL		2347.77

4.1.2 GIM Physical and Financial Achievement during 2023-24

SN	"Submission/ Intervention"	Category	Type	"Admissible Cost (Rs./ha)"	Physical & Financial Target & Achievement			
					Target		Achievement	
					Phy (ha)	Fin (Rs in lakhs)	Phy (ha)	Fin (Rs in lakhs)
1	Sub Mission 1: Enhancing quality of forest cover and improving ecosystem services (4.9 m ha)	a) Moderately dense forest cover, but showing degradation	ANR (Without Plantation)	57000				
			a) Advance Work	13300				
			b) Creation (Balance)	22040				
		b) Eco-restoration of degraded open forests	c) Maintenance I Year	13680	860	118	860	118
			II Year	4940				

			III Year	3040	430	13	430	13
			200 Plants/Ha. (Type A)	60800				
			a) Advance Work	11400				
			b) Creation (Balance)	21660				
			c) Maintenance I Year	11400	1202	137	1202	137
			II Year	9120	1203	110	1203	110
			III Year	7220	502	36	502	36
			1100 Plants/Ha. (Type B)	110920				
			a) Advance Work	24960				
			b) Creation (Balance)	49100				
			c) Maintenance I Year	15960	298	48	298	48
			II Year	11400	315	36	315	36
			III Year	9500	17	1	17	1
			2500 Plants/Ha. (Type C)	179220				
			a) Advance Work	33900				
			b) Creation (Balance)	71940				
			c) Maintenance I Year	26080	1732	452	1732	452
			II Year	23920				
			III Year	23380	1645	388	1645	388
2	Sub Mission 2: Ecosystem restoration and increase in forest cover (1.8 mha)	a) Rehabilitation of Shifting Cultivation Areas	1100 Plants/Ha.	110920				
			a) Advance Work	24960				
			b) Creation (Balance)	49100				
			c) Maintenance I Year	15960	1186	189	1186	189
			II Year	11400	700	80	700	80
			III Year	9500	300	29	300	29

3	Sub Mission 3: Enhancing tree cover in Urban & Peri-urban areas (including institutional lands): 0.2mha	a) Plantation in Urban & Peri-urban areas	2500 Plants/Ha.	353600				
			a) Advance Work	71500				
			b) Creation (Balance)	109600				
			c) Maintenance I Year	80300	351	282	351	282
			II Year	46100				
			III Year	46100				
4	Sub Mission 4: Agro-Forestry and Social Forestry (increasing biomass & creating carbon sink): 3 mha	a) Farmer's land including current fallows	Farmer's land	74900				
			a) Advance Work	17900				
			b) Creation (Balance)	28500				
			c) Maintenance I Year	9880				
			II Year	9500	1180	117	1180	117
			III Year	9120				
	c) Highways/ Rural Roads/ Canals/ Tank Bunds	Roads/Canals/ Tank Bunds	235200					
		a) Advance Work	37400					
		b) Creation (Balance)	100200					
		c) Maintenance I Year	41200	339	140	339	140	
		II Year	28200	130	36	130	36	
		III Year	28200	130	36	130	36	
TOTAL (A)				12520	2248	12520	2248	
B. For Support Activities								
1	Mission Organisation, operation and maintenance, contingencies and overheads				LS	99	LS	99
Total (B)					LS	99	LS	99
TOTAL (A+B)				12520	2347	12520	2347	

4.1.3 Achieved activities during 2023-24

Activities	Phy (Ha)	Fin (Rs. in lakh)
Advance Work	0	0
Creation	0	0
1st year	7149	1481

2nd year	2349	262
3rd year	3014	505
support activities	LS	99
TOTAL	12511	2347

4.2 PHYSICAL AND FINANCIAL ACHIEVEMENT UNDER GIM IN RESPECT OF MIZORAM FROM 2016-2024

Financial Year	Physical Achievemets (area in ha.)					Financial Achievement (Rs. in lakhs)			
	Ad-vance Work	Crea-tion	1 st Yr Mainte-nance	2 nd yr Mainte-nance	3 rd yr Main-te-nance	CSS	SMS	State Fund	Total
2016-17	19643	-	-	-	-	988.35	111.04	-	1099.39
2017-18	-	2559	-	-	-	2000.00	222.22	565.487	2787.707
2018-19	-	6716.9	2559	-	-	2236.42	248.49	383.8887	2868.7987
2019-20		2313.8	5707.4	2559	-	1770.901	196.77	353.0528	2320.72
2020-21					2231	299.4801	-	-	299.4801
2021-22		3417.4	3322.8	5707.4	328	2985.8	365.04	-	3350.84
2022-23	1000	4636.1	1007	3753.3	7107.7	3627.00	403.00	-	4030.00
2023-24	0	0	1481	262	505	2113.00	234.77	-	2347.77
TOTAL	20643	19643.2	14077.2	12281.7	10171.7	13907.9511	1546.56	1302.4285	16756.9358



Pic : Chip
Photo : Johnny Lalunaituanga



5 | WILDLIFE CONSERVATION

5.1 BACKGROUND INFORMATION OF WILDLIFE WING IN MIZORAM

Mizoram in north-east India has a biodiversity habitat which comprises of Indo-Malayan bio-geographic region contributing to unique flora and fauna composition quite different from mainland India.

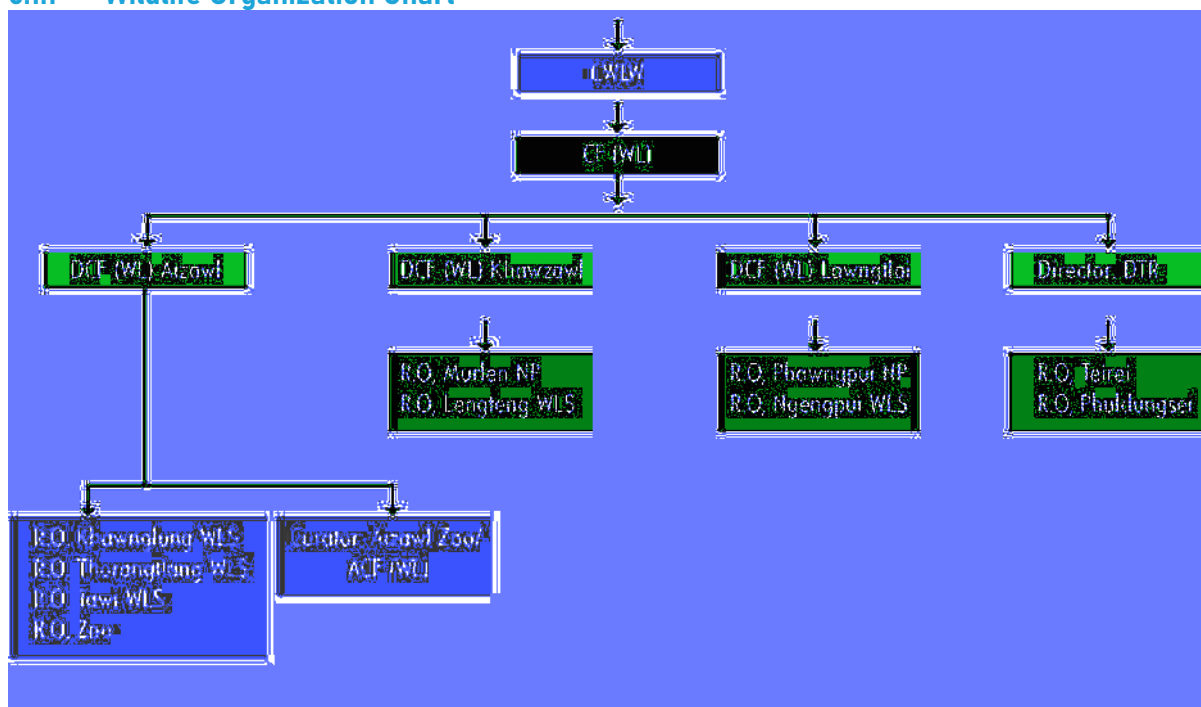
Wildlife conservation in Mizoram had been an important mandate of the Department of Environment, Forests & Climate Change. Initially, there used to be only one Wildlife Division which functioned under the direct control of Northern Circle. However, in the year 1994 a separate Wildlife wing was created headed by Chief Wildlife Warden of the rank of Conservator of Forests who has been looking after the matters pertaining to Wildlife conservation in the State including implementation of Wildlife (Protection) Act, 1972. Later in the year 2010, the Chief Wildlife Warden post was upgraded to the rank of Chief Conservator of Forests and now there are four separate Wildlife offices headed by one CF and three DCFs under the direct control of Chief Wildlife Warden (CWLW) as shown below.

In line with National Wildlife Action Plan, the Protected Area network covers an area of 1509.75 Sq.km, which is about 7.16% of total Geographical Area of the State. Over and above this, the State has 14 nos. of Community Conservation Reserves with total area of 148.66 sq.km, however these are not yet notified.



Photo : Hmingtea

5.1.1 Wildlife Organization Chart



5.2 PROTECTED AREAS

There are total 11 Protected Areas i.e. 1 Tiger Reserve, 2 National Parks and 8 Wildlife Sanctuaries in the State. A list of Protected Areas is given below -

5.2.1 List of Protected Areas:

SN	Name of Protected Area	Area of PA (in sq.km)	No. & date of final Notification	District
1	Dampa Tiger Reserve	545	No. B. 12012/20/2013-FST, dated 6.9.2018	Mamit
2	Murlen National Park	100	No. B. 12012/5/99-FST dated 24.1.2003	Champhai
3	Phawngpui National Park	50	No. B. 12011/5/91-FST dated 22.7.1997	Chhimtuipui
4	Khawnglung Wildlife Sanctuary	35	No. B. 12012/10/96-FST dated 12.10.2000	Lunglei
5	Lengteng Wildlife Sancturay	60	No. B. 12012/15/94-FST dated 31.5.2002	Champhai
6	Ngengpui Wildlife Sanctuary	110	No. B. 12012/4/91-FST dated 22.7.1997	Chhimtuipui
7	Pualreng Wildlife Sanctuary	50	No. B. 12012/16/2013-FST dated 10.12.2013	Kolasib
8	Tawi Wildlife Sanctuary	35.75	No. B.12012/1/91-FST dated 16.11.2001	Aizawl

9	Thorangtlang Wildlife Sanctuary	180	No. B. 12012/24/2014-FST dated 2.11.2015	Lunglei
10	Tokalo Wildlife Sanctuary	250	No. MADC 68/E&F/2006-2007/63 dated 1.10.2007	Siaha
11	Buhvum Wildlife Sanctuary	94	Final Notification not yet issued (Preliminary Notification No. B. 12012/22/2013-FST/53 dated 28.1.2015)	Chhimtuipui
Total:		1509.75		

5.2.2 Detailed payment of compensation claims during 2023-2024

Sl. No.	Name of Division	Human Death	Human Injury	Crop Damage	Cattle Killed	Property Damaged	Total
1.	Darlawn FD	-	1	-	-	-	2600.00
2.	Kolasib FD	-	-	8	-	-	12,500.00
3.	Mamit FD	1	1	1	-	-	3,22,365.00
4.	Kawrthah FD	-	2	-	-	-	50,192.00
5.	Thenzawl FD	-	-	7	-	-	31,000.00
6.	N.Vanlaiphai FD	-	1	1	2	-	1,39,609.00
7.	Tlabung FD	1	-	-	-	-	2,00,000.00
8.	Aizawl WLD	-	-	1	-	-	3,000.00
9.	CF (Eastern Circle)	-	-	1	-	-	2,500.00
	Total:	2	5	19	2	-	7,63,766.00

5.3 UPDATED REPORT ON COMMITTEES FOR WILDLIFE AND BIO-DIVERSITY CONSERVATION (STATE BOARD FOR WILDLIFE. BMCS. EDCS ETC.):

I. During 2023-2024 financial year, meeting of State Board for Wildlife (SBWL) is not convened.

5.3.1 National Wildlife Week, 2023:

The National Wildlife Week is celebrated from the 2nd to the 8th of October every year in India. This week aims at protecting and preserving India's flora and fauna. Wildlife Week was conceptualized in 1952 with a long-term goal to safeguard the lives of the endangered and threatened species of animals.

This year marks the 69th National Wildlife Week. The week was observed across all Wildlife and Forest divisions. The main activities for observing the 69th Wildlife Week include displaying banners, trekking, raising public awareness, organizing slogan and poster-making competitions, and conducting drawing competitions, among other events. The main inaugural function was held on Monday, October 3rd, 2023, at Champhai. Pu TJ Lalnuntluanga, Hon'ble Minister, Environment, Forests & Climate Change department graced the function as chief guest and the event was chaired by Pu RS Sinha, IFS, Principal Secretary & Principal Chief Conservator of Forests. Presentations on the topics 'Conservation of Wildlife in Mizoram'

and 'Community Participation in Wildlife Conservation' were delivered by Pu PC Laltanpuia, IFS, DCF(WL) Aizawl and Pu Amit Kumar Bal, Research Scholar, MZU, respectively. The Chief Wildlife Warden, Pu NC Saravanan in his address highlighted the importance of wildlife conservation and the vote of thanks was given by Pu Lalduhthlana, DFO, Champhai.

5.3.2. Annual Report on Biodiversity Conservation

In order to implement the Biological Diversity Act 2002 (NO 18 of 2003) under Chapter VI, section 22-25 of the Act; Mizoram State Biodiversity Board was constituted on 17th January 2006 by the Government of Mizoram with its headquarters at Aizawl. The Board has the Hon'ble Minister, Environment, Forest & Climate Change Department, Government of Mizoram as its Chairman and the Chief Wildlife Warden of Mizoram is Member Secretary of the Board. Mizoram State Biodiversity Board comprises 5 (Five) Ex-officio members and 4 (Four) Expert Members for 3 (Three) years and re-constituted after the term comes to an end. The current State Biodiversity Board was re-constituted vide Notification No.B.I 1015/19/2007-FST dated 9th November 2022.

5.3.3. The functions of the State Biodiversity Board shall be to:-

- a. Advise the State Government, in accordance with guidelines issued by Central Government, on matters relating to the conservation of biodiversity, sustainable use of its components and equitable sharing of the benefits arising out of the utilization of biological resources.
- b. Regulate by granting of approach or otherwise requests for commercial utilization or bio-resource & bio-utilization of any biological resources by Indians.
- c. Perform such other functions as may be necessary to carry out the provisions of this Act or as may prescribed by the State Government.
- d. Prepare in such form and at such time in each financial year as may be prescribed, its annual report, giving a full account of its activities during the previous year and submit a copy thereof to the State Government.

Under Section 41 of the Biological Diversity Act 2002 and Rule 23 of the Mizoram State Biological Rules 2010, and in compliance to the NGT Order OA 347/2016, Mizoram State Biodiversity Board has completed constitution of Biodiversity Management Committee in every local body in Mizoram. A total of 894 BMC constituted in the state. People's Biodiversity Register (PBR) had been documented (894 nos) for all constituted BMC. The status of the establishment of all Biodiversity Management Committees (BMC) and documentation of all People's Biodiversity Register had also been recorded in an Electronic Dashboard prepared by National Biodiversity Authority (NBA) and submitted the same to NBA, Chennai. As reports submitted to NBA, BMC constitution and PBR documentation had been completed in Mizoram.

During 2023 - 2024, International Day for Biological Diversity 22nd May 2023 was celebrated by Mizoram State Biodiversity Board at IASE Auditorium, Republic Veng, Aizawl. As a part of this celebration, Mizoram Biodiversity Board organized the following activities:

1. Painting Competition for High School Students in Aizawl City Area
2. Biodiversity Quiz Competition for Higher Sec School Students in Aizawl City Area broadcasted LIVE from Ignite Studio through LPS and ZONET Pvt Cable Network, Ignite Studio Official Youtube Channel.

3. Panel Discussion on Biodiversity Conservation broadcasted through LPS and ZONET Pvt. Cable Network on 22.05.2023
4. City Area Clean up Drive in collaboration with IASE
5. River Clean Up Drive in collaboration with Shemford Higher Sec School (Chite River)
6. Clean Up Drive in Village and Water Bodies by - BMC Sairang, BMC Sairang Dinthar, BMC Sihphir, BMC Sihphir Venghlun, BMC Muallungthu.
7. Tree planting Drive in collaboration with Govt. Dinthar High School at Aizawl Zoological Park.
8. Upgradation and Field Validation of 25 People's Biodiversity Register (PBR).

For the Implementation Strategy of Amrit Dharohar for all 75 RAMSAR sites of India, Mizoram Biodiversity Board updated and validated 5 Peoples Biodiversity Register (PBR) of Vahia, Miepu, Tokalo, Pala and Phura BMCs, which were located in and around Pala lake.

Mizoram Biodiversity Board had conducted Peer to Peer Learning and Exchange Visits Program for BMC members in Mizoram. Under this program, during 20th -25th November 2023, Officials from State Biodiversity Board and 10 BMC members from Muallungthu, Reiek, Khamrang, Kawnpui -I and Sairang visited Assam State Biodiversity Board. During 29th Jan - 3rd Feb 2024, Officials from State Biodiversity Board and 12 BMC members from Sihfa, Thingsulthliah, Phuaibuang, Tualbung, Thanglailung and N. Lungleng visited Meghalaya State Biodiversity Board. During 27th Feb - 7* March 2024, Officials from State Biodiversity Board and 9 BMC members from Reiek, Sihphir, Sailulak, Sailam, Sesawng and Phulmawi visited Sikkim State Biodiversity Board. The main objectives of this program are to learn the best practices from State Biodiversity Boards, Institutions and conservation. And to learn Access Benefit Sharing (ABS) Mechanism, to learn and see the management of Biodiversity Heritage Sites (BHS), to visit and interact with BMC members, to learn about the preparation of PBRs and to study the process of collection of levy/fees by the BMCs.

5.4. UPDATED REPORT OF EDCS - NO ACTIVITIES /UPDATED REPORT OF EDCS DURING THE REPORT PERIOD.

Any other relevant information - Nil

The map displays the state of Mizoram, India, with its administrative divisions and protected areas. The state is bordered by Assam to the north, Manipur to the northeast, Myanmar to the east, and Bangladesh to the southwest. The administrative divisions shown are:

- Kolasib Divn.
- Darlaw Divn.
- Aizawl Divn.
- Champhal Divn.
- Thanzawl Divn.
- Vanlaiphald Divn.
- Lunglei Divn.
- Thabung Divn.
- Laldia Divn.
- Laldu Divn.
- Maidi Divn.

Protected areas are marked with green outlines and labels:

- Patheingyi WLS
- Lawlrie WLS
- Mamit WLS
- Thabung WLS
- Thanzawl WLS
- Khawbung WLS
- Vanlaiphald WLS
- Laldia WLS
- Laldu WLS
- Maidi WLS

The map includes a scale bar (0 to 50 km) and a north arrow. The legend indicates that the green outline represents the 'Protected Area' and the red outline represents the 'Mizoram Boundary'.





6 STATE'S PROGRAMME FOR ENVIRONMENT CONSERVATION

6.1 OBSERVANCE OF GREEN MIZORAM PROGRAMME

The Government of Mizoram has been very concerned about the continuous depletion of vegetation particularly in and around urban areas due to various biotic pressures. With this in view, the Government of Mizoram launched Green Mizoram programme by government Notification No.B.11023/13/98-FST dt.6th May, 1999, in order to create awareness and increase green cover in the State by planting suitable tree species at vacant lands and road sides by involving Government employees, students, NGOs and other interested individuals etc. Apart from mass tree planting on the day of Green Mizoram, the government also introduced Sponsored Tree Planting programme for interested families/agencies/individuals to plant trees in commemoration of their beloved ones by realizing fixed amount from them for maintenance, fencing etc of such trees so planted. Apart from organized mass tree planting by various agencies on the Green Mizoram Day, a number of seedlings of different tree species were freely distributed to various local stake holders. In order to implement Green Mizoram programme effectively, the following committees have been constituted at state level:

- i) State Level Committee on Green Mizoram under the chairmanship of the Hon'ble Chief Minister of Mizoram.
- ii) Sub-committee on Green Mizoram under the Chairmanship of Hon'ble Minister, EF & CC.

Govt. of Mizoram agreed to fix the date for Green Mizoram Day vide No.F.23012/3/2012-GAD dt. 30.04.2014 and afterward 11th June is observed as Green Mizoram Day every year.

Year wise numbers of trees planted/distributed till 2023 under Green Mizoram Programme is as tabulated below:

Year	No of seedlings planted	No of seedlings distributed	Total	Venue
1999	108682	63829	172511	Cheif Minister's Bangalow
2000	124144	72910	197054	Chieldren's Park
2001	80776	47439	128215	Raj Bhawan courtyard
2002	65575	38512	104087	Chief Minister's Secretariat Complex
2003	40365	23707	64072	Vanapa Hall
2004	130989	76930	207919	New Capital Complex, Khatla
2005	66071	38804	104875	New Capital Complex, Khatla

2006	37620	22095	59715	New Capital Complex, Khatla
2007	101860	59823	161683	New Capital Complex, Khatla
2008	99964	58709	158673	New Capital Complex, Khatla
2009	183993	108058	292051	Referral Hospital Complex, Falkawn
2010	131577	77276	208853	10th Assam Rifle's Ground
2011	129994	76345	206339	Multipurpose Complex Hall, MZU
2012	38829	303493	2066047	23 Sector Assam Rifle's Complex, Khatla
2013	47232	337461	384693	ICFAI University, Durtlang North
2014	43253	189333	232586	Central Agriculture University, Selesih
2015	73900	203026	276926	Hmuifang Tourist Resort
2016	101760	253840	355600	Thenzawl
2017	24563	102322	126885	Chitelui hnar, Ramthar Veng
2018	8330	79425	87755	Raj Bhawan, Aizawl
2019	15143	82051	97193	23 Sector, Assam Rifle Complex, Khatla
2020	10683	40121	508041	City Forest, Hlimen
2021	41758	147043	188801	Mizoram College of Nursing, Falkawn
2022	19261	118540	137801	Mizoram Youth Commission Auditorium
2023	29839	126713	156572	Rohrenga Hall, Sihphir Kawnveng
2024	15472	101520	116992	Cultural Complex Auditorium, Berawtlang
Total	17,63,302	27,69,900	49,90,459	

NB: Figures are a total of seedlings planted and distributed free of cost to the public during Green Mizoram Programme.

Every year, sufficient number of seedlings for free distribution are raised by all DFOs for distribution within their jurisdiction and for planting on Green Mizoram Day. It may be noted that a good number of trees planted under Green Mizoram programme have now attained maturity and have been providing shade for travelers across the State.

6.2 | OBSERVANCE OF FIRE PREVENTION PROGRAMME

Due to prevalence of shifting cultivation, fire outbreak during jhum burning is a common phenomenon in the State. Forest fire due to jhum burning and other biotic interferences result in forest degradation every year. Deeply concerned about destruction and degradation of forest due to fire, the State government undertook some initiatives to minimise the occurrence and impact of forest fire. Therefore, the Government of Mizoram constituted a State Level Committee on fire prevention under the Chairmanship of Hon'ble Chief Minister on 25th Jan, 2000 vide notification no.B.11011/19/91-FST dated 31.01.2000 to frame a policy to control wildfire with a view to saving forest and plantations within Mizoram. A Sub-Committee on State Level Committee on fire prevention was also constituted to assist the apex body. The

District Level Committee was also constituted under the Chairmanship of Deputy Commissioner of each district to execute the policy framed by the apex body and to perform all the necessary measures and activities to prevent the incidences of fire.

The Government of Mizoram has been felicitating the best performing districts in prevention and control of forest fire. The position of achievements till date are shown as under:

6.2.1 District Level Awardees 2023-2024 for Fire Prevention, Mizoram

Name of Best Village Awarded	Items of Awards	Name of Best Village Awarded	Items of Awards
Aizawl District		Champhai District	
1 st Prize - Lamchhip	Rs 50,000 + Certificate	1 st Prize - Ruantlang	Rs 50,000 + Certificate
2 nd Prize - Kepran	Rs 30,000 + Certificate	2 nd Prize - Thekpui	Rs 30,000 + Certificate
3 rd Prize - Seling	Rs 20,000 + Certificate	3 rd Prize - Lungphunlian	Rs 20,000 + Certificate
Kolasib District		Siaha District	
1 st Prize - Bairabi North	Rs 50,000 + Certificate	1 st Prize - Chheihlu	Rs 50,000 + Certificate
2 nd Prize - Bilkhawthlir 'N'	Rs 30,000 + Certificate	2 nd Prize - Saikao	Rs 30,000 + Certificate
3 rd Prize - Bukpui	Rs 20,000 + Certificate	3 rd Prize - Amobyu Vaithie	Rs 20,000 + Certificate
Serchhip District		Lawngtlai District	
1 st Prize - Chhingchhip Mualpui	Rs 50,000 + Certificate	1 st Prize - Rawlbuk	Rs 50,000 + Certificate
2 nd Prize - Serchhip Dinthar	Rs 30,000 + Certificate	2 nd Prize - Mampui	Rs 30,000 + Certificate
3 rd Prize - Sailulak	Rs 20,000 + Certificate	3 rd Prize - Mualbu 'L'	Rs 20,000 + Certificate
Mamit District		Lunglei District	
1 st Prize - Kanghmun	Rs 50,000 + Certificate	1 st Prize - Bualte	Rs 50,000 + Certificate
2 nd Prize - Darlung	Rs 30,000 + Certificate	2 nd Prize - Sairep	Rs 30,000 + Certificate
3 rd Prize - Tuidam	Rs 20,000 + Certificate	3 rd Prize - Bualpui 'V'	Rs 20,000 + Certificate
Khawzawl District			
1 st Prize - Vanchengpui	Rs 50,000 + Certificate		
2 nd Prize - Khawhai	Rs 30,000 + Certificate		
3 rd Prize - Khualen	Rs 20,000 + Certificate		



7 | AIZAWL ZOOLOGICAL & DEER PARKS

7.1 HISTORY OF AIZAWL ZOOLOGICAL PARK :

7.1.1 Aizawl Zoological Park

The Aizawl Zoological Park the first Zoological Park of the state was established on 24th November, 2006 located along the roadside of Aizawl to Airport Lengpui in an isolated site free from the human settlements with natural surroundings which made it a congenial habitat for the inmates to live in harmony with nature.

Aizawl Zoological Park is located 14Kms away from the State Capital Aizawl and at a walking distance by the side of Aizawl–Sairang road NH 54 and was inaugurated officially on 24th November 2006. The Zoo is spread over an area of **65 ha** on a natural hilly landscape with soothing green vegetation and other natural features. In fact the natural surroundings in the Zoo provide a congenial habitat for the inmates to live in harmony with nature. The entire area of the Zoo is connected with a network of well-developed pathways having suitable numbers of public conveniences at appropriate locations. Most of the animals are kept in open air moated enclosures. The main attraction of the Zoo is Hoolock gibbon along with rare and endangered Clouded leopard, Himalayan Black Bear, Wild dog, Serow, Oriental Pied Hornbill and several other species of animals which are rarely found elsewhere in the country.

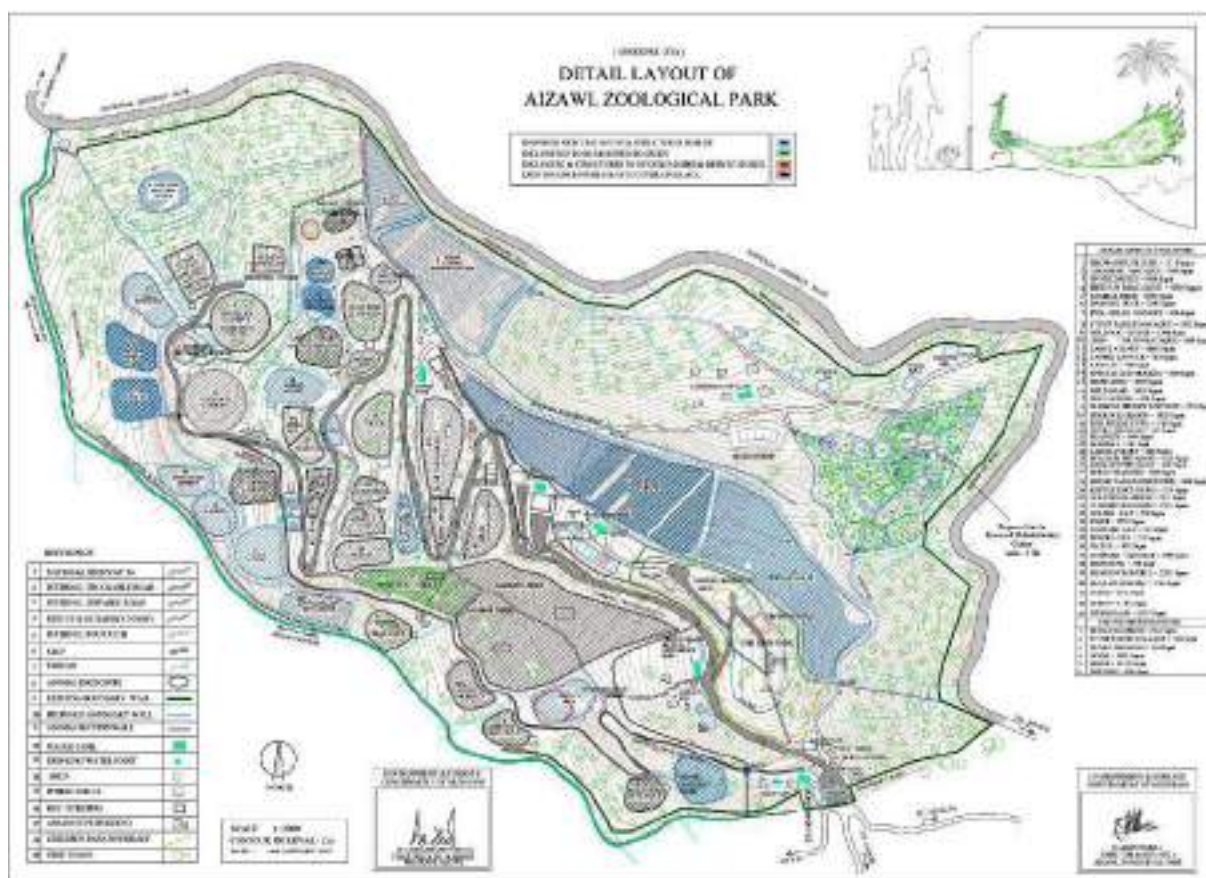


- 7.1.2 Vision :**
- 1) To provide necessary health care, hygienic food in sufficient quantity and a high quality of housing and display.
 - 2) To develop self-sustainable and genetically viable population of endangered species of animals, to be utilized as gene process full for long term wildlife conservation.
 - 3) Promoting wildlife education and awareness through proper display of animals in their near natural habitat, through properly designed exhibits signage and interpretation Centre, field tours, film and slide shows etc.
 - 4) To facilitate research on wildlife conservation.

7.1.3 Mission : The Mission of Aizawl Zoological Park is to create environment of Ex-situ conservation awareness to encourage people to develop a caring attitude towards flora and fauna; to serve as a dynamic nature conservation Centre by promoting breeding programmes for rare and endangered species of Mizoram and to offer public service, recreation, education and research.

7.1.4 Objectives :

- 1) Conservation breeding of endangered wild animal species available within geographical range of distribution, necessary exchange with other Zoological Parks.
- 2) Scientific research on animal behavior, diseases and their control, feed and nutrition and reproductive biology. The data so recorded will be made use in management of animals in the wild.
- 3) Promote conservation education, awareness and interpretation for /to the public in general and younger generation in particular.
- 4) Creation as hill bird collection center to accommodate good stock of various species of aviary population in the hill region of northeast.
- 5) Rehabilitation of orphaned or rescued endangered species in the wild.
- 6) Providing recreation for Zoo Visitors.



7.2 ABOUT US : BASIC INFORMATION ABOUT THE ZOO

Sl No	Particulars of the Zoo	Information	
1	Name of the Zoo	Aizawl Zoological Park, Mizoram	
2	Year of Establishment	24.11.2006	
3	Address of the Zoo	Sakawrtuichhun, Aizawl, Mizoram	
4	State	Mizoram	
5	Telephone Number	0389-2336679	
6	Fax Number	0389-2336041	
7	E-mail address	dcfwazl@yahoo.co.in	
8	Website	https://forest.mizoram.gov.in	
9	Distance from nearest	Airport	Lengpui Airport 15 Kms
		Railway Station	Silchar 160 Kms
		Bus Stand	Aizawl 15 Kms
10	Recognition Valid upto (Date)	-	
11	Category of Zoo	Small Category Zoo	
12	Area (in Hectares)	65 ha	

13	Number of Visitors (Financial Year)	Adult	48828 Nosf' above 10 yrs)
		Children	23417 Nos (below 10 yrs)
		Total Indian	72245 Nos
		Total Foreigners	-
		Total Visitors	72245 Nos
14	Visitors' Facilities Available in Zoo	1. Visitor Rest Sheds 2. Visitor Toilets 3. Urinals 4. Resting Places 5. Permanent benches provided at suitable in- tervals along visitor's path. 6. Drinking Water Point 7. Visitor guides	
Management Personnel of the zoo			
16	Name with designation of the Officer in-charge	Shri. Lalnunzira, IFS Dy. Conservator of Forests (Wildlife) cum Director, Aizawl Zoological Park	
17	Name of the Veterinary Officer	Dr. Rosangzuali Chhakchhuak, Veterinary Officer	
18	Name of the Curator	Nil	
19	Name of the Biologist	No Biologist posted till date.	
20	Name of the Education Officer	Nil	
21	Name of the Compounder / Lab As- sistant	Mr. Lalchhuanawma, Veterinary Field Assistant	
Owner/Operator of the Zoo			
22	*Name of the Operator	Principal Secretary to the Government of Mizoram Environment, Forest & Climate Change Department. Government of Mizoram, Aizawl	
23	Address of the Operator	PCCF Office, Tuikhuahtlang, Aizawl, Mizoram Pin -796001	
24	Contact details/Phone number of Operator	Phone No. - 0389-2325727 Fax No. - 0389-2316679	
25	E-mail address of Operator	pccfaizawlmizoram@gmail.com	

* Rule 2(m) of the Recognition of Zoo Rules, 2009. "Zoo Operator" means the person who has ultimate control over the affairs of the zoos provided that_____

- I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or
- II. in the case of a company, any director, manager, secretary or other officer, who is in charge of and responsible to the company for the affairs of the zoo; or

- III. In case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case may be the Union Territory Administration, shall be deemed to be the Zoo Operator.

7.3 CAPACITY BUILDING OF ZOO PERSONAL 2023 - 2024 :

Sl/ No	Name & Designation of the Zoo personal	Subject matter of training	Period of training	Name of the Institution where the training attended
1	Mr. Lalnunzira, IFS Director, Aizawl Zoological Park	The National Conference for Zoo Directors	10-11.09.2022	Nandankanan Zoological Park, Bhubanesware
2	Mr. Lalchhuanawma, VFA	Safe handling, care and re-habilitation of common seized wildlife	16-17.2.2023	Aizawl Zoological Park, Mizoram
3	Mr. F. Lalrinsanga, Animal Feeder	Safe handling, care and re-habilitation of common seized wildlife	16-17.2.2023	Aizawl Zoological Park, Mizoram
4	Mr. Lalhunzauva, Animal Feeder	Safe handling, care and re-habilitation of common seized wildlife	16-17.2.2023	Aizawl Zoological Park, Mizoram
5	Mr. LH Rosangliana, Animal Feeder	Safe handling, care and re-habilitation of common seized wildlife	16-17.2.2023	Aizawl Zoological Park, Mizoram
6	Mr. Vanlalhuaia, Animal Feeder	Safe handling, care and re-habilitation of common seized wildlife	16-17.2.2023	Aizawl Zoological Park, Mizoram
7	Mr. Gosuanmung Kullai, Animal Feeder	Safe handling, care and re-habilitation of common seized wildlife	16-17.2.2023	Aizawl Zoological Park, Mizoram

8	LH Rosangliana & Vanlaldika	Safe handling, care and re-habilitation of common seized wildlife	11-14.11.2024	Sepahijala, Tripura
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7.4 ZOO ADVISORY COMMITTEE :

Not yet constituted by State Government.

7.5 HEALTH ADVISORY COMMITTEE:

Constituted vide Government of Mizoram Environment & Forests Department letter No. B.12015/2/2009-FST dt.7.7.2017.

Members :-

- | | | |
|----|--|------------------|
| 1) | Principal Chief Conservator of Forests (Wildlife)/ Chief Wildlife Warden | Chairman |
| 2) | Deputy Conservator of Forests (Wildlife) | Member Secretary |
| 3) | Director, Animal Husbandry & Veterinary | Member |
| 4) | Veterinary Officer, Aizawl Zoological Park | Member |
| 5) | Curator, Aizawl Zoological Park | Member |
| 6) | Representative of Central Agriculture University Selesih | Member |
| 7) | Representative of Animal Welfare Board | Member |
| 8) | Representative of Central YMA | Member |

7.6 STATEMENT OF EXPENDITURE & INCOME OF THE ZOO DURING 2023-2024

7.6.1 Zoo expenditure during the Year 2023 - 2024

Sl. No.	Item Of Work	Amount	Head of Service
1	Forest Fire prevention and control	7,600	PFMS
2	Wages of MR for Mar & April/23	414,260	State
3	Cost of 76600 ltrs of water for Mar/23 to May/23	30,400	State
4	Security fencing of Tiger Enclosure	494,000	State
5	Renewal & Recognition of AZP	100,000	State
6	Water Connection fee of AZP	11,500	State
7	Shifting of 11kv line (Addl requirement due to revision of SOR)	83,707	State
8	Repairing of Bolero Camper	18,400	State
9	Engagement of Watch/Security Multi Tasker	643,200	State

10	Const. of Visitors Rest Shed near Hoolock Gibbon Enclosure	550,000	MOF
11	Improvement of approach road to Feed Store	100,000	MOF
12	Const. of Visitors Viewing Gallery for stump tailed macaque display enclosure	450,000	MOF
13	repairing of Hand railing from Assamese macaque enclosure to Hoolock Gibbon enclosure	300,000	MOF
14	Improvement of side drain below Incinerator Room & Binturong enclosure	100,000	MOF
15	Various items to be installed at AZP	249,800	State
16	Printing charge of Zoo Keepers Animal Health condition diary	51,000	State
17	Maintenance and upkeep of AZP	184,000	State
18	Wages for 4 nos. of casual labour for 6 months	302,400	State
19	Setting up of QR code	25,264	State
20	Procurement of single use plastic free zone	7,200	State
21	Setting up of QR code	106,200	State
22	Setting up of QR code	2,445	State
23	Const. of work shed cum electricals hardware store room	1,000,000	State (K - Deposit)
24	Borewell Drilling	1,422,000	MOF
25	Public Convenience and parking facility	700,000	MOF
26	Forest Fire prevention and control (control burning)	21,500	PFMS
27	Extension of RO Office and other works	4,087,000	MOF
	TOTAL	11,461,876	

7.6.2 Zoo Entry and Parking Fee income in the year 2023 - 2024

Sl. No.	Items	No. of visitors	Revenue earned
1	Zoo entry and Parking Fee	50875	9,62,870.00

7.7. ENTRY FEES AND OTHER CHARGES:

Sl. No	Item/Particulars	Rate in Rs.
1	Zoo Entry Fee	
	a) Adult (above 10 years)	Rs. 20.00
	b) Children (below 10 years)	Free Entry

2	Camera Fee	
	a) Still Camera b) Video Camera	Rs. 50.00 Rs. 100.00
3	Vehicle Parking Fee	
	a) Two Wheeler b) LMV c) HMV	Rs. 10.00 Rs. 20.00 Rs. 50.00

7.8. ZOO VISITING TIMING

1	MARCH - OCTOBER Monday to Saturday	10:00 AM - 04:00 PM
2	NOVEMBER - FEBRUARY Monday to Saturday	10:00 AM - 03:00 PM

CLOSED ON SUNDAY

8 | MIZORAM POLLUTION CONTROL BOARD

8.1. INTRODUCTION

Mizoram Pollution Control Board (MPCB) was constituted by Govt. of Mizoram on 22.09.1989 upon the adoption of the Central Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981.

MPCB is a statutory organization entrusted to implement Pollution Control/Environmental Laws and Rules within the state of Mizoram. Its function is to exercise the powers conferred on and perform the functions assigned to the State Pollution Control Boards under the afore-said Water and Air Acts.

The Mizoram Water (Prevention & Control of Pollution) Rules, 2002 & the Mizoram Air (Prevention & Control of Pollution) Rules, 2002 were notified by the Government of Mizoram vide its Notification No. C.18012/12/2002-FST dt. 09.4.2003 and the whole of Mizoram was declared as Pollution Control Area vide order No.C.18012/12/2000-FST dt. 02.7.2002.

MPCB is under the administration of the Department of Environment, Forests and Climate Change, Govt. of Mizoram. It is functioning in its own office building since 2018 which was constructed at Mizoram New Capital Complex, Khatla, Aizawl with the financial assistance from the Ministry of Environment, Forests and Climate Change, Govt. of India amounting to Rs. 2.25 Crore and the State Govt's matching share of Rs. 25 lakh.

The Board is having its Head Office and Central Laboratory at MINECO, Khatla, Aizawl. Besides, processing and finalization of application under various Environmental Act/Rules, the head Office also performs activities concerning general environmental policies and enforcement of various provisions of the Acts as well as general administration and co-ordination with other agencies.

8.1.1 The functions of the MPCB are:

- ✓ To collect and disseminate information relating to pollution and the prevention, control or abatement
- ✓ To inspect sewage or trade effluent treatment and disposal facilities and air pollution control systems and to review plans, specification or any other data relating to the treatment plants, disposal systems and air pollution control systems in connection with the consent granted
- ✓ Supporting and encouraging the developments in the fields of pollution control, waste recycle/reuse, eco-friendly practices etc.

- ✓ To educate and guide the entrepreneurs in improving environment by suggesting appropriate pollution control technologies and techniques
- ✓ Creation of public awareness about the clean and healthy environment and attending the public complaints regarding pollution
- ✓ Plan and implement an all-inclusive program to prevent and control pollution of surface water, ground water and air pollution in the state
- ✓ Advising the State Government on prevention and control of pollution
- ✓ To collect and disseminate information on pollution and control measures for prevention and control of water and air pollution
- ✓ Participating in, encouraging and organizing programs in examination and research related to pollution prevention and control
- ✓ Coordinating with the Central Board to organize training classes for people involved in pollution prevention and control and various programs for public education
- ✓ To fix standards for the quality of industrial effluents or urban effluents as well as receiving water bodies, improve them and classify water in the State
- ✓ To provide a suitable and cost-effective method for treating industrial effluents or municipal effluents
- ✓ To determine suitable standards for discharge of treated sewage and industrial effluents, taking into account the minimum dilution potential of any watercourse and the pollution tolerance of that watercourse
- ✓ Making, varying or cancelling any order –
 - a. Passing and amending orders for the prevention, control and discharge of waste water into watercourses
 - b. Construction of new watercourses for the disposal of waste water or alteration thereof or passing orders regarding existing systems or alternative remedial measures for control of water pollution
- ✓ To give suitable advice to the State Government regarding location of industries which are likely to cause water pollution
- ✓ To carry out the work assigned by Central Pollution Control Board and State Government from time to time.

8.2 ORGANIZATIONAL CHART:

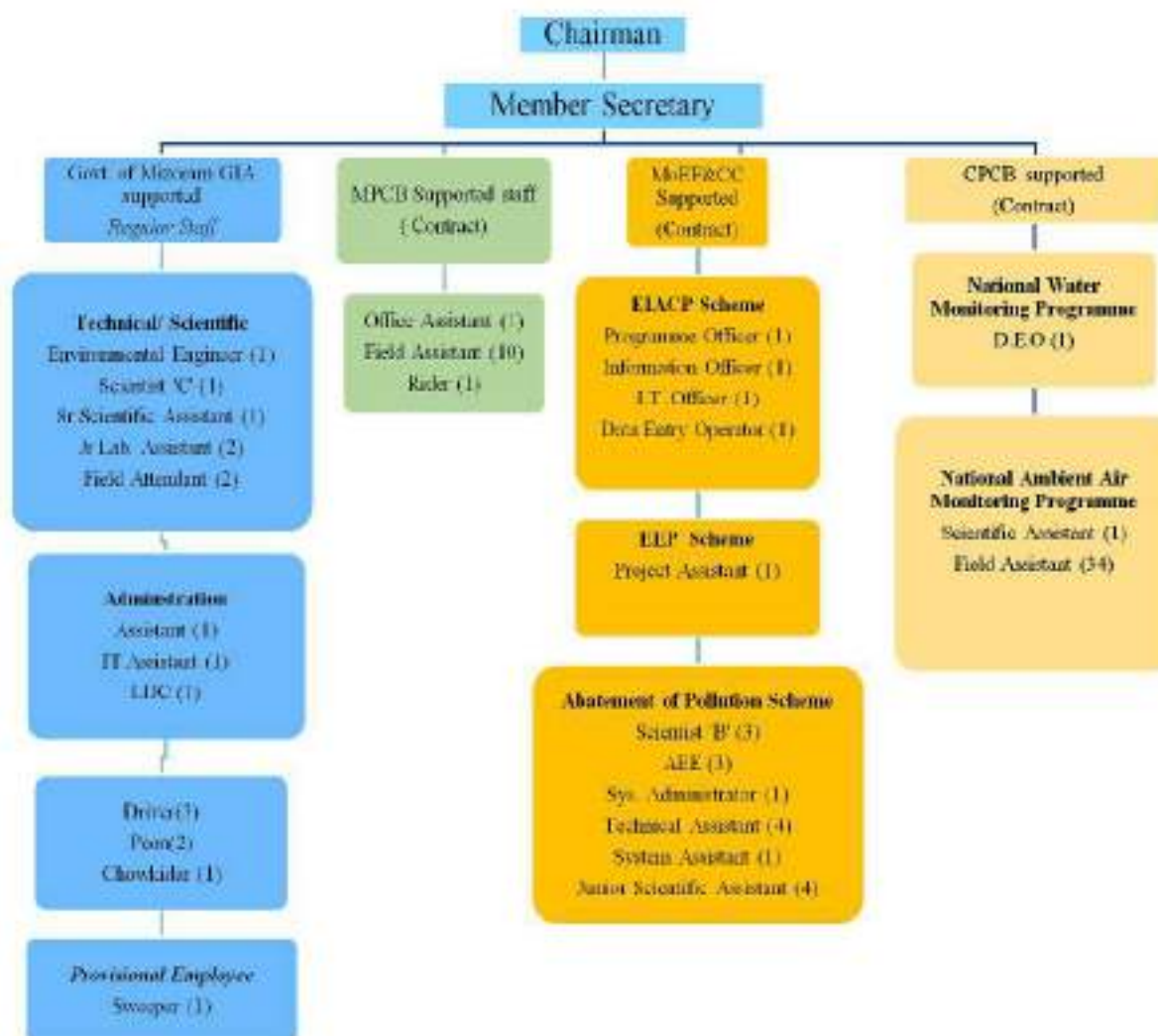


Fig 1: Organizational Chart of MPCB

8.3. CONSTITUTION OF THE BOARD

As per the provisions of Section 4 of the Water (Prevention & Control of Pollution) Act, 1974, the MPCB shall consist of the following members:

- a Chairman, being a person having special knowledge or practical experience in respect of matters relating to environmental protection or a person having knowledge and experience in administering institutions dealing with the matters aforesaid, to be nominated by the State Government; (Vide Notification No. A. 12018/1/2005 - FST, dated 30th July, 2021, "Mizoram Pollution Control Board (Qualifications, Terms and Conditions of Service of Chairman) Rules, 2021".]
- such number of officials, not exceeding five, to be nominated by the State Government to represent that Government;

- (c) such number of persons, not exceeding five, to be nominated by the State Government, from amongst the members of the local authorities functioning within the State;
- (d) such number of non-officials, not exceeding three to be nominated by the State Government, to represent the interest of agriculture, fishery or industry or trade or any other interest which, in the opinion of the State Government, ought to be represented;
- (e) two persons to represent the companies or corporations owned, controlled or managed by the State Government, to be nominated by the Government;
- (f) a full time Member Secretary, possessing qualifications, knowledge and experience of scientific, engineering or management aspects of pollution control, to be appointed by the State Government. (Vide Notification No. A.12018/17/2021-P&AR(GSW), dated 11th August, 2021," Mizoram Environment, Forest & Climate Change (Mizoram Pollution Control Board) (Group 'A' post) Recruitment Rules, 2021")

Department of Environment, Forest and Climate change, Government of Mizoram vide Notification No.B.11013/9/2017 dated 18th December, 2023 have reconstituted the Board consisting of the following members until further order:

Sl. No	Designation & Department	Position
1	Mr. Liankima Lailung, IFS (Rtd.), Chairman, MPCB	Chairman
2	Additional Principal Chief Conservator of Forests (Administration)	Member
3	Special Secretary, EF&CC Department	Member
4	Engineer-in-Chief, Public Health Engineering Department	Member
5	Principal Director, Health & Family Welfare Department	Member
6	Principal Advisor, Planning & Programme Implementation Department	Member
7	Chairman, Aizawl Local Council Association	Member
8	Municipal Commissioner, Aizawl Municipal Corporation (AMC)	Member
9	President, Central Young Mizo Association (CYMA)	Member
10	President, All Mizoram Farmer's Union (AMFU)	Member
11	Managing Director, MIZOFED	Member
12	Chairman, Zofishfed	Member
13	President, Mizoram Industries Owners Association	Member
14	Mr. C. Lalduhawma, Member Secretary, MPCB	Member Secretary

8.4. MONITORING NETWORK FOR AIR & WATER QUALITY

Mizoram Pollution Control Board monitors the air and water quality under the Central Pollution Control Board sponsored projects National Air Monitoring Programme (NAMP) and National Water Monitoring Programme (NWMP). The NAMP project covers 34 (thirty four) Ambient Air Quality Monitoring locations within the State of Mizoram. Besides the 1 (one) (CAAQMS) at one(1) location i.e at Sikulpuikawn, Aizawl.

8.4.1. National Air Monitoring Programme: (NAMP)

Besides the aforesaid 34 manual monitoring stations, a Continuous Ambient Air Quality Monitoring System (CAAQMS) is installed at Sikulpuikawn, Aizawl. CAAQMS include installation of Fixed Continuous Ambient Air Quality Monitoring System as per CPCB/SPCB guidelines, comprising of gas and BTX analyzers, dust analyzers, weather monitors and associated auxiliary items including PC based data acquisition system with suitable Software to hook up with Mizoram Pollution Control Boards and Central Pollution Control Board. This has facilitated generation of Ambient Air Quality data on continuous basis for better management of air quality.



Pic: Manual NAMP Stations at Saitual & Hnahthial District & CAAQMS, Sikulpuikawn

8.4.2 List of NAMP Stations

Sl. No	District	Station Location	Upgraded with PM ^{2.5}
1	Aizawl	Khatla	Yes
2		Laipuitlang	Yes
3		Bawngkawn	Yes
4		Dawrpui	Yes
5		Lengpui	Yes
6		Aibawk	No
7	Champhai	Kahrawt	Yes
8		Vengthlang	Yes
9	Kolasib	Project Veng	Yes
10		Diakkawn	Yes
11		Khuangpuilam	No
12	Lunglei	Farm Veng	Yes
13		Venglai	Yes
14		Theiriat	No
15	Siaha	ECM VAih	Yes
16		New Siaha	No
17		Siahatla	Yes

18	Mamit	Lungsir	Yes
19		Bazar Veng	Yes
20		Dinthar	No
21	Serchhip	P&E Veng	Yes
22		Bazar Veng	Yes
23		New Serchhip	No
24		N. Vanlaiphai	No
25	Lawngtlai	L-3, Electric Veng	Yes
26		L-IV, Chandmary	Yes
27		L-I	No
28	Saitual	Chhim Veng	No
29		Keifang	No
30	Khawzawl	Darngawn	No
31		Electric Veng	No
32		Biate	No
33	Hnahthial	Electric Veng	No
34		DC Complex	No

8.4.3. Trend Status of Ambient Air Quality in Mizoram (Residential & Commercial Locations):

The Air Quality trend in different monitoring stations and the average AQI for the reporting year is depicted in the table below:

Table: Average Weekly Air Quality Index of Mizoram 2023-2024						
Sl. No.	LOCATION	SO ₂	NO _x	PM ₁₀	PM _{2.5}	AQI
1	Khatla, MINECO, Aizawl	2	4.5	35	11	35
2	Laipuitlang, Aizawl	2	4.5	38	29	38
3	Bawngkawn, Aizawl	2	13.6	97	12	97
4	Dawrpui, Aizawl	2	14.9	77	33	77
5	Lengpui, Aizawl	2	4.5	44	37	44
6	Kahrawt, Champhai	2	4.5	21	12	21
7	Vengthlang, Champhai	2	4.5	35	15	35
8	Project Veng, Kolasib	2	4.5	18	6	18
9	Diakkawn, Kolasib	2	4.5	22	9	22
10	Farm Veng, Lunglei	2	4.5	16	12	16
11	Venglai, Lunglei	2	4.5	14	6	13
12	New Siaha, Siaha	2	4.5	41	0	41
13	ECM Vaih, Siaha	2	4.5	37	7	37
14	Bazar Veng, Mamit	2	4.5	53	21	53

15	Lungsir, Mamit	2	4.5	29	12	29
16	Bazar Veng, Serchhip	2	4.5	31	1	31
17	P&E Veng, Serchhip	2	4.5	20	8	20
18	L-IV Chandmary, Lawngtlai	2	4.5	66	43	66
19	L-3 Electric Veng, Lawngtlai	2	4.5	44	4	44
20	Chhim Veng, Saitual	2	4.5	22	0	22
21	Keifang, Saitual	2	4.5	25	0	25
22	Electric Veng, Khawzawl	2	4.5	21	0	21
23	Darngawn Veng, Khawzawl	2	4.5	23	0	23
24	Electric Veng, Hnahthial	2	4.5	19	0	19
25	DC Complex, Hnahthial	2	4.5	17	0	17
26	New Serchhip, Serchhip	2	4.5	25	0	25
27	Khuangpuilam, Kolasib	2	4.5	16	0	16
28	L-1, Lawngtlai, Lawngtlai	2	4.5	39	0	39
29	Dinthar Veng, Mamit	2	4.5	19	0	19
30	Rahsi Veng, North Vanlaiphai	2	4.5	28	0	28
31	Aibawk, Aizawl	2	4.5	23	0	23
32	Siahatla, Siaha	2	4.5	34	0	34
33	Biate, Khawzawl	2	4.5	23	0	23
34	Theiriati, Lunglei	2	4.5	8	0	8
* = Below Detection Limit (BDL)						

8.4.4. Table: Monthly Average of CAAQMS

DETERMINATION		Normalized Concentration (ppb)															
Month	Parameter	SO ₂	PM ₁₀	PM _{2.5}	NO ₂	CO	O ₃	CH ₄	HCN	HCN	HCN	HCN	HCN	HCN	HCN	HCN	HCN
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max
		100	0.1	1.1	86	24	182	4.1	2.4	1.88	2.45	0.4	0.01	1.9	884	98.8	0.1
APRIL-23	Avg	38.4	0.9	1.4	71	24.4	124	7.4	2.8	1.59	2.59	0.4	0	1.9	987	129	0.1
	Min	28.9	0.1	0.9	30	18.1	72.1	1.7	1.8	1.43	4.08	0.2	0	0.7	884	21.2	0
	Max	100	2.1	1.1	86	28.5	116	28	3.9	1.67	14.1	0.4	0.04	2.1	992	214	0.1
MAY-23	Avg	38.4	0.9	1.4	71	24.4	124	7.4	2.8	1.59	2.59	0.4	0	1.9	987	129	0.1
	Min	28.9	0.1	0.9	30	18.1	72.1	1.7	1.8	1.43	4.08	0.2	0	0.7	884	21.2	0
	Max	100	2.1	1.1	86	28.5	116	28	3.9	1.67	14.1	0.4	0.04	2.1	992	214	0.1
JUNE-23	Avg	38.4	0.9	1.4	71	24.4	124	7.4	2.8	1.59	2.59	0.4	0	1.9	987	129	0.1
	Min	28.9	0.1	0.9	30	18.1	72.1	1.7	1.8	1.43	4.08	0.2	0	0.7	884	21.2	0
	Max	100	2.1	1.1	86	28.5	116	28	3.9	1.67	14.1	0.4	0.04	2.1	992	214	0.1

JULY-24	Avg	35.9	0.4	1.4	88	24.4	150	3.3	1.8	1.32	3.64	0.3	0.07	1.7	984	95.1	0.1	0.1	0.07	0.1	0	-
	Min	0.9	0	1.1	80	22.3	68.3	0	0.4	0.78	0.73	0.1	0	0.8	979	0	0	0.1	0.01	0	0	-
	Max	58	2.3	1.6	93	26.5	194	14	8	4.66	8.16	1.2	0.07	2.6	987	161	0.3	0.4	0.31	0.4	0.2	-
AUG-24	Avg	24.4	0.5	1.4	94	22.9	141	5.2	2.1	1.42	22.4	0.3	0.01	4	982	22.5	3.6	0.1	0.09	0.1	0.1	0
	Min	2.04	0	1.1	79	21.3	71.4	0	0.4	0.73	0.4	0.1	0	2.1	979	8.84	2.7	0	0.03	0	0	0
	Max	98.3	1.1	1.6	109	26.4	183	19	5.2	3.35	151	0.4	0.03	10	985	63.7	3.9	0.2	0.14	0.2	0.2	0.1
SEPT-24	Avg	36.2	0.5	1.2	-	-	-	-	-	14.3	2.79	2	38.2	0.3	-	-	5.2	0.1	0.12	0.1	0.1	0.1
	Min	10.2	0.1	1.1	-	-	-	-	-	3.91	1.42	1.5	39.3	0.2	-	-	4.6	0.1	0.05	0.1	0.1	0
	Max	56.7	1.3	1.2	-	-	-	-	-	28.3	4.08	2.8	37.3	0.4	-	-	8	0.1	0.13	0.1	0.1	0.2
OCT-24	Avg	39.2	0.4	1.2	-	-	-	-	-	9.56	2.17	1.6	38.2	0.3	-	-	6.3	0.1	0.1	0.1	0.1	0
	Min	7.09	0	1.1	-	-	-	-	-	0.27	1.94	1	0.19	0.2	-	-	4.2	0	0.06	0	0.1	0
	Max	78	0.8	1.2	-	-	-	-	-	39.2	3.13	2.2	34.3	0.4	-	-	14	0.1	0.12	0.1	0.1	0.1
NOV-24	Avg	26.5	0.3	1.2	-	-	-	-	-	5.18	1.8	1.4	4.44	0.2	-	-	6.4	0.1	0.08	0.1	0.1	0
	Min	0.09	0	1.1	-	-	-	-	-	0	0.93	0.9	0	0.1	-	-	0.3	0	0.01	0	0	0
	Max	69	1.2	1.3	-	-	-	-	-	16.5	3.11	2	26.1	0.3	-	-	25	0.1	0.11	0.1	0.1	0
DEC-24	Avg	26	0.5	1.3	-	-	-	-	-	12.5	2.12	1.7	4.73	0.2	-	-	4.2	0.1	0.08	0.1	0.1	0
	Min	2.27	0	1.1	-	-	-	-	-	1.15	1.74	1.6	0.69	0.2	-	-	1.2	0	0.01	0	0.1	0
	Max	170	1.9	1.4	-	-	-	-	-	78.3	3.91	2.2	9.81	0.4	-	-	10	0.1	0.11	0.1	0.1	0.1
JAN-24	Avg	46.9	0.6	1.5	43	22.3	358	23	2.3	1.61	2.26	0.3	0	4.5	990	-	12	0.1	0.08	0.1	0.1	0
	Min	12.7	0.1	1.4	43	22.3	358	6.4	1.9	1.5	0.83	0.2	0	4.5	990	-	1.8	0	0.04	0	0.1	0
	Max	122	1.7	1.7	45	22.5	358	60	3.5	1.76	0.74	0.4	0	4.5	990	-	20	0.1	0.11	0.1	0.1	0.1
FEB-24	Avg	71.7	0.8	1.7	38	2.72	1.58	1.2	0.3	22.8	0.06	0.1	0.07	0.1	0.03	-	-	-	-	-	-	-
	Min	44.7	0.1	1.6	22	1.91	1.3	0.1	0.2	11.5	0.04	0.1	0.05	0.1	0.06	-	-	-	-	-	-	-
	Max	110	1.6	1.7	33	3.67	1.72	3.6	0.4	35.4	0.27	0.1	0.09	0.1	0.04	-	-	-	-	-	-	-
MAR-24	Avg	70.2	1	1.8	43	21.7	220	34	2.9	1.6	4.28	0.3	0.02	8.7	990	66.5	8.4	0.1	0.1	0.1	0.1	0.1
	Min	38.8	0.1	1.7	37	16.8	151	19	1.9	1.5	0.17	0.2	0	6.9	996	2.24	0	0	0.04	0	0.1	0
	Max	108	2.9	1.9	85	24.7	241	54	4.6	1.8	13.7	0.4	0.05	14	992	142	24	0.1	0.14	0.1	0.1	0.1

8.5 NATIONAL WATER QUALITY MONITORING PROGRAMME (NWMP)

Assessment of the status of water quality of the water bodies is one of the most important activities of the State Board. Water quality data not only help to ascertain the nature and extent of the requirement for pollution control measures but also indicates its impact on water quality. The Central Pollution Control Board under the National Water Quality Monitoring Programme (NWMP) is sponsoring the water monitoring programme of 121(one hundred twenty one) water sources while the Board is sponsoring 3(three) water sources under the State Water Quality Monitoring Programme

The monthly results of these 124 locations are disseminated on the Board's website [mpcb www.mpcb.mizoram.gov.in](http://mpcb.www.mpcb.mizoram.gov.in) and also on the Central Pollution Control Board online data

portal Environmental Water Quality Data Entry System (EWQDES), the water quality data/ results of the monitored water sources are listed below:

8.5.1. Table : Average Water Quality Data 2023-2024

Sl. No	Station Code	CORE PARAMETERS										
		Water Temp (°C)	D.O (mg/L)	pH	Conductivity µs/cm	B.O.D (mg/L)	Nitrogen Nitrate (mg/L)	Nitrogen Nitrate (N-N _{o3}) (mg/L)	Faecal Coliform MPN	Total Coliform MPN	Faecal Streptococcus MPN	E.Coli MPN
		1	2	3	4	5	6	7	8	9	10	11
1	2050	22.17	6.46	7.851	191.7	0.87	0.8606	0.0171	265	1690	22.33	-
2	2051	22.25	6.51	8.058	181.3	0.82	0.5882	0.0198	258	1690	22.33	-
3	2052	21.75	6.18	7.818	245.6	1.96	1.2419	0.0219	281	1967	770.3	-
4	2053	21.75	6.01	7.91	248.5	0.96	1.2052	0.0584	281	1967	410.3	-
5	2054	22	4.9	5.85	626	1.15	7.503	0.0345	-	-	-	-
6	2055	19.5	4.3	6.65	624.5	1	7.308	0.0075	-	-	-	-
7	3709	21.25	7.81	7.86	200.5	1.21	1.2231	0.0194	151	1627	328.3	-
8	3710	21.67	6.8	8.179	283.6	0.97	6.0181	0.0294	-	-	-	-
9	3711	22.11	5.86	7.68	77.74	0.94	0.5014	0.006	-	-	-	-
10	3712	22.08	6.62	8.198	201.9	1.5	0.5977	0.0427	241	1765	29.83	-
11	3713	19.25	6.47	6.494	508.1	1.19	10.616	0.1301	-	-	-	-
12	3714	16.5	7.33	6.5	41.08	1.11	0.666	0.0511	-	-	-	-
13	3715	21.75	6.33	8.141	222.1	0.99	1.4028	0.0189	-	-	-	-
14	3716	21.83	5.98	8.184	220.5	0.94	1.2658	0.0218	-	-	-	-
15	3717	21.67	6.05	8.113	226.3	1.18	1.5598	0.0251	-	-	-	-
16	3718	22.33	3.87	7.938	740.6	5.32	7.7286	0.5689	376	1965	1090	-
17	3719	20.67	8.53	7.45	144.3	1.2	0.5598	0.0131	-	-	-	-
18	3720	20.67	8.16	6.875	141.5	1.14	0.5142	0.0168	-	-	-	-
19	3721	19.58	4.69	7.707	722.1	5.49	7.4347	0.8197	108	2133	920	-
20	3722	20.42	7.15	7.377	432.8	1.87	6.3177	0.1113	-	-	-	-
21	3723	22.17	8.69	7.1	68.25	1.29	0.5999	0.0141	-	-	-	-
22	3724	19.33	7.75	7.638	151.7	1.06	0.8293	0.0124	-	-	-	-
23	3725	23	7.7	7.2	398	0.9	6.415	0.0395	-	-	-	-
24	3726	22	4.3	6.3	598	1.25	7.536	0.0226	-	-	-	-
25	3727	20	8.5	6.85	461.5	0.9	8.072	0.0215	-	-	-	-
26	3728	20	7.25	6.55	244	1.4	0.644	0.01	-	-	-	-
27	3729	20	2.6	7.1	593	1.3	0.303	0.023	-	-	-	-
28	3730	23	3.95	6.4	113.5	0.3	4.883	0.0315	-	-	-	-
29	3731	22	1.55	6.65	676.5	0.9	7.271	0.1527	-	-	-	-
30	3732	23	1.55	6.3	655	0.7	2.907	0.7985	-	-	-	-
31	3733	21.5	2.05	6.65	660	0.9	7.086	0.0235	-	-	-	-
32	3734	18	7.43	6.808	143.1	1.12	3.0289	0.0105	-	-	-	-
33	3735	19.83	7.12	6.742	246.9	1.18	4.1869	0.014	-	-	-	-
34	3736	22.08	7.53	7.525	130.8	1.14	0.7185	0.008	-	-	-	-
35	3737	22.5	7.2	6.85	151	0.9	2.288	0.0095	-	-	-	-

36	3738	21.5	6.75	7	104	0.9	2.284	0.0165	-	-	-	-
37	3739	23	3.1	6.3	157			0.104	-	-	-	-
38	3740	22.42	6.05	7.017	131	1	0.7395	0.0272	-	-	-	-
39	3741	22.5	5.6	7.2	344	0.9	9.409	0.01	-	-	-	-
40	3742	22	4.05	6.15	127	1.5	0.481	0.0115	-	-	-	-
41	3743	20.17	7.58	7.233	72	1.05	0.4941	0.025	-	-	-	-
42	3744	22.33	7.78	7.487	205.2	1.13	0.8998	0.0334	-	-	-	-
43	3745	18.5	7.8	6.4	318.5	1.5	9.322	0.009	-	-	-	-
44	3746	19.83	6.81	7.2	160	1.14	1.1769	0.0125	-	-	-	-
45	3747	18.92	7.38	12.57	148.5	1.03	0.4071	0.0123	-	-	-	-
46	3748	18	6	7.8	122	1.2	3.952	0.008	-	-	-	-
47	3749	20.83	7.18	7.542	144.4	1.08	1.3321	0.0085	-	-	-	-
48	3750	22.42	8.02	7.6	201.3	1.17	1.0373	0.0153	-	-	-	-
49	3751	21.83	8.3	7.517	248.1	1.06	0.7949	0.0119	-	-	-	-
50	3752	18.17	7.23	7.008	249.4	1	2.3542	0.0144	-	-	-	-
51	3753	19	7.4	6.6	107	0.4	2.046	0.009	-	-	-	-
52	3754	20.08	6.14	7.417	180.9	1.12	0.8112	0.03	-	-	-	-
53	3755	24.67	6.45	7.3	293.8	1.19	0.6573	0.2322	-	-	-	-
54	3756	18.5	7.06	7.492	239.9	0.64	1.2612	0.0352	-	-	-	-
55	3757	18.17	6.7	7.25	118.8	0.67	0.4873	0.0152	-	-	-	-
56	3758	18	2	6.9	295	0.47	0.454	0.002	-	-	-	-
57	4114	22.17	4.08	7.844	820.7	6.14	7.2163	0.6805	104	2057	1090	-
58	4115	22.33	3.03	7.61	757.6	16.5	4.8597	0.3608	215	2133	1207	-
59	4116	20.42	7.33	7.448	240.6	0.83	4.1797	0.0166	-	-	-	-
60	4117	20.75	8.02	7.417	110.7	1.23	0.4874	0.0124	-	-	-	-
61	4118	24	6.92	7.275	108.3	1.18	0.7321	0.0095	-	-	-	-
62	4119	22.75	6.66	7.05	130.8	1.03	0.6084	0.007	-	-	-	-
63	4120	21.08	6.4	7.383	208.9	1.03	0.829	0.0289	-	-	-	-
64	4121	19.92	6.33	6.917	167.4	1.18	0.7275	0.0487	-	-	-	-
65	4122	23.18	7.85	7.291	156.1	1.11	0.6154	0.0297	-	-	-	-
66	4123	24.75	8.75	7.658	176.9	1.11	0.4495	0.0218	-	-	-	-
67	4124	21	6.85	6.35	393.5	1	9.891	0.0085	-	-	-	-
68	4125	18.08	6.49	7.142	180.9	0.56	1.4114	0.0196	-	-	-	-
69	4126	18	5.5	7.3	183	0.56	6.919	0.01	-	-	-	-
70	4127	19	7.8	6.2	375	0.8	9.409	0.021	-	-	-	-
71	4128	18.5	5.5	6.15	361.5	0.8	9.409	0.02	-	-	-	-
72	4129	22	5.79	7.5	175.5	1.3	0.178	0.082	-	-	-	-
73	4130	22.5	5.88	6.858	116.1	1.02	0.4534	0.0187	-	-	-	-
74	4131	22	5.98	7.617	156.4	0.92	0.7912	0.012	-	-	-	-
75	4132	21.58	5.91	6.883	60.5	1.11	1.0273	0.0069	-	-	-	-
76	4133	22.5	7.65	7.3	219	1.15	0.113	0.016	-	-	-	-
77	5513	25	6.44	6.783	101.7	1.19	0.5948	0.0122	-	-	-	-
78	5718	20	7.88	7.883	223.7	1	0.7816	0.0142	-	-	-	-
79	5719	19.5	7.09	7.448	144.2	0.79	4.8762	0.0147	-	-	-	-
80	5720	22.5	5.88	7.814	158.9	0.71	0.2718	0.0094	-	-	-	-
81	5721	21.82	5.53	7.766	159.8	0.7	0.3461	0.0213	-	-	-	BDL

82	5722	18.91	7.98	6.782	30.82	1.06	0.3979	0.0138	-	-	-	-
83	5723	20.64	7.95	8.052	276.1	0.96	1.5748	0.029	-	-	-	-
84	5724	22	7.6	7.625	200.5	1.02	1.2699	0.0169	-	-	-	-
85	5725	23.09	7.15	7.355	119.4	1.12	0.9821	0.0525	-	-	-	-
86	5726	21.82	6.88	7.127	153.9	1.07	0.1986	0.0067	-	-	-	-
87	5727	19.55	6.96	7.373	149.9	0.96	0.3406	0.0212	-	-	-	-
88	5728	22.27	5.46	7.409	53.64	1.12	0.529	0.0073	-	-	-	-
89	5729	22.27	5.65	6.555	42.45	1.19	1.2814	0.0144	-	-	-	-
90	5730	21.73	5.71	6.618	71.27	1.19	1.1428	0.0155	-	-	-	-
91	5731	17.64	7.93	6.527	126.1	1.14	2.9042	0.006	-	-	-	-
92	5732	24.55	5.91	6.764	45.09	1.21	0.705	0.0201	-	-	-	-
93	5733	23.22	7.54	7.456	162.9	1.19	0.772	0.0303	-	-	-	-
94	5734	20.73	6.75	7.536	121.9	1.12	0.747	0.0096	-	-	-	-
95	5735	20.73	7.37	7.7	132.3	1.14	0.6751	0.0088	-	-	-	-
96	5736	22	6.11	7.455	209.9	1.16	1.805	0.0225	-	-	-	-
97	5737	22	5.87	7.091	123.3	1.16	1.1153	0.0184	-	-	-	-
98	5738	22.18	7.69	7.182	157.9	1.08	1.0193	0.0145	-	-	-	-
99	5739	18.45	7.26	7.218	125.7	0.72	0.591	0.0128	-	-	-	-
100	5740	18.05	6.81	7.418	153.6	0.44	0.5632	0.018	-	-	-	-
101	5741	18	5.76	6.845	57.27	0.56	1.0652	0.0149	-	-	-	-
102	5742	18.55	6.86	6.855	113.7	0.95	1.2872	0.0415	-	-	-	-
103	5743	24.2	5.98	7.05	153	1.23	0.7583	0.0131	-	-	-	-
104	5744	18.55	6.93	6.964	136.9	1.05	1.9094	0.0319	-	-	-	-
105	5745	17.82	7.05	7.036	159.2	1.05	2.2345	0.0078	-	-	-	-
106	5746	20.09	6.28	7.036	128.9	1	1.3631	0.0193	-	-	-	-
107	5747	20.73	6.74	7.382	191.8	0.96	0.8336	0.0118	-	-	-	-
108	5748	19.64	8.66	7.227	122.5	1.09	0.7085	0.0314	-	-	-	-
109	5749	20.18	8.6	7.436	75.09	1.06	0.7446	0.0265	-	-	-	-
110	5750	27.82	6.93	7.1	159.7	1.09	0.8099	0.0575	-	-	-	-
111	5751	29.27	7.02	7.127	237.3	1.16	0.6318	0.0273	-	-	-	-
112	5752	20.91	7.61	7.273	149	1.08	0.773	0.0201	-	-	-	-
113	5753	17.55	7.86	7.527	81.27	1.13	0.3185	0.011	-	-	-	-
114	5754	20.6	7.5	7.382	110.1	1.06	0.5355	0.0155	-	-	-	-
115	5755	21.3	8.24	7.7	135.1	1.14	0.6113	0.0121	-	-	-	-
116	5756	24.73	8.13	7.155	130.6	1.13	2.0871	0.0279	-	-	-	-
117	5757	22.36	7.04	6.818	33.27	1.26	2.2706	0.0312	-	-	-	-
118	5758	22.73	8.78	7.636	132	0.98	0.4516	0.0092	-	-	-	-
119	5759	25.18	8.88	7.736	120.4	1.02	0.4338	0.0116	-	-	-	-
120	5760	23.18	8.6	7.809	102.5	1.2	0.2661	0.0065	-	-	-	-
121	5761	19.82	7.98	7.409	103.6	1	0.6017	0.0131	-	-	-	-
1	MPCB 1	23.18	2.45	7.757	785.4	18.1	6.4932	0.4902	-	-	-	-
2	MPCB 2	15.67	7	8.25	171.5	0.8	1.2733	0.001	-	-	-	-
3	MPCB 3	20	7.29	7.685	137.5	0.9	1.215	0.002	-	-	-	-
4	MPCB 4	20.67	0.87	8.053	988	23.3	11.948	0.192	-	-	-	-

Sl.No	Station Code	GENERAL PARAMETERS														
		Turbidity (NTU)	Total Alkalinity (mg/L)	Chlorides (mg/L)	Total Nitrogen (mg/L)	Ammonia-N (mg/L)	Total Hardness (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	TDS (mg/L)	TSS (mg/L)	Total Phosphate (mg/L)	Boron (mg/L)	K (mg/L)	Sulphate
		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	2050	52.88	67.26	10.46	0.011	0.29	243.9	19.2	18.5	8.42	153	23.33	0.187	0.944	1.611	3.06
2	2051	52.98	69.42	9.544	0.2	0.232	82.767	18.2	8.99	6.519	114.1	16.5	0.125	0.913	1.53	3.25
3	2052	18.42	95.92	10.31	0.011	0.291	89.65	22.7	7.38	10.04	159.7	27.73	0.008	0.885	1.894	3.55
4	2053	19.82	85.23	17.51	0.3	0.228	91.417	22.8	8.32	10.84	166.3	24.85	0.163	0.858	1.894	3.16
5	2054	1.48	39.9	91.65	-	0.196	57	19.6	1.9	26.25	-	-	0.165	0.539	7	6.77
6	2055	2.1	107.8	79.8	-	0.653	150	82.4	6.7	25.25	-	-	0.086	1.324	4	8.85
7	3709	34.83	82.04	10.61	4.67	0.261	86.185	24.7	8.12	6.7	136.8	34.33	1.027	0.896	2.03	4.06
8	3710	18.93	98.25	31.92	-	0.287	108.2	30.4	7.74	10.92	-	-	0.423	0.696	2.608	2.89
9	3711	5.767	29.41	15.28	-	0.122	49.556	10.1	5.8	2.222	-	-	0.193	0.825	0.626	2.15
10	3712	13.72	69.14	12.93	-	0.241	75.773	18.1	7.39	6.862	159.6	19.64	0.161	0.876	1.985	3.45
11	3713	19.81	48.81	60.28	-	0.557	124.09	36.3	10.3	18.56	-	-	0.189	1.008	5.408	2.5
12	3714	1.567	23.32	8.942	-	0.172	45.835	10.4	6.76	3.616	-	-	0.146	1.017	1.885	2.98
13	3715	26.22	86.75	15.11	-	0.28	81.385	21.4	8.15	10.71	-	-	0.125	0.974	1.885	3.31
14	3716	12.69	103.4	9.336	-	0.264	79.142	19.5	10.7	8.31	9.75	-	0.153	0.834	1.712	2.75
15	3717	21.23	99.9	12.61	-	0.336	87.692	23.6	6.94	10.58	180	18	1.654	0.956	1.894	3.18
16	3718	36.91	212.2	94.87	-	2.255	184.55	57.1	10.1	34.68	478.5	40.1	0.807	1.086	10.57	5.45
17	3719	36.68	73.82	10.43	-	0.263	82.585	19.9	7.96	6.017	410	110	6.18	1.195	2.105	2.6
18	3720	34.29	71.11	9.392	-	0.279	79.949	23.7	8.23	5.933	121.8	23.4	0.132	1.372	1.34	2.1
19	3721	51.88	180.7	84.55	-	0.581	170.88	51.6	12	29.93	417	41.53	0.678	1.385	10.43	3.63
20	3722	29.34	101.8	65.45	4.67	0.354	123.9	34	9.4	17.92	-	-	0.193	1.476	5.605	4.34
21	3723	18.46	43.41	8.392	-	0.099	66.091	12.2	8.54	3.819	-	-	0.114	1.373	1.104	2.01
22	3724	7.733	142.4	7.812	4.67	0.183	86.143	21.8	7.78	5.996	-	-	0.141	0.987	1.787	3.01
23	3725	1.8	55.3	48.4	-	1.758	118	34.8	7.45	17	-	-	0.211	0.725	2	9.76
24	3726	1.48	51.1	86.85	-	0.157	116	35.2	6.7	24.25	-	-	0.089	0.833	7	3.48
25	3727	1.85	85.2	91.55	-	1.375	114	38	11.8	19.75	-	-	0.083	0.735	2.5	2.87
26	3728	2.85	26.58	36.7	-	0.385	89	23.8	5	9.75	-	-	0.207	0.833	0.5	12.4
27	3729	3.4	312	7.7	-	0.193	120	89	28.9	12.9	-	-	0.203	1.177	2	2.2
28	3730	3.8	37.9	19.15	-	0.107	51	19	6.2	4.25	-	-	0.051	0.441	0.5	3.11
29	3731	5.5	144.9	81.8	-	1.458	193	89.2	10.8	28	-	-	0.036	0.598	2	2.69
30	3732	8.8	181.7	91.8	-	0.984	205	58.4	14.2	16.25	-	-	0.031	0.686	2.5	0.98
31	3733	8.5	78.45	31.85	-	0.286	100	34.8	4.55	9.25	-	-	0.085	1.128	0.5	1.1
32	3734	2.633	74.02	14.38	0	0.165	68	12.2	7.09	4.46	89.67	25.89	0.153	0.99	1.076	3.49
33	3735	6.617	77.7	19.72	-	0.188	92.667	19.4	10.7	6.018	120.7	22.22	0.115	1.328	1.695	4.54
34	3736	9.725	78.88	28.61	-	0.122	74	15.8	8.29	4.636	70.22	19.44	0.095	0.869	1.298	3.13
35	3737	1.85	81.1	17.2	-	0.083	68	12.8	8.65	6.25	-	-	0.049	0.098	0.5	6.47
36	3738	3.7	89.65	15.75	-	0.125	73	14.8	8.65	4.75	-	-	0.162	0.343	1	1.65
37	3739	100	98.3	7.4	-	0.107	58	17.8	3.4	6.8	-	-	0.193			
38	3740	4.367	60.51	11.95	-	0.189	88.417	21	19.8	4.13	-	-	0.116	0.797	0.94	3.68
39	3741	1.48	73.7	44.55	-	0.192	112	29.8	9.4	12.5	-	-	0.122	0.343	5	3.72
40	3742	32	79.4	11.3	-	0.129	54	13.4	6	8	-	-	0.097	1.768	0.5	4.45
41	3743	2.092	43.99	8.083	-	0.182	56.983	12.1	6.23	3.861	-	-	0.238	0.711	1.288	3.79
42	3744	43.91	70.66	7.832	0.302	12.04	74.35	20.5	6.68	71.08	107.1	24.24	0.238	0.941	1.831	4.69
43	3745	19.9	81.75	46.8	0.14	35.93	72.8	28.7	6.95	14	-	0.101	0.245	1	8.919	
44	3746	15.59	80.4	16.96	0.161	6.778	94.667	24	9.18	4.189	-	0.117	0.243	0.848	1.479	2.76

45	3747	31.57	65.8	15.2	0.06	6.668	86.967	18.7	10.4	4.289	-	0.102	0.217	0.995	1.419	2.12
46	3748	68.5	12.4	-	0.063	40	8.8	4.3	4.5	-	-	0.143	0.981	0.5	1.281	
47	3749	9.3	53.14	11.59	0.063	14.28	75.567	17.8	8.18	7.905	56.11	12.79	0.234	0.905	2.01	2.82
48	3750	110.7	79.87	8.61	0.27	20.14	95.067	25.7	9.32	6.708		0.092	0.316	0.875	1.908	5.23
49	3751	26.46	75.5	30.64	0.103	22.18	91.75	23.8	9.54	9.236		0.058	0.318	1.008	1.474	6.29
50	3752	9.658	78.77	36.72	0.115	3.451	89.667	24.2	7.2	17.53	151.7	12.68	0.271	1.356	2.178	4.5
51	3753	6.7	31.55	11.05	-	0.09	53	8.8	7.45	4.5	-	-	0.053	1.422	0.5	6.71
52	3754	175.7	94.06	11.72	-	0.511	115.17	28.5	10.6	5.65	142.2	26	0.184	1.207	1.695	3.19
53	3755	25.9	131.4	17.19	0.109	12.81	137.83	36.5	11.5	6.936		0.079	0.198	1.321	4.748	1.95
54	3756	17.62	102.6	15.6	-	0.198	113	28.1	10.3	9.871	186.8	39.14	0.133	1.076	1.885	5.56
55	3757	7.808	61.83	11.18	-	0.16	67.417	14.5	7.53	9.077	106.3	13.43	0.1	0.913	1.667	3.23
56	3758	3	185.2	15.3	-	0.034	180	44	16.8	12	-	-	0.169	0.539	0.5	1.4
57	4114	16.73	225.4	94.4	-	1.367	210.08	55.8	17	34.53	-	-	0.735	1.585	10.34	6.08
58	4115	66.82	232.3	73.73	-	1.205	170.55	49.3	11.4	25.58	477.8	70.83	1.976	1.59	7.798	6.38
59	4116	1.592	63.04	25.96	-	0.491	71.667	21.6	4.88	9.583	-	-	0.108	1.016	2.033	3.77
60	4117	2.1	56.35	12.84	-	0.085	73.167	16.8	7.53	3.128	-	-	0.082	0.889	0.885	1.74
61	4118	2.192	59.92	8.3	-	0.139	87	14.2	12.4	4.133	-	-	0.113	0.962	1.431	2.89
62	4119	2.225	62.92	6.158	-	0.133	92.5	16.8	12.1	3.344	-	-	0.09	0.95	1.577	2.94
63	4120	119.4	95.63	11.96	4.67	0.722	114.08	27.4	10.9	7.502	-	-	0.183	0.987	2.286	3.23
64	4121	138.1	80.03	11.28	4.67	0.601	103.25	24.1	10.3	5.483	-	-	0.184	1.097	1.65	3.11
65	4122	41.39	72.65	22.35	-	0.162	77.455	22.5	5.1	5.124	109.6	37.6	0.144	0.938	1.777	2.06
66	4123	128.5	96.05	10.12	-	0.321	82.167	20.8	7.28	5.065	-	-	0.162	1.076	1.213	4.11
67	4124	3.65	55.15	50.3	-	0.096	125	36.4	8.15	17.75	-	-	0.05	0.784	4	1.59
68	4125	15.68	86.22	22.82	-	0.245	95.417	22.7	9.31	8.698	-	-	0.107	1.287	2.191	2.61
69	4126	2	43.3	22	-	0.07	62	9.5	5.65	6.75	-	-	0.453	1.275	1	4.33
70	4127	2.8	42.9	49.35	-	0.06	115	26.4	11.8	14	-	-	0.054	0.588	1	3.17
71	4128	3.6	52.8	49.35	-	0.067	118	28.8	11.1	13.5	-	-	0.056	0.588	1	3.17
72	4129	1	72.85	6	-	0.131	85	24	6	7.5	-	-	0.143	0.343	0.5	1.59
73	4130	67.16	64.57	8.475	-	0.27	72.5	16.6	7.47	5.519	-	-	0.183	0.849	1.849	3.53
74	4131	8.617	62.76	12.81	0.074	6.126	69.7	17	7.32	4.436	-	-	0.104	0.806	0.985	3.93
75	4132	2.95	39.14	12.52	-	0.156	59.25	13	7.77	2.288	-	-	0.129	1.011	1.067	3.58
76	4133	4.4	67	22.65	-	0.098	100	22	10.8	7.75	-	-	0.04	0.784	1	2.38
77	5513	2.45	64.28	8.458	0	0.206	69.083	17.3	6.23	4.543	-	-	5.075	0.956	1.423	1.8
78	5718	6.85	111.8	15.3	4.67	0.284	139.45	35.6	12.1	8.022	86	4.8	0.089	0.784	1.848	5.68
79	5719	10.66	46.94	16.39	0	0.247	59.463	12.9	10.4	5.775	-	-	0.093	0.944	1.394	4.35
80	5720	1.708	73.01	12.38	-	0.133	87.392	20.2	8.9	5.408	-	-	0.157	0.981	1.439	2.27
81	5721	1.664	71.83	14.4	-	0.155	87.7	18.4	9.99	5.626	-	-	0.232	0.869	1.485	2.52
82	5722	16.56	22.27	8.327	-	0.226	37.818	7.16	4.81	1.227	-	-	0.109	0.938	0.94	1.81
83	5723	31.61	109	20.63	9.7	0.365	121.62	35.8	7.81	9.933	-	-	0.149	0.978	2.931	3.5
84	5724	22.03	80.97	16.8	-	0.212	102.35	26.7	8.69	7.251	-	-	0.135	0.858	1.795	3.21
85	5725	41.09	65.16	10.24	-	0.318	73.636	15.4	8.45	3.563	-	-	0.131	0.739	1.124	3.29
86	5726	3.445	85.21	9.7	-	0.094	103.18	23.1	10.9	3.758	-	-	0.124	0.553	1.122	3.45
87	5727	6.155	79.41	10.45	-	0.073	89	17.7	11	3.692	-	-	0.073	1.404	1.031	2.34
88	5728	5.818	34.98	10.09	-	0.125	62	10.5	8.56	2.162	-	-	0.146	1.324	0.931	2.48
89	5729	7.727	32.65	9.564	-	0.231	52.636	10.2	7.19	1.763	-	-	0.101	1.134	1.204	2.75
90	5730	9.864	43.86	12.97	-	0.325	74.091	12.2	10.5	3.194	-	-	0.133	1.236	1.195	2.28
91	5731	6.627	76.89	15.78	-	0.074	63.182	13	7.38	5.956	-	-	0.121	0.975	1.349	3.84
92	5732	6.964	37.75	10.36	4.67	0.169	58.727	8.84	8.46	1.753	-	-	0.121	1.229	0.976	3.19
93	5733	65.49	82.03	24.53	-	0.337	79.111	21.4	6.21	4.379	145	7	0.224	148.1	1.739	1.81
94	5734	12.17	59.54	11.75	-	0.261	78.273	15.7	9.41	4.219	-	-	0.101	1.06	1.067	5.22
95	5735	5.145	70.65	8.909	-	0.132	87.545	18.5	9.98	4.083	-	-	0.087	0.95	0.895	5.24
96	5736	25.35	80.54	18.45	-	0.285	98.182	24.2	9.49	6.975	-	-	0.111	1.214	2.736	3.6
97	5737	16.71	59.24	10.38	-	0.248	94.909	22.2	9.47	4.225	-	-	0.096	1.158	1.968	4.11
98	5738	66.43	80.83	12.27	4.67	0.274	83.455	17.8	9.41	5.588	-	-	0.119	0.935	1.805	3.14
99	5739	5.845	78.76	9.173	-	0.123	82.182	17	9.57	6.285	-	-	0.138	1.005	1.385	2.54

100	5740	4.764	172	11.21	-	0.061	77.273	15.9	9.05	5.634	-	-	0.092	1.06	0.94	3.42
101	5741	38.15	39.94	8.436	-	0.369	44.107	7.33	6.33	2.126	-	-	0.123	1.385	1.249	2.5
102	5742	13.31	50.48	13.8	-	0.152	69.273	15.8	7.22	3.758	-	-	0.168	1.156	1.749	2.43
103	5743	15.62	77.69	15.88	6.8	0.109	88.807	43.4	12.1	5.245	-	-	0.124	1.054	1.966	2.54
104	5744	30.07	58.55	15.74	9.34	0.214	78.273	15.8	9.35	5.896	-	-	0.12	1.205	2.035	4.12
105	5745	10.41	67.32	18.78	-	0.124	75.636	16.7	8.15	4.46	-	-	0.11	1.093	1.849	3.21
106	5746	17.24	71.76	13.59	4.67	0.169	89.818	19.9	9.64	5.118	-	-	0.135	0.809	1.395	2.68
107	5747	29.16	103.6	7.355	BDL	0.145	100.27	25.8	8.56	5.977	-	-	0.144	0.956	1.749	3.03
108	5748	131	73.77	8.182	BDL	0.331	96.455	18.9	11.8	4.346	-	-	0.138	0.956	1.195	2.72
109	5749	17.75	43.42	10.61	-	0.503	67.182	13.2	8.21	3.583	-	-	0.167	1.183	1.031	2.35
110	5750	8.409	79.59	7.282	4.67	0.163	103.64	23.2	11	3.395	-	-	0.154	1.422	1.795	3.36
111	5751	10.26	107.3	6.964	-	0.383	130.09	29.8	13.4	4.229	-	-	0.137	0.98	1.167	5.93
112	5752	7.6	85.89	11.38	-	0.253	85.273	20	8.5	4.294	-	-	0.135	0.889	1.204	3.31
113	5753	1.791	63.14	8.191	-	0.106	64.455	13.7	7.33	5.115	-	-	0.143	0.837	0.985	3.52
114	5754	7.055	74.89	8.518	-	0.136	71.182	12.5	9.58	5.265	-	-	0.102	1.287	1.204	2.81
115	5755	6.61	80.49	13.73	-	0.158	67	13	9.66	9.37	-	-	0.12	1.071	2.024	5.22
116	5756	69.91	83.05	8.7	-	0.472	91.818	18.1	11.2	4.987	-	-	0.162	1.309	1.786	3.91
117	5757	65.1	54.59	9.018	-	0.615	42.818	7.51	5.78	2.128	-	-	0.153	1.226	1.067	5.05
118	5758	13.34	68.35	8.618	-	0.183	80.273	14.6	10.6	5.735	-	-	0.14	1.08	1.213	1.91
119	5759	69.13	65.37	7.273	-	0.108	66.273	13.3	7.92	4.622	-	-	0.134	0.883	1.395	3.99
120	5760	8.127	54.61	6.255	-	0.097	71.636	13.7	8.98	4.002	-	-	0.131	1.015	0.849	2.24
121	5761	14.89	57.86	6.545	-	0.187	65.364	13.1	7.86	5.447	-	-	0.132	0.741	1.122	2.93
1	MPCB 1	72.41	236.5	82.65	-	2.081	190.89	50.5	24.5	28.6	-	-	2.386	2.268	10.09	5.72
2	MPCB 2	2.333	91.47	12.78	-	0.1	125.73	33.9	10.1	6	-	-	0.077	0.974	3.11	4.54
3	MPCB 3	8.25	81.8	8.8	-	0.11	102.64	18.8	13.5	6.5	-	-	0.605	0.809	2.415	3.23
4	MPCB 4	117	350.7	122.9	-	0.257	247.87	49.5	30.6	15.5	-	-	6.794	2.207	10.08	6

Sl. No	Station Code	MET-4L											
		Arsenic (Total)(mg/L)	Cadmium(mg/L)	Copper(mg/L)	Lead(mg/L)	Chromium (Total) (mg/L)	Nickel(mg/L)	Zinc(mg/L)	Mercury (mg/L)	Iron (Total) (mg/L)	Aluminium (mg/L)	Cobalt(mg/L)	Manganese (mg/L)
		27	28	29	30	31	32	33	34	35	36	37	38
1	2050	BDL	BDL	BDL	BDL	BDL	BDL	0.003	BDL	0.477	0.7881	BDL	BDL
2	2051	BDL	BDL	BDL	BDL	0.0009	BDL	0.0322	BDL	BDL	BDL	BDL	0.0344
3	2052	0.0068	BDL	BDL	BDL	0.0700	BDL	0.0224	BDL	0.128	BDL	BDL	0.053
4	3709	0.1504	BDL	BDL	BDL	0.0509	0.0046	0.0113	BDL	0.113	BDL	BDL	BDL
5	3710	-	-	BDL	-	BDL	BDL	0.0188	-	0.133	-	BDL	BDL
6	3718	0.0058	BDL	0.0238	0.139	BDL	0.0096	0.0287	0E-05	0.004		BDL	BDL
7	3719	0.7426	BDL	BDL	-	0.008	0.001	0.0212	-	0.012	1.3453	0.0188	BDL
8	3721	0.0066	BDL	0.0262	0.153	-	0.0098	0.0564	0.0002	1.342	-	BDL	0.316
9	3735	-	BDL	BDL	-	BDL	BDL	0.021	0.3487	BDL	0.4868	BDL	BDL
10	3744	0.0004	0.0045	BDL	-	0.0045	BDL	0.041		0.018	BDL	BDL	0.1032
11	3746	BDL	BDL	-	BDL	BDL	BDL	BDL	0.5399	1.643	BDL	BDL	-
12	3751	-	-	BDL	-	BDL	0.0318	0.0201	-	0.329	-	BDL	BDL
13	3752	-	BDL	BDL	-	BDL	BDL	0.123	BDL	0.638	0.57	BDL	BDL
14	3754	BDL	BDL	BDL	-	0.0597	-	0.0013	BDL	0.047	0.2927	0.0238	BDL
15	3756	BDL	BDL	BDL	-	0.0522	BDL	0.0021	BDL	0.109	0.0921	0.0133	BDL
16	3757	-	BDL	BDL	-	BDL	BDL	BDL	BDL	0.267	BDL	BDL	BDL
17	4115	0.0052	BDL	0.0251	0.142	-	0.0781	0.0173	0.0003	0.552	-	BDL	0.0979
18	4120	0.0001	BDL	BDL	-	0.0084	BDL	0.012	BDL	0.029	0.4698	0.0389	BDL
19	4121	BDL	BDL	BDL	-	0.0572	BDL	0.0028	BDL	0.104	0.2387	0.0266	BDL
20	4130	0.0419	-	-	-	0.0956	0.0112	0.0716		0.018	0.862		
21	5718	0.027	BDL	BDL	-	0.0714	0.0057	0.0247	BDL	0.139	BDL	BDL	BDL
1	MPCB 1	0.0053	BDL	0.0298	0.142	-	0.0806	0.0231	0.0002	0.216	-	BDL	0.1356

8.5.2. Noise Monitoring :

For the regulation and control of noise producing and generating sources, Central Govt. has framed 'The Noise Pollution (Regulation and Control) Rules, 2000' and the ambient noise standards prescribed is given below:

Table : Ambient Noise Standards

Area Code	Category of area/zone	Limits in dB(A) leq*	
		Day time	Night time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence zones	50	40
*dB(A) Leq denotes the time weighted average of the levels of sound in decibels on scale A which is related to human hearing			

For a number of years, regular assessment of noise could not be carried out by the Board due to lack of facilities and manpower constraints. Noise level assessment was carried out only on random basis within the city and during festival celebrations such as Christmas, New Year and Deepavali as per the protocol of CPCB. Although MPCB has managed to initiate noise monitoring on a more regular basis by establishing noise monitoring network within Aizawl city at four locations such as Khatla, Dawrpui, Laipuitlang and Bawngkawn. The average noise level during Jan, 2023- December, 2023 is represented below:

The average level of noise during 2023-2024 for residential as well as commercial areas are as follows:

LOCATION	DAY			Night		
	Lmin	Lmax	Leq dB (A)	Lmin	Lmax	Leq dB (A)
Khatla- Residential	28.5	64.56	54.25	22.1	49.25	50.25
Laipuitlang -Residential	26.55	57.23	49.56	23.24	49.87	44.25
Bawngkawn- Commercial	32.21	64.25	62.24	31.5	58.52	52.87
Dawrpui- Commercial	37.52	69.47	57.26	42.21	59.29	49.58

Table: Average Noise Level during 2023-24

8.6. INDUSTRIAL POLLUTION CONTROL & CONSENT MANAGEMENT

8.6.1. Industrial Pollution Control:

Various pollution control measures are required to be taken up by industries to ensure that emissions and effluents are as per the standards. This largely consists of ensuring that

- (i) Effluents and emissions are treated before their release into the environment and
- (ii) These meet the quality standards laid down by CPCB.

Control of Industrial Pollution is achieved through Consent mechanism under Water (Prevention & Control of Pollution) Act, 1974 and / or Air (Prevention & Control of Pollution) Act, 1981 respectively.

8.6.2. Consent Management:

The Board is responsible for regulating the establishment and operation of such industries/units within the framework of various provisions of air and water pollution Acts and hazardous waste management rules. All such industries and units are required to make application in prescribed form with relevant information to the MPCB. After evaluation of documents such as the project proposals, processes involved in manufacturing or production of products, production capacity, siting of the industry etc, a physical inspection is made to assess the likely pollution sources and its prevention methods. Based on the categorization of industries according to the pollution criteria, the industry/unit is categorized under 'red' (pollution score 60 and above out of 100), 'orange' (pollution score from 30 to 59), or 'green' (pollution score from 15 to 29) category. Industries having a pollution score of less than 15 are considered under 'white' category. Red, orange and green category industries require a Consent to Establish (CTE) and Consent to Operate (CTO) certificates for a period of five, ten and fifteen years, respectively, from the MPCB on payment of a prescribed fee for regulation of pollution norms. White category industries do not require these certificates provided these perform according to the stipulated norms as per the Air and Water Acts.

Industrial units, that had started operations after obtaining Consent to Establish (CTE) issued by the MPCB has to apply for 'Consent to Operate' (CTO). No industry can operate without a valid CTO. This is granted to an industry stipulating

- (i) Name of the products/ by-products and quantity to be produced per month
- (ii) Parameters with prescribed standards and frequency of effluent and emission sampling
- (iii) Type and quantity of fuel used etc.

Thus, through CTO, MPCB monitors the compliance of environmental laws and standards in terms of raw materials consumed, emissions, effluents and waste discharges

Status of activities undertaken for Industrial Pollution Control during the period 2022-2023 is represented below:

8.6.3. Table : Status of actions taken/achievements on IPC during 2023-24

Sl. No.	Particulars	Actions					
1	Inventory	Inventory of dental establishments, bakery and automobile (used oil generating) unit conducted from Oct.2023 and completed by January,2024					
2	Inspections & monitoring	31					
3	Physical Crossed Verification on Compliance Report	29					
4	Complaints Received & Resolved	2					
3	Directions issued	71					
4	Penalty served	NIL					
5	Consent	Category wise no. of consent granted					
		RED		ORANGE		GREEN	
		2023-24	Cumulative	2023-24	Cumulative	2023-24	Cumulative
	Consent to Establish (CTE)	4	68	28	474	13	446
	Consent to Operate (CTO)	19	102	15	275	21	514
	Consent Renewed	4	68	28	474	13	446

Sl. No.	Particulars	Actions					
1	Inventory	1					
2	Inspections & monitoring	17					
3	Physical Crossed Verification on Compliance Report	21 (Automobile Works)					
4	Complaints Received & Resolved	2					
3	Directions issued	2					
4	Penalty served	Nil					

5	Consent	Category wise no. of consent granted					
		RED		ORANGE		GREEN	
		2023-24	Cumulative	2023-24	Cumulative	2023-24	Cumulative
	Consent to Establish (CTE)	4	236	26	443	22	454
	Consent to Operate (CTO)	20	112	25	262	35	342
	Consent Renewed	2	24	Nil	33	1	36

8.7. IMPLEMENTATION OF WASTE MANAGEMENT RULE FRAMED UNDER THE ENVIRONMENT PROTECTION ACT, 1986

8.7.1. Environment Protect Act,1986:

In the wake of Bhopal tragedy, the Government of India enacted the Environment (Protection) Act, 1986 (EPA) under article 253 of the constitution. The purpose of the Act is to act as an “umbrella” legislation designed to provide a frame work for Central government co-ordination of the activities of various central and state authorities established under previous laws, such as Water Act & Air Act. The potential scope of the Act is broad, with “environment” defined to include water, air and land and the inter-relationships which exist among water, air and land, and human beings and other living creatures, plants, micro-organisms and property. Environment protection & Waste Management rules were also enacted as a corollary to this Act.

8.7.2. Implementation of Waste Management Rule:

The most significant regulatory changes have been the introduction of Environment (Protection) Act, 1986, an umbrella act enacted in 1986 wherein, the State Pollution Control Board has been entrusted with varied responsibilities. The various rules notified under the Environment (Protection) Act, 1986, the status of implementation by MPCB during FY 2023-2024 are as follows:

Sl. No	WASTE MANGMENT RULE	No. of Inspection		Consent granted (2023-24)	Cumulative Consent	Authorization/ Registration (2023-24)	Cumulative Authorization/ Registration	Direction issued	Annual Report	Awareness	
		Authorization / Consent	Compliance Monitoring								
1	Solid Waste Management Rule	-	2	Nil.	1	-	1	1	Annual Report submitted every year before stipulated date prescribed by respective Rules	0	
2	Hazardous Waste Management Rule	13	22	13	13	1	21	25		1	
3	Plastic Waste Management Rule	5	0	3	3	1	1	3		3	
4	Bio- Medical Waste Management Rule									2	
4i	Bedded Facility	9	4	19	112	19	115	12			
4ii	Non bedded facility	4	0	Nil.*	Nil.*	46	306	5			
TOTAL		13	4	19	112	65	421	17			
5	E- Waste Management Rule	Not Applicable as no dismantling /refurbishing/recycling facility in the state. However, 2 Nos of collection centre M/S Karo Sambhav & M/S Hulladek recognized by the MPCB for Collection of e-wastes.								3	
6	Construction and Demolition Waste Rule	0	3	0	0	0	0	1	0		
7	Batteries Management Rule	NA									
*Consent under Air and Water Act exempted for non-bedded facility generating bio-medical wastes.											
Table 5: Status of Implementation of various rule notified under EPA, 1986											

*Consent under Air and Water Act exempted for non-bedded facility generating bio-medical wastes.

Table 5: Status of Implementation of various rule notified under EPA, 1986

8.7.3. Vehicular Emission Testing under the Central Motor Vehicles Rules

According to the Central Motor Vehicles Rules, 1989, it is mandatory for all vehicles to undertake the vehicle emissions test for obtaining Pollution Under Control (PUC) Certificates. All vehicles on Indian Roads are expected to carry a valid PUC Certificates; only vehicle that meet the emission and pollution control standards are granted the Certificates by the authorized testing agencies.

In Mizoram, the MPCB is notified as authorized testing Agency by the Transport Department since 2011. Thus, since the year 2012, vehicular emission testing is being conducted in full swing at four (4) locations in Aizawl viz, MINECO, Zemabawk, Hlimen and Rangvamual and one such site in Lunglawn, Lunlei. Further, necessary training is provided by the Board to persons to be engaged for the emission checking prior to operation of testing instruments.



Pic: VET at Hlimen,Aizawl & Lunglawn, Lunlei

Table: Number of vehicles tested during 2023-24					
Sl.No	Testing site	No.of test	Pass	Fail	Pass%
1	Court Zawl, MINECO	31831	31769	62	99.77%
2	Zemabawk	10175	10000	175	
3	Hlimen	4792	4749	43	
4	Rangvamual	4199	4189	10	
5	Lunglawn, Lunlei	6699	6546	153	
6	Mobile Testing	1724	1722	2	
	TOTAL	59420	58975	445	

Under the “Smart Cities Mission” Programme and the initiatives taken by the Aizawl Smart City, MPCB acquired 5(five) Mobile Emission Testing Vehicles with an aim to enhance the existing stationary testing program with mobile mode of testing to meet the increasing public demands. An official launching ceremony was held on 14th March, 2024 in the presence of Pu Lalmalsawma Pachuau, Secretary, Urban Development & Poverty Alleviation, Govt. of Mizoram.



Credit: I&PR Deptt

8.8. MoEF&CC's SPONSORED SCHEMES

8.8.1. The Environmental Information, Awareness, Capacity Building and Livelihood Programme (EIACP)

The EIACP earlier known as Environmental Information System (ENVIS) came into existence as a plan programme in 1983, funded by Ministry of Environment, Forest & Climate Change (MoEF&CC). The EIACP uses a network of decentralized framework endowed with the agenda of integrating countrywide efforts towards environmental conservation and management. It serves as a one-stop platform for dissemination of environmental information, informed policy formulation on various facets of environment and facilitation of alternate livelihoods through green skilling. It involves a recalibrated approach towards charting out a pathway for MoEF&CC to establish the quintessential social connect in order to enhance impact on the ground level. MPCB has been hosting this programme since 2002-03 and is responsible for planning, promoting, coordinating, and overseeing the implementation of this program in the state.

I. Information Related Activities:-

i) Regular maintenance and updation of EIACP website and other social media accounts

EIACP website (www.mizenvvis.nic.in) is regularly maintained and the different modules viz. Newsletter, Article, Air and Water Quality Data, AQI, WQI, Pamphlets, Posters, etc. are updated regularly on quarterly, monthly, etc. basis depending on availability of data.

Other social media accounts maintained at different platforms (Facebook, Instagram, etc.) are also updated with latest information and activities taken up by the Hub.



Pic. EIACP's website

8.8.2. Publication

Publication of environmental related information through different forms such as newsletter, booklet, pamphlet, short video clips has served as one of the most important means for dissemination of information to the public for the Hub. All publication items brought out in hard form and electronic version are uploaded in the Hub's website and social media accounts.

a) **Mizo EIACP Newsletter :-** Four issues of Mizo-EIACP Newsletter (Vol. 18 Series) was published and disseminated within and outside of the State.



Pics. Front covers of EIACP's Newsletters

b) Special Publication:- One special publication entitled 'Reports on Implementation of Mission LIFE in Mizoram' was brought out.

Pics. Cover page of special publication



c) Booklets/Pamphlets/Flyers:- A total of 31 publication items in the form of pamphlets, e-flyers, e-posters, and books/booklets were successfully developed and published by the Hub.



Pics. Pics. Publications made by the Hub

d) Environmental Kits:- Different information products such as one-page comic, animation videos, short video clips, etc. towards dissemination of environmental awareness among the students and the general public were created by the Hub.



Pics. Environmental Kits prepared by the Hub

e) **Short Documentary Film/Video Clip:-** For further dissemination of environmental awareness among the public, short video clips and documentaries on important topics and towards observance of different environmental related days were developed and brought out.



Pic. Short documentary developed as part of observance of World Water Day 2024

iii) **Maintenance of EIACP Library :** EIACP Library updated with new collection of books, newsletters, journals, etc.

iv) **ISBEID (Indian State Level Basic Environment Information Database) :** The Hub put up much effort for filling up of data gap by collecting latest data/information as per module of the ISBEID from different line departments and updating the same in the portal.

8.9 AWARENESS RELATED ACTIVITIES

Different awareness activities such as clean-up drive, cleanliness drive at river front, observance of environmental related days were taken up by the Hub all year round.

8.9.1 Cleanliness Drives:- The Hub was able to organized cleanliness drives for 9 times during 2023-2024 FY.

» Local areas, school/college's campuses were covered for cleaning up of littered garbage/waste materials giving more focus on single use plastics items.

» The Hub partnered with the host institute and different educational institutions in organizing clean-up drives.



Pics. Cleaning up of littered wastes along the roadside & School campus

8.9.2. River Front Clean-up Drives:- Clean-up drives at important rivers such as Tuikual River and Lawibual River was successfully organized 4 times during the reporting year.



Pics. Cleaning up of wastes from and along the river front

8.9.3 Observance of Environmental Related Days:- Important environmental related days such as Earth Day, International Day for Biological Diversity, World Environment Day, Green Mizoram Day, National Pollution Control Day, World Water Day, etc. were observed throughout the year.

Different kind of activities viz. observance functions, competitions, cleanliness drives, plantation programme, nature walk, etc. were implemented to mark these days.



Pics. Different activities organised in observance of environmental day

8.9.4 House to House Environmental Awareness Campaigns:- House to house environmental awareness campaigns at local and village levels were organized at different localities within Aizawl City and various villages respectively. During these campaigns, the EIACP team distributed publication items of the Hub for creation and had small talks with the residence so create environmental awareness and motivate them to work towards protection of the environment.



Pics. House to house campaigns organised by the Hub

8.10. SKILL DEVELOPMENT ACTIVITIES: With the main aim of imparting skills and knowledge on important topics such as Water Quality Assessment, Composting and Waste to Wealth workshops and hands-on trainings on were organised by the Hub.



Pics. Trainings organised by the Hub

8.11. MISSION LIFE ACTIVITIES: Awareness campaigns on Mission LiFE and the 7 different themes under Mission LiFE was implemented every month as per monthly calendar prepared by the Hub.

Activities included providing awareness lectures, development of publication items in the form of pamphlet, e-flyer, e-poster and short video clip, etc., organising competitions, preparation and placing of Mission LiFE selfie booth at the entrance of MPCB's main office, LiFE pledge taking, etc.



Pics. Different activities undertaken for promotion of Mission LiFE

8.11.1 North-East Yatra on Mission LiFE: The NE Yatra for Mission LiFE was conducted by EIACP Hubs and RPs housed in different North Eastern States of India from November, 2023 till 1st Week of December, 2023. The EIACP Assam (PC-Hub), Assam Science Technology and Environment Council, Guwahati was the nodal organisation for conducting the NE Yatra for Mission LiFE in the North East region. The primary goal of this yatra is 'To communicate a compelling message to the general public in order to focus the effort of the regions populace and communities on creating amass movement for positive behaviour change in the region'.

On 24th November, 2024 Er. C. Lalduhawma, Member Secretary, Mizoram Pollution Control Board successfully launched N.E Yatra on Mission LiFE to be implemented in all the 11 districts of Mizoram. Three yatra teams with five members each was formed to cover all the 11 districts of the State for taking up different activities towards promotion of Mission LiFE. More than 56,040 people were reached through the programme North East Yatra on Mission LiFE in Mizoram.



Pics. Activities taken under N.E Yatra on Mission LiFE in different districts of the State

The Culmination of the NE Yatra for Mission LiFE was held in Guwahati on 11th December 2023 at Guwahati Medical College Auditorium. The culmination programme was attended by EIACP Team and Yatra team members.



Pics. EIACP & Yatra Teams @ Culmination Programme of N.E Yatra

8.12. ENVIRONMENT EDUCATION PROGRAMME (EEP)

EEP is one of the components of the revamped Central Sector Scheme - 'Environment Education, Awareness, Research and Skill Development (EEARSD)'. This Scheme has been approved for continuation till the year 2025-26.

EEP aims to supplement the knowledge that the children and young generation gain from classrooms with experience from nature and hands-on activities. Psychological interventions to behavior change like education, enablement, incentivisation, modelling, persuasion, training, etc. would be the building blocks of this programme laid on the foundation of principles envisaged in the National Education Policy, 2020. With MPCB identified as the implementing agency for EEP, the target beneficiaries under EEP includes the Eco-clubs formed under National Green Corps Programme. Till date 1,553 school eco-clubs and 26 college eco-clubs from all 11 districts of the State have been registered through the EEP portal.

During 2023-2024 FY different activities were taken up by eco-clubs and all these activities were focusing towards generation of awareness on Mission LiFE among the students. Major activities carried out by school and college eco-clubs is highlighted below:-

8.12.1. Nature Camps: Two days and one night nature camps at different important places within the State including protected areas, nature parks, rivers, biodiversity rich areas, etc. were organised between November, 2023 and January, 2024. The main purpose of the nature camp is to provide opportunities for the students to step away from their day to day activities and spend time outdoors, making friends, to reconnect with nature and learn more about its beauty and diversity.

No. of nature camp organised	No. of District covered	No. of participants
17	11	850 (50 campers/camp)



Pics. Nature camps organised by School & College eco-clubs

8.12.2. Observance of Environmental related days:

Different activities namely awareness lecture, plantation drive, cleanliness drive, nature walk, competitions, etc. were taken up eco-clubs across the State towards observance of environmental related days such as World Environment Day, Wildlife Week, National Science Day, etc.



Pics. Observance of environmental related days

8.13. WORKSHOP, EXHIBITION & HANDS ON TRAINING

With the main objective of imparting knowledge and skills on important topics relevant for development of sustainable lifestyles number of programmes was organised for eco-club students as under-

8.13.1. District Level Waste to Art/Craft Exhibition cum Competition

i) Mizoram Pollution Control Board collaborated with the Office of District Education Officer of different districts in organising District level waste to art/craft exhibition cum competition for eco-club students (from elementary level to Higher Secondary level) within their respective jurisdiction towards promotion of the themes 'Reduce Waste and Reduce Single Use Plastics' under Mission LiFE.

The competitions covered 10 districts namely Lunglei, Hnahthial, Lawngtlai, Siaha, Champhai, Khawzawl, Saitual, Serchhip, Kolasib and Mamit witnessing more than 639 participants. The competitions were a huge success, witnessing an array of innovative artworks and crafts, ranging from sculptures and paintings to wearable art and functional items made from different kinds of used items and also attracted significant audiences, including local residents, educators, and environmental advocates, fostering community involvement in sustainable initiatives.



Pics. Students exhibiting their products and receiving award

ii) Workshop cum hands-on training on Waste to Art/Wealth at individual School level- Towards promotion of Mission LiFE and focusing the theme 'Reduce Waste' number of schools were able to organised 'Workshops cum Hands-on Training on Waste to Wealth/ Waste to Art'. During these programmes, lectures were given on the importance of proper management and the participants were taught the art of making different useful items from used/old plastic bottles, clothes, etc.



Pics. Workshop organised by School eco-clubs

iii) **Workshop cum Hands-on Training on Composting-** School and College Eco-clubs towards promotion of themes 'Reduce Waste' and 'Adopt Sustainable Food System' under Mission LiFE organised Workshops cum Hands on Trainings on composting within their respective institution. During these programmes, besides giving lecture and practical training on composting, awareness talk on the aims and objectives of Mission LiFE were also included. All the programmes were a huge success wherein the participants learned the need and importance of proper waste management and also the detailed steps and procedures of composting.



Pics. Hands-on Training on composting taken up by eco-clubs

iv) Awareness Campaigns- Number of School and College eco-clubs organised awareness campaigns in the form of seminar/lecture, cleanliness drives, house to house campaigns, pledge taking, etc. towards promotion of Mission LiFE and its different themes such as Save Energy, Save Water, Reduce SUPs, etc.



Pic : Hmingtea







Dampa Tiger Reserve

9 | ICFRE- Bamboo and Rattan Centre

9.1 BACKGROUND

ICFRE – Bamboo and Rattan Centre (ICFRE-BRC) is one of the Nine Research Institutes and Five Centers under the Indian Council of Forestry Research and Education (ICFRE) Dehradun. On 1st June 1991, the ICFRE was declared an Autonomous Council under the then Ministry of Environment and Forests and registered as a Society under the Societies Registration Act, 1860. Presently, ICFRE, with its Headquarters at Dehradun, is an apex body in the national forestry research system that promotes and undertakes need-based forestry research extension.

The ICFRE-BRC was established in 2004 at Aizawl, Mizoram as a unit of ICFRE-Rain Forest Research Institute (RFRI), Jorhat, Assam in accordance with the decision taken by the Standing Finance Committee, Ministry of Environment & Forests, Govt. of India. The foundation stone of Centre was laid by the then Hon'ble Minister of State, Environment and Forests, Govt. of India, Shri Namo Narayan Meena, on 29th November 2004 at Bethlehem Vengthlang, Aizawl (Figure 1). The Centre is the first of its kind in India for North Eastern people's socio-economic upliftment that revolves around Bamboos and Rattans.



Figure 1: Foundation Stone of the office was laid by Shri Namo N. Meena, the then Hon'ble Union Minister of State Environment, Forests & Climate Change, Govt. of India on 29th November, 2004

9.2 MANDATE OF THE CENTRE

The centre has the following mandate vide Secretary, ICFRE's notification no. 34-42/2018-ICFRE dated 16.04.2018:

1. To carry out focused research on Bamboo and Rattans in North-eastern region.
2. To disseminate available technologies/ processes/tools to user groups for conservation and sustainable use of forest resources, particularly bamboo and rattan.
3. To support the lead institute in research education and extension in the area of jurisdiction.

9.3 LAND AND BUILDING

Since its inception in 2004, the ICFRE-BRC had operated from a rented building till 2012. In 2012, the New Office Building, situated at the old zoo site in Bethlehem Vengthlang, was inaugurated by Pu Lal Thanhawla, the then Hon'ble Chief Minister of Mizoram, on 16th March 2012 (Figure 2).



Figure 2: Inauguration of Office Buidling

There are following infrastructure facilities at ICFRE-BRC (Annexure-I) :

9.3.1 Land:

ICFRE-BRC is situated on 11.63 hectares of land leased from the EF & CC department, Govt. of Mizoram, for 25 years (1st April 2010 to 31st March 2035) with an annual lease amount of ₹ 44,846 (Rupees Forty-Four Thousand Eight Hundred and Forty-Six only). The land is classified into three blocks, viz. Block A, Block B & Block C (Figure 2).

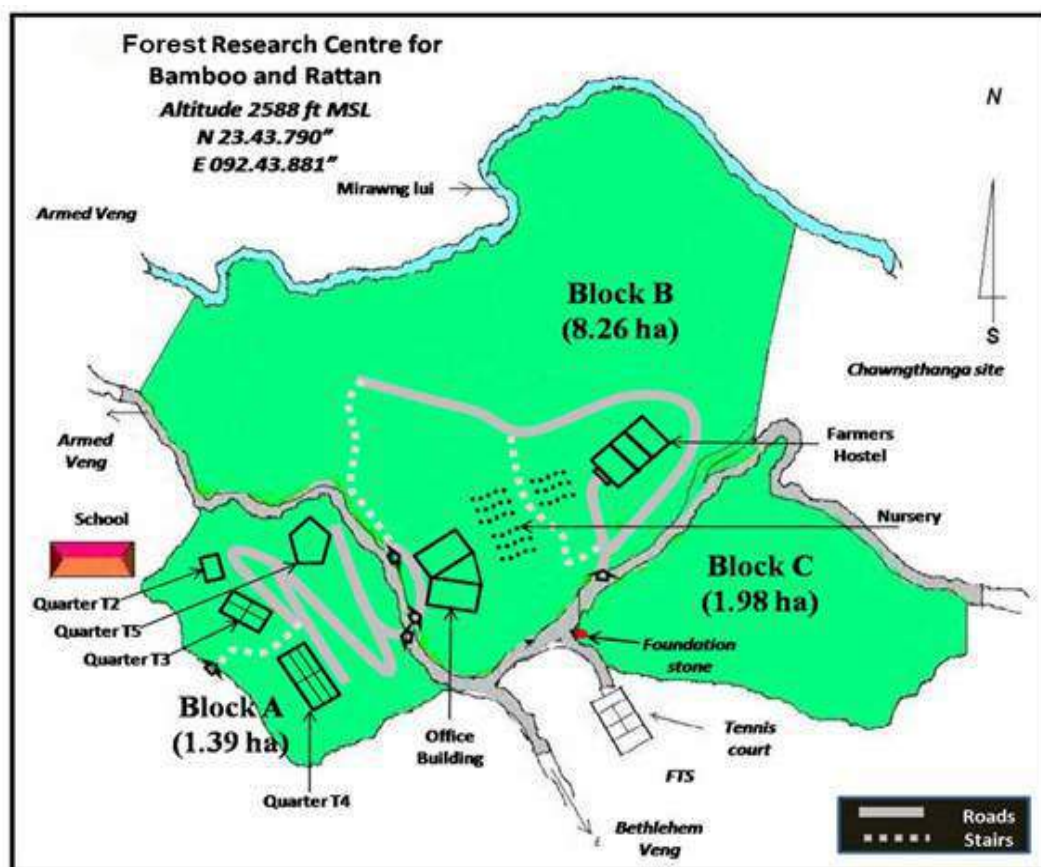


Figure 3: Map of ICFRE-BRC, Aizawl, Mizoram

9.3.2 Buidling:

The building of ICFRE-BRC is a three-storied administrative cum laboratory building comprising 15 Rooms, 4 Halls (Conference Hall, Library Hall, Bamboo Workshop Hall, Bamboo & Rattan Museum) and 2 Laboratories (Common Lab and Plant Tissue Culture Lab) (Figure 4).

9.3.3 Residential Quarters:

There are a total of 12 residential quarters at ICFRE-BRC, viz. Type V (1 no.), Type IV (6 no.), Type III (4 no.) and Type II (1 no.).

9.3.4 Farmers' Hostel:

There are 7 rooms in the Farmers' Hostel of ICFRE-BRC, viz. Suite (1 no.), Deluxe (1 no.), Double-Bed Room (3 no.), Cook Room (1 no.) and Store Room (1 no.), Dormitories (4 no. with a total capacity of 30 beds), Dining Hall (1 no. with a total capacity of 24 persons) and a Multipurpose hall (1 no.; 50 persons) (Figure 5).



Figure 4: Office Building of ICFRE-BRC, Aizawl, Mizoram



Figure 5: Farmers' Hostel of ICFRE-BRC, Aizawl, Mizoram

9.4. RESEARCH FACILITIES

- A. Plant Tissue Culture Laboratory
- B. Common Laboratory
- C. Bamboo Germplasm Bank with 32 species

- D. Rattan Germplasm Bank with 12 species
- E. Lichen Germplasm with 73 species of lichens
- F. Agarwood Germplasm Bank
- G. Nursery facilities
- H. Hardening Shade House.
- I. Bamboo Workshop

9.5 STAFF STRENGTH

The human resource of ICFRE-BRC is as follows:

S.N.	Name of Staff	Designation	Pay Matrix	Pay level
(1)	(2)	(3)	(4)	(5)
Group-A (Research)				
1	Shri Sandeep Yadav	Scientist-"D" & Head	Rs.78800-209200	12
2	Shri Subhprada Behera	Scientist-"B"	Rs.56100-177500	10
3	Shri Arun Sukumaran	Scientist-"B"	Rs.56100-177500	10
Group-B (Technical Category -I)				
1	Ms. Dorothy Lalrinpuui	Technical Assistant	Rs.29200-92300	5
2	Shri Saurabh Tamang	Technical Assistant	Rs.29200-92300	5
Group-"C" (Administration)				
1	Shri Hem Prasad Duarah	UDC	Rs.25500-81100	4
2	Sh.Lalruatkima	Driver (O.Grade)	Rs.19900-63200	2
3	Miss Lalrintluangi Fanai	MTS	Rs.18000-56900	1
4	Sh. Lalmuankima	MTS	Rs.18000-56900	1
5	Miss C. Vanlalhlani	MTS	Rs.18000-56900	1
6	Sh. S.Nelson Chakma	MTS	Rs.18000-56900	1
7	Sh. N.C.Lalnuntluanga	MTS	Rs.18000-56900	1

9.6 PHYSICAL & FINANCIAL ACHIEVEMENTS DURING 2022-23

9.6.1. The list of ongoing research projects during 2022-23 is as follows:

S.N.	Title	Cost (₹ lakh)	Duration	Funding agency	Principal Investigator
1	Identification of genetically superior germplasm of priority bamboo species of Mizoram	25.00	2021-24	MBM, Mizoram	Dr. Hans Raj

9.6.2 The list of ongoing research projects during 2023-24 is as follows:

Sl. No.	Title	Cost (₹ lakh)	Duration	Funding agency	Principal Investigator
1	Conservation and Evaluation of Bamboo Genetic Resources in Northeast India	95.08	2017-27	ICFRE	Sh. Md. Ibrahim
2	AICRP on Bamboo-subcomponent-Population Genetic Analysis of Important Bamboo Species	-	2019-25	ICFRE	Sh. Md. Ibrahim
3	AICRP on forest fire research and management	-	2019-25	ICFRE	Sh. Nada Tadi
4	National Programme for Conservation and Development of Forest Genetic Resources	-	2019-25	ICFRE	Sh. Md. Ibrahim

9.6.3 The list of training programme conducted during 2023-24 is as follows:

S.N.	Title	Duration	Funding agency	No. of participants
1	Training cum awareness programme on Orchids	04.07.2023 to 05.07.2023	ICFRE	28
2	Training programme on disease and insect pest management in forestry	23.08.2023 to 24.08.2023	ICFRE	23
3	Three days skill development training under Van Vigyan Kendra, Mizoram on bamboo & rattan handicrafts	05.02.2024 to 07.02.2024	ICFRE	20
4	Three days hands-on training under Van Vigyan Kendra, Mizoram on Mushroom cultivation.	14.02.2024 to 16.02.2024	ICFRE	20
5	Three days hands-on training cum Exhibition under Van Vigyan Kendra, Mizoram on Livelihood Opportunities.	26.03.2024 to 28.03.2024	ICFRE	20

9.6.4 The budget details during 2023-24 are as follows:

(Rs. in lakh)

S.N.	Budget Head	Budget Alloted	Fund Received	Expenditure
1	Salaries*	0.00	0.00	0.00
2	General	22.25	22.25	22.60
3	Capital Assets	1.00	1.00	0.94
	Total	23.25	23.25	23.54

9.7. SALIENT ACHIEVEMENTS

- As per the centre's mandate, most of the research activities have been carried out on Bamboo & Rattan. Apart from the core research area of Bamboo & Rattan, the centre has also worked on other forestry-related issues such REDD+ Pilot Project in Mizoram, Disease of Important Tree species, Lichen Diversity in different states under the jurisdiction, Orchid micro-propagation etc.
- In order to conserve Bamboo and Rattan resources of the North-Eastern region, 32 bamboo and 12 rattan species have been conserved and maintained by the research centre for extension and education with proper details. Ex-situ conservation of various bamboo and rattan species has been carried out, and germplasm bank/research plots have been established to support the centre's current and future research activities.
- Nursery techniques for the economically important bamboo and rattan species have been standardised to disseminate among the end-users. Further, the extension materials (Pamphlets/Videos) developed for nursery management, propagation and plantation management of bamboo & rattan have been translated/dubbed in the local Mizo language.
- In collaboration with the State Forest Department of Mizoram, a tissue culture laboratory has been set up and operationalised at ICFRE-BRC. In 2020, the lab was upgraded to a standard layout through a project funded by the Mizoram forest department under the national bamboo mission. Presently the tissue culture lab is involved in developing mass propagation for bamboo, orchids and other NTFPs. Protocols for *Bambusa mizorameana*, *B. wamin*, *Dendrocalamus giganteus*, *D. longispathus*, *Sasa fortunei*, *Thyrostachys oliverii* have been standardised and seedlings have been raised. Protocols for *Aerides odorata*, *Cymbidium aloifolium*, *Dendrobium primulinum*, *D. transparens*, *Renanthera imschootiana*, *Vanda coeulea* etc. have been standardised, and seedlings have been raised. The tissue Culture laboratory of ICFRE-BRC raised around 15,000 seedlings of orchids and re-introduced them in the wild.
- Studies on diseases of bamboo, rattan and other important tree species and their management.
- Bamboo Treatment, Bamboo charcoal and vermicomposting.
- The ICFRE-BRC has completed 11 research projects as of 2020-21. Besides that, ICFRE-BRC has evaluated plantations raised by the Mizoram forest department under the National Afforestation Programme (NAP) scheme and Green India Mission (GIM) in 2021-22. ICFRE-BRC identified 317 species of lichens from Mizoram and 124 species of lichens from Tripura through different ICFRE funded research projects.

- ICFRE-BRC raised 10 hectares of coffee plantations at the Ailawng and Reiek villages of Mamit district of Mizoram, respectively.
- ICFRE-BRC reported *Dibaeis absoluta* as a new lichen record for India.
- ICFRE-BRC prepared six short video clips on artificial pollination of orchids.
- Bi-lingual pamphlets have been prepared on Bamboo Propagation, Bamboo Charcoal, Bamboo Treatment, Cultivation practices of Bamboo, Lichen diversity of Mizoram and Tripura, Orchid Micro-propagation etc.



Hon'ble Forest Minister, Mizoram Pu T.J. Lalnuntluanga visited ICFRE-BRC on 26th February, 2022 and released a DVD on Artificial pollination of Orchids.



JICA Team Visited the ICFRE-BRC Tissue Culture Laboratory on 24.05.2022



Training of Farmers and Unemployed youth on value addition of Bamboo & Rattans at Lengte village during 30-31st August 2022



Visit of Front line staff of EF&CC Department Mizoram to ICFRE-BRC in June, 2022



Exposure Visit of Student of KV, Mizoram University to ICFRE-BRC on 17/11/2022



Scientist-Student interaction at JNV, Thenday on 29/11/2022



Scientist-Student interaction at JNV, Khawzawl on 02/12/2022



Exposure visit of students of KV, Aizawl on 15/12/2022



Training of Mizoram University Students on Bamboo Architecture during 24-26th January 2023



Exposure visit of students of KV, Aizawl on 15/12/2022



Two days Training Programme on Disease and Insect Pest Management in Forestry during 23-24 August 2023



Training cum awareness programme on Orchids during 4-5th July 2023



03 days skill development training under VVK on bamboo & rattan handicrafts during 05-07th February 2024



03 days training under VVK on Mushroom Cultivation during 14-16th February 2024



03 hands-on training cum Exhibition under VVK, Mizoram on Livelihood Opportunities during 26-28 March 2024



Sh. Ashok Kumar Biswal, PCCF, Mizoram graced the occasion as Chief Guest



Pic : Vapuantah

10 | Chakma Autonomous District Council

10.1 NAME OF ESTT / OFFICE: CHAKMA AUTONOMOUS DISTRICT COUNCIL

Sl. No.	Name of Post	Sanctioned Post	Filled	Regular	M/R
1	DCCF	2	-	2	-
2	ACF	1	-	1	-
3	FRO	5	-	5	-
4	SA	1	-	1	-
5	Assistant	2	-	2	-
6	Dy Ranger	7	-	7	-
7	UDC	3	-	3	-
8	LDC	19	-	19	-
9	Forester	23	-	23	-
10	Forest Guard	39	-	39	-
11	Office Peon	22	-	22	-
12	Chowkidar	2	-	2	-
13	Sweeper	2	-	2	-
14	P. Mali	4	-	4	-
Total		132	-	132	-

10.2 REVENUE RECEIPTS FROM BROOMSTICK DURING 2023-2024

Item	Permit/Seized	Quantity (in nos)	Amount received (in Rs)
Broomstick	Legal	10,665qntls	10lakhs
	Seized		
	Private		
Total		10,665qntls	10lakhs

10.3 LIST OF APPROVED WORKING PLAN IN MIZORAM TILL TODAY

Sl.No.	Territorial divisions	Period of WP	Written by
1	Chakma Forest Division	2013-14 to 2022-23	M.Z. Singson

10.4 SPOT VERIFICATION OF FIRE INCIDENCE, 2023-2024 (FSI), DISTRICT WISE

Division wise total extend of fire area 2021-22				
Sl.No.	Name of Division	Total No of Fire	Total no of fire area (in Ha)	Causes of Fire
1	Chakma Forest Divison	402	84	Jhum Burning/ Burning of pri- vate garden
TOTAL		402	84	

10.5 ABSTRACT OF FIRE INCIDENCE FOR THE YEAR 2023-24

Sl. No.	Name of Division	No of incidents in forest areas		Forest area affected by fire (in Ha)		Type of fire crown, ground	Estimated loss (in RS)			Remarks
							Loss in timber			
		Within PA	Outside PA	Within PA	Outside PA		Volume	Value	Damage Plantation Area	
1	Chakma Forest Division		402		84	Ground				
Total			402		84					



Pic : Hmuifang Tlang
Photo : Johny Lalhrualtuanga



Pic : Luidung-thizil (*Silver breasted broadbill*)
Photo : Johny Lathruaitluanga

11

Chhimtuipui Wildlife Division

11.1 POST/STAFF POSITION (2023-2024)

Sl. No.	Name of Post	Sanctioned post	Filled	Vacant
1	DCF	1	1	-
2	ACF	1	0	1
3	Head Assistant	1	0	1
4	Range Officer	3	0	3
5	UDC	2	1	1
6	LDC	2	0	2
7	Surveyor	1	0	1
8	Dy.Ranger	2	0	2
9	Driver	1	0	1
10	Forester	14	5	9
11	Forest Guard	19	1	18
12	Peon	2	1	1
13	Chowkider	1	1	-
14	FRH Chowkider	2	2	-
15	D/Runner	1	0	1
16	P/Mali	1	0	1
17	Chainman	1	0	1
18	H/Constable	0	1	-
	Total	55	13	42

11.2 CSS: IDWH 2023 - 2024 FOR DEVELOPMENT OF NGENGPUI WILDLIFE SANCTUARY

Sl No	Item of works	Sanctioned		Location	Actual		Location
		Amount in lakh	Quantity		Amount in lakh	Quantity	
1	Engagement of anti-poaching squad 25nos for Aug/22 to July/23 12 months @Rs.11400(CSS)	34.2	25 nos	NG-WLS	34.2	25 nos	NG-WLS

2	Engagement of anti-poaching squad 25 nos. for 29 days and 2hrs(Aug/23) @Rs.380 (CSS)	2.78325	25 nos	NG-WLS	2.78325	25 nos	NG-WLS
4	Engagement of anti-poaching squad 25 nos. for 1 day 6hrs(aug/23) @Rs.380 and 25 nos for 1 month (Sept/23) 11 days 4hrs (October/23) (SMS)	4.11	25 nos	NG-WLS	4.11	25 nos	NG-WLS
	Total of SMS	4.11			4.11		
	GRAND TOTAL	41.09325			41.09325		

11.3 CSS: IDWH 2023 - 2024 FOR DEVELOPMENT OF PHAWNGPUI NATIONAL PARK

Sl No	Item of works	Sanctioned		Location	Actual		Location
		Amount in lakh	Quantity		Amount in lakh	Quantity	
1	Engagement of anti-poaching squad 15nos for 3 months @ Rs.11400and20 days @Rs.380 (Dec/22 to March/23) (CSS)	6.27	15 nos	PNP	6.27	15 nos	PNP
2	Engagement of anti-poaching squad 15 nos. for 12 months @Rs.11400 (CSS)	20.52	15 nos	PNP	20.52	15 nos	PNP
3	Maintenance of patrolling path (CSS)	3.59625	17 km	PNP	3.59625	17km	PNP
	Total of CSS	30,38625			30,38625		
4	Fire line cutting (SMS)	3.38	19km	PNP	3.38	19km	PNP
	Total of SMS	3.38			3.38		
	GRAND TOTAL	33.76625			33.76625		

11.4 DETAILS REPORTS ON WILDLIFE COMPENSATION CLAIM DURING 2023-2024

1	Buangthanga	Mampui	Crop Damage by Wild Elephants	17* Oct, 2023	Rs 34,330	Still in process
2	MC. Vanlalngheta	Mampui	Crop Damage by Wild Elephants	18th Oct, 2023	Rs 35,210	Still in process

11.5 ABSTRACT OF FIRE INCIDENCE FOR THE YEAR 2023-24

Sl No	Name of Division	No of incidents in forest areas		Forest area affected by fire (in Ha)		Type of fire crown, ground	Estimated loss (in Rs) Loss in timber			Remarks
		Within PA	Outside PA	Within PA	Outside PA		Volume	Value	Damage plantation area	
	Chhimtuipui Wildlife Division		3	1.1	0.9					

11.6 SPOT VERIFICATION OF FIRE INCIDENCE, 2023-2024 (FSI), DISTRICT WISE

Division wise total extend of fire area 2023-24				
Sn	Name of division	Total no of fire	Total no of fire area (in Ha)	Causes of fire
	Chhimtuipui Wildlife Division	6	2	Other causes

11.7 ABSTRACT OF FOREST OFFENCE CASES DURING 2023-24

Sl No	Name of Division	No of person involved	No of unknown persons	No of cases	No of compounded case	No of case filed in court	No of case disposed by court	No of case pending in court	Quantity Forest Product	Money realized (in Rs)
	Chhimtuipui Wildlife Division	11	0	11	11	0	0	0	31.89 cu.m	114,800

11.8 ABSTRACT WILDLIFE OFFENCE CASES DURING 2023-24

Sl No	Name of Division	No of person involved	No of place of occurrence	No of compounded case	No of case filed in the court	No of case disposed by court	Amount recovered/ realized as compounded (in Rs)	If filed in court date of filing the case and estimated amount liable to be fine in the charge sheer	remarks
	Chhimtuipui Wildlife Division	1	1	1	0	0	Rs 2000		case compounded with a fine of Rs 2000
Total		1	1	1	0	0	Rs 2000		



12 | NON-TIMBER FOREST PRODUCE (NTFP)

Non Timber Forest Produce (NTFP) is earlier termed as Minor Forest Produce (MFP), however, it has now been termed as Non Timber Forest Produce (NTFPs) due to its multiple roles and uses. Mizoram is very rich in NTFP resources which have been explored and utilized in many way since earlier time. However, proper scientific research has not yet been conducted for inventorisation and documentation of various items of NTFPs.

12.1 BAMBOO RESOURCES OF MIZORAM

Bamboo is the major item of NTFP in Mizoram and it usually grows as an under-storey to the tree species in tropical evergreen and sub-tropical mixed-deciduous forests, whereas *Melocanna baccifera* (Mautak) forms dense or pure forests in several areas in the State. Large tracts of bamboos are seen throughout the State but their distribution is somewhat restricted to about 1600m and below. They occur mostly between 40 m and 1520 m in tropical and sub-tropical areas, while few species occur in temperate areas in Blue Mountain and Chalfilth. It appears that bamboos have resulted from jhumming system of cultivation (Deb and Dutta, 1987). For practicing jhum cultivation, forests are burnt and tree species are destroyed but the bamboo rhizomes throw out new culms as soon as favourable temperature and seasonal monsoon arrive. Therefore, in abandoned jhumland they are the first colonizer and grow rapidly.

12.1.1 List of bamboos found in Mizoram

S N	Mizo Name	Botanical Name
1	Rawhling	<i>Bambusa bamboos</i> (Linn.) Voss
2	Ralleng mau	<i>Bambusa nagalandiana</i> Naithani
3	Ankuang	<i>Bambusa nutans</i> Wall
4	Rawthing	<i>Bambusa tulda</i> Roxb.
5	Talan	<i>Bambusa mizoramliana</i> Naithani
6	Vairua	<i>Bambusa vulgaris</i> Schrad.ex Wendl.
7	Phar	<i>Chimonobambusa callosa</i> (Munro) Nakai
8	Rawpui	<i>Dendrocalamus giganteus</i> Munro
9	Rawlak/Rawkhauh	<i>Dendrocalamus hookerii</i> Munro
10	Rawnal	<i>Dendrocalamus longispathus</i> (Kurz) Kurz
11	Rawchhia/ Rawchhe-changdam	<i>Dendrocalamus manipureanus</i> Naithani & Bisht
12	Rawmi	<i>Dendrocalamus sikkimensis</i> Gamble
13	Tursing	<i>Dendrocalamus strictus</i> (Roxb.) Kurz

14	Phulrua	<i>Dendrocalamus hamiltonii</i> Nees & Arn.Ex Munro
15	Mautak	<i>Melocanna baccifera</i> (Roxb.) Kurz
16	Sairil	<i>Melocanna compactiflorus</i> (Kurz) Benth.& Hook.f.
17	Saiman	<i>Neomicrocalamus mannii</i> (Gamble) Majumdar
18	Rawngal	<i>Schizostachyum capitatum</i> Majumdar
19	Rawthla	<i>Schizostachyum dullooa</i> (Gamble) Majumdar
20	Lik	<i>Sinarundinaria falcate</i> (Nees) Chao & Renvoize
21	Rawngal	<i>Schizostachyum fuchsianum</i> (Gamble) Majumdar
22	Lik	<i>Sinarundinaria griffithiana</i> (Munro) Chao & Renvoize
23	Lik	<i>Sinarundinaria longispiculata</i> Chao & Renvoize
24	Rawte	<i>Schizostachyum mannii</i> Majumdar
25	Phungkirua	<i>Thyrsostachys oleveri</i> Gamble
26	Chal	<i>Schizostachyum polymorphum</i> (Munro) Majumdar
Newly Introduced		
27	Maueng	<i>Bambusa balcooa</i> (Roxb.)
		<i>Bambusa dampaeana</i> Naithani, Garbyal & Bisht
		<i>Bambusa multiplex</i> (Lour.) Raeusch. Ex.J.A.& J.H.Schults
		<i>Bambusa vulgaris</i> var, vittata A. & C. Riviere
		<i>Bambusa vulgaris</i> var, waminii Wen
		<i>Dendrocalamus asper</i> (Schult.f.) Backer ex Heyne
		<i>Dendrocalamus latiflorus</i> Munro
		<i>Phyllostachys edulis</i> (Carriere) J.Houzeau, Bambou(Mons)
		<i>Phyllostachys mannii</i> Gamble
28	Nat	<i>Schizostachyum munroi</i> Kumar & Singh
29	Mau-dang	<i>Schizostachyum pergracile</i> (Munro) Majumdar

12.1.2 Extent of Bamboo Bearing Areas

Bamboos are found abundantly in Mizoram mainly along river banks and on abandoned jhumland. Both the clump forming and the non-clump forming species occur naturally in most parts of the State except on the higher altitudes of eastern region. A large area of 9,245 sq.km, which is 43.84 percent of the State's total geographical area, has been assessed as "Bamboo bearing area" (Forest Survey of India, 2011, p 61).

In fact, the entire North-East region of the country is blessed with a large extent of bamboo bearing areas. The region has 40.11 percent of the country's total bamboo bearing area (Forest Survey of India, 2011). Further, in the North-East region, the State of Mizoram has substantial bamboo bearing area (9,245 sq.km) next to Arunachal Pradesh (16,083 sq.km) and Manipur (9,303 sq.km)

A project on "Mapping and Growing Stock Assessment of Bamboo in Mizoram" using advanced technology of Remote Sensing and GIS was taken up by the Mizoram Remote

Sensing Application Center (MIRSAC) in the year 2007 and completed in 2008. The project was sponsored by the Environment and Forests department, Government of Mizoram. A total of 7091.67sq.km was reported as Bamboo Area as per the study report made available by the MIRSAC. Lunglei district was reported to have the maximum bamboo area (1956.59 sq.km) followed by Mamit district (1598.00 sq.km) whereas Champhai district was found to have the minimum bamboo area of 345.68 sq.km

The north-west region of the State (Mamit and Kolasib districts) was found having maximum concentration of bamboo occurrence. Mamit district was found having maximum percentage of bamboo area to its geographical area (52.81) followed by Kolasib (47.87) with an area of 661.80 sq.km under bamboo. The utilization of bamboo resources in these districts may be more economical because of better river, road and rail connectivity. Bairabi, the only railhead in Mizoram, is situated in Kolasib district.

12.1.3 District wise bamboo distribution/area of Mizoram

S N	Name of District	Geog. Area (sq.km)	Bamboo Area (sq.km)	% of bamboo area to geog. area	% bamboo area to total bamboo area
1	Aizawl	3576.31	927.69	25.94	13.08
2	Champhai	3185.83	345.68	10.85	4.87
3	Kolasib	1382.51	661.80	47.87	9.33
4	Lawngtlai	2557.10	730.79	28.58	10.30
5	Lunglei	4538.00	1956.59	43.12	27.59
6	Mamit	3025.75	1598.00	52.81	22.53
7	Saiha	1399.90	432.04	30.86	6.09
8	Serchip	1421.60	439.08	30.89	6.19
Total		21087.00	7091.67	33.63	100

Source: MIRSAC (2008)

12.1.4 Bamboo Growing Stock

The State of Mizoram is small in size covering only 0.64 percent of the country's total geographical area. In spite of being small in size, Mizoram contributes 2.27 percent (by number of culms) of the total growing stock of bamboos in India.

The "Growing Stock" of bamboos by "green weight" was found the highest in Lunglei district followed by Mamit district. It was found the lowest in Champhai district.

Growing Stock (GS)		% of Country's GS of Bamboo
Bamboo bearing area inside RFA/ Green Wash (in sq km)	3,476	2.17
Total number of culms (in millions)	1,074	2.72
Total equivalent green weight (in 000' tonnes)	8,812	3.17

(IFSR 2019)

12.1.5 Important figures on Bamboo of Mizoram as per ISFR 2019

Distribution of Bamboo in Recorded Forest Area	
Bamboo bearing area in sq.km. (ISFR 2019)	3476
Bamboo bearing area in sq.km (ISFR 2017)	3267
Change in area with respect to ISFR 2017	+209
Number of estimated culms by soundness in Recorded Forest Area (in millions)	
Total number of culms	1074
Total as per ISFR 2017	716
Changes w.r.t. ISFR 2017	+358
Equivalent Green Weight by Soundness of culms in Recorded Forest Area (000' tonnes)	
Total green weight	8812
Total as per ISFR 2017	6217
Change w.r.t. ISFR 2017	+2595

12.1.6 Flowering of Bamboos in Mizoram

Mizoram had suffered from famines, known locally as “Mautam” and “Thingtam”. Mautam is caused by the flowering of *Melocanna baccifera* and Thingtam by the flowering of *Bambusa tulda*. Mautam occurs 30 years after Thingtam and the latter 18 years after Mautam. The State witnessed Mautam in 1815, 1863, 1911, 1959, and recently in 2006-07. The latest gregarious flowering started in 2006 and then increased abruptly in 2008. Due to this flowering, 331.43 million culms of bamboos were lost in 2006 and 3,324.63 million culms in 2008 (E & F Department, 2010). Again, a “Thingtam” is expected in 2025 and “Mautam” in 2055. Mautam is more severe because *Melocanna baccifera* is abundantly found and its fruits have the potential to support large population of rats.

12.1.7 The Bamboo Policy

The eco-friendly Bamboo crop in Mizoram has immense potential to revolutionize the State's economy through industrial development as there is a growing demand for bamboo-based products in regional, national and international markets. Quantitative and qualitative enrichment of bamboo forests, sustainable extraction of bamboos from the forests, value addition to sustainably extracted bamboos and strategically planned marketing of value added bamboo-based products will generate additional employment for the educated youth, financial benefits for the entrepreneurs and more revenue for the State. Bamboo-sector may be one of the high priority thrust areas for sustainable economic development in the State.

Considering the ecological significance and the economic potential of bamboos, the State government of Mizoram framed the “Bamboo Policy” in the year 2002. The policy aims at

- Protection and preservation of mountain ecology;
- Conservation of rich bio-diversity associated with the bamboo bearing areas and their future development;

- iii. Sustainable development and utilization of bamboo resources through scientific management;
- iv. Promotion of private bamboo plantations (individuals and community-owned) as the key thrust area for future economy of the State;
- v. Promotion of bamboo cultivation in the homestead, as a cash crop and an essential component of agro-forestry to generate income and to meet the contingent needs of the rural households in the State;
- vi. Improvement of bamboo productivity in farm and forestry sector by use of biotechnology and improved management practices thus making bamboo plantation a profitable and attractive economic enterprise for securing adequate return on investment;
- vii. Promotion of bamboo based industries at cottage level, small scale, medium and large scale for utilizing the available resources at a sustainable level for generating assured income;
- viii. Revitalization and promotion of local traditional bamboo craft and art with improved technology, design and market-linked trade of value added items for export;
- ix. Promotion of bamboo sector growth as an essential component of rural development;
- x. Promotion of bamboo as a wood substitute and
- xi. Promotion of awareness and understanding of bamboo as “Green Gold” among farmers, traders, entrepreneurs and other stakeholders in the State so as to utilize full potential of the existing bamboo-bearing areas.

The Bamboo Policy of 2002 emphasizes upon adoption of the following approach for development of the bamboo-sector:

- i. Conservation of bamboo diversity;
- ii. Use of bamboo vegetation as protection to critical watersheds, human habitations and civil structures such as national and State highways, rural roads and hydro power projects;
- iii. Involvement of Village Councils/Village Forest Development Committee (VFDCs) in scientific management of the existing bamboo bearing areas;
- iv. Technical and financial support for optimization of yield from the bamboo forests;
- v. Setting up proper institutional arrangements for facilitating expeditions development of the bamboo sector;
- vi. Identification of suitable bamboo species for raising of plantation;
- vii. Ensuring regular supply of bamboos as raw material to local industries;
- viii. Creating investment friendly environment to encourage bamboo plantations and setting up of bamboo-processing enterprises in the State.

Suitable strategies such as (1) protection of mountain ecology and environment through conservation of bamboo forests, (2) dedicated land use for bamboo development, (3) assessment of bamboo resources and their scientific management, (4) regulation of bamboo harvesting, (5) establishment of bamboo-based industries with marketing linkages and (5) research and development for enhancing the quality (crop-productivity) of the bamboo forests were envisaged in the Bamboo Policy of 2002.

12.1.8 Revenue receipts from bamboo during 2019-2020 is as under

Item	Permit/Seized	Quantity (in nos)	Amount received (in Rs)
Bamboo	Legal	161658	323316
	Seized	352675	711198
	Private	130484	83686
Total		644817	1118200

12.2 ORCHID RESOURCES IN MIZORAM

The State of Mizoram is blessed with several species of valuable orchids locally known as “Nauban”. In fact, the nature has bestowed Mizoram with a precious wealth of diverse orchid species. The epiphytic orchids are found abundantly in the mountain Sub-tropical pine forests (9/C2) whereas, terrestrial orchids are more confined to Tropical semi-evergreen forests (2B/C2). Some of the epiphytic genera which are normally found in the State are *Acampe*, *Ascocentrum*, *Aerides*, *Bulbophyllum*, *Coelogyne*, *Cleisostoma*, *Dendrobium*, *Eria*, *Liparis*, *Oberonia*, *Papilionanthe*, *Pholidota*, *Renanthera* and *Vanda*. Terrestrial orchid genera reported to occur in the State are *Acanthephipium*, *Arundina*, *Calanthe*, *Eulophia*, *Habenaria*, *Malaxis*, *Peristylis*, *Phaius* etc.

About 250 to 300 species of orchids are expected to occur in Mizoram. Cecil E.C Fisher listed 151 species of orchids in Mizoram (The Flora of Lushai Hills, 1937) whereas, Botanical Survey of India, N.E Region listed 253 species of orchids in Mizoram, which is 102 species more than that of the previous record made by E.C Fisher (The Journal of the Orchid Society of India, Vol.4, 1990). 83 species of common orchids found in the State have been listed by the Environment and Forests department (2011) with botanical description and photographs. In addition, there are several other species occurring in the State. A pictorial album of some useful orchid species has also been published by the department (2014).

The State also provides natural habitats for four important species listed under Schedule VI of the Wild Life (Protection) Act, 1972. These are Blue Vanda (*Vanda coerulea*), Red Vanda (*Renanthera imschootiana*) and Ladies Slipper Orchids (*Paphiopedilum hirsutissimum* and *Paphiopedilum villosum*). The occurrence of these species reflects the ecological importance of the orchid-wealth found in the State of Mizoram.

Orchids found in Mizoram have both ornamental and medicinal values. Some of the species such as *Arundina graminifolia*, *Ascocentrum ampullaceum*, *Aerides odorata*, *Coelogyne flavida*, *Coelogyne nitida*, *Cymbidium iridioides*, *Dendrobium transparens*, *Liparis longipes*, *Paphiopedilum villosum*, *Pelatantheria insectifera*, *Papilionanthe*, *Phaiustan kervilleae*, *Vanda coerulea* (Blue vanda) etc. have more ornamental values whereas some species such as *Dendrobium nobile*, *Eria picata*, *Eulophia nuda*, *Malaxisa cuminata*, *Vanda testacea* etc. carry significant medicinal value also. *Renanthera imschootiana* is one of the most common but threatened species found in the State. Its local name Senhri is also very popular. Its beautiful flower (flowering season - May to June), which is red deep in colour, is presently the State flower of Mizoram. Earlier, the flower produced by *Globba spathulata* (Aiting), which is very unique resembling like a dancing girl, was the State's flower.

12.2.1 Threat to Orchids

The threat is mainly from loss of habitat, fire, illicit felling of trees and orchid hunting. Degradation in forest cover affected by the traditional practice of shifting cultivation has been one of the major reasons for dwindling population of orchids in Mizoram. "Orchid hunting" is another serious threat. Un-controlled, un-checked, un-scientific and un-sustainable collection of flowers and other parts of orchids from the wild has damaged much to the resource base of orchid species. For example, illegal collection of Blue Vanda (*Vanda coerulea*) and Red Vanda (*Renanthera imschootiana*) from the forests have affected their population to a large extent.

12.2.2 Conservation Efforts

Conservation efforts have been taken up by the Environment, Forests & Climate Change department of the State to conserve the indigenous orchid species. Mini orchid-house has been established, one each at Aizawl Zoo, Champhai and Sairang. Some of the species such as *Aerides odorata*, *Arundina graminifolia*, *Bulbo phyllum parryae*, *Dendrobium chrysotoxum*, *Dendrobium densiflorum*, *Dendrobium nobile*, *Renanthera imschootiana*, *Vanda cristata* etc. are being conserved in mini orchid houses.

12.2.3 Works taken up during 2019-2020 by Orchidology section

Orchid is one of the precious gift of nature for Mizoram. There use to be plenty of orchids in the Forest of Mizoram. But due to many reasons like jhuming system of cultivation, forest fire, illegal collection and development works like construction of roads etc. natural orchids in the State is depleting slowly. Luckily some orchid lovers come up with conservative mind of orchids in the State. In the year 1992, Environment, Forest & Climate Change Department established Orchidology Section under Conservator of Forest, Research & Development Circle. This Section comprises one Orchidologist with two Research Assistant and one Forest Guard. This Section carry out inventorisatation survey within the State, by making proper records, preparation of herbarium sheets etc. At present the herbarium sheets prepared by this Section are donated for Mizoram Forest Museum. Colour photo of 94 species of orchids are also displayed at Forest Museum.

From its establishment Orchidology Section carry out the inventorisatation of orchids in the State till date. Due to the lack of fund this work can not be performed quickly. But till date this Section has identified more than 140 species of orchids in the State. From the collection of different species of orchid in the State, this Section has published one book 'Orchids of Mizoram' in the year 2011. In this small book 83 species of orchids are mentioned with their colour photo. At present this Section has identified 53 species of orchids which are not mentioned in this book.

Mention may be made that Mizoram has some species of orchids which were mentioned in Wildlife Protection (Act) 1972, Scheduled VI, such as:-

1. *Vanda Coeruleae*
2. *Renanthera imschootiana*
3. *Paphiopedillum hirsussitimum*
4. *Paphiopedillum villosum*
5. *Paphiopedillum spicerianum*

To prevent the loss of orchids in the State, Orchidology Section has constructed mini orchid houses at Champhai DFO complex and Tlangnuam, Aizawl. In these places some natural and hybrid orchids are put for a show pieces. Last but not the least, it is a high time to alert and prevent a lost of natural orchids in the State.

12.2.4 Works taken up during 2018-2019 by Orchidology section

During the financial year 2018-2019, no fund was allotted for Orchidology Section. Still this Section aware of identification of orchids within the State of Mizoram. There are 10 species of new identification of orchids. Such as : -

1. *Gastrochilus dasypogon*
2. *Hydrochilus parishii*
3. *Vanda tastacea*
4. *Vanda tessellata*
5. *Vanda stangeneana*
6. *Coelogyne palniscapa*
7. *Eria lacei*
8. *Gastrochilus acaulis*
9. *Aerides multiflora*
10. *Thunia marshalliana*

12.3 MEDICINAL PLANTS OF MIZORAM

Adequate scientific research has not been carried out on occurrence (resource mapping), inventory assessment, possible end use (clinical trial), value addition (scientifically tested processing techniques), marketing of value added products for medicinal plants in Mizoram. Further, it appears that the unlimited knowledge of treating diseases with the use of plant extracts as possessed by the traditional healers has not been preserved completely. In other words, "Indigenous Knowledge System" for herbal medicines has not been fully documented.

In his book entitled "Ethno-Medicinal Plants of Mizoram", Lalramnghinglova, Dr. H. (2003) has presented a detailed account of 236 medicinal plants found in the State which include 64 threatened species and 62 newly recorded. The author has explored 62 new ethno-medicinal plants which have also been described in the book.

Another book namely "Ramhmul Damdawite" (Medicinal Plants) has been written in local 'Mizo' language by Rozika R. (2005). In this book, the author has given the details including (1) Botanical Name, (2) Family, (3) Local name, (4) Uses and (5) Parts used of 204 medicinal plants which have been reported to occur in the forest areas of the State. This book is extremely useful particularly for the rural people as it contains the details in local language. Bhardwaj and Gakhar (2005) have given the details of 17 species of plants belonging to 14 families which are used by the villagers in Mizoram to cure cuts and wounds. Shankar Rama and Rawat M.S. (2013) have given the details of traditional healing herbs used by the villagers in Aizawl and Mamit districts of the State for the treatment of several ailments.

12.3.1 Resource Augmentation

Well-planned schemes have been implemented in the State for enrichment and conservation of medicinal plants resources with technical and financial assistance from National Medicinal Plants Board, Ministry of AYUSH, Government of India. Proper measures are being taken to enrich the diversity (quality as well as quantity) of medicinal plants. It is expected that enrichment combined with efforts made for protection of existing inventory will result into good-quality forest cover carrying useful medicinal plants species.

Ex-situ conservation (off-site conservation) has been taken up for those species whose wild population has dwindled to critical levels. Emphasis has been given on rare, endangered

and threatened but indigenous species. Some of such species are *Phyllanthus emblica*, *Saraca asoca*, *Embelia ribes*, *Hydrocarpus kurzii*, *Oroxylum indicum* and *Aquilaria malaccensis*. The resource base of medicinal plants in high demand has also been augmented through artificial regeneration.

12.3.2 Setting up of Medicinal Plants Conservation Areas (MPCAs)

Provisions for proper treatments to such areas is another option which is extremely useful for conserving the diverse genetic base of medicinal plants. Sites rich in medicinal and aromatic plants (herbs, shrubs or trees) are identified and earmarked as MPCAs for conserving existing vegetation in their natural habitats. Floristic survey is carried out to document plants diversity and assess population status of prioritized species. Depending upon the existing population and the regeneration status, interventions for augmenting the resource base of medicinal plants in their natural habitats and carrying out sustainable harvest of medically useful parts of the plants are planned. Suitable species are planted on scattered vacant land (Aided Natural Regeneration) to enhance crop productivity. Various potential sites in the State located at places like Arleihnui (Serchhip District), Kharzawl Ram (Kolasib District), Kanneu Ram (Kolasib District) etc. have been earmarked as "Medicinal Plants Conservation Areas" for facilitating effective conservation of valuable medicinal plants existing in the forests. Some of the species being conserved at such sites are *Aporosa octandra* (Chhawntual), *Artocarpus chaplasha* (Tatkawng), *Aquilaria malaccensis* (Thingrai), *Bacaurea ramiflora* (Pangkai), *Callicarpa arborea* (Hnahkiah), *Carallia brachiata* (Theiria), *Clerodendrum infortunatum* (Phuihnachhia), *Dillenia indica* (Kawrthindeng), *Duabanga grandiflora* (Zuang), *Phyllanthus emblica* (Sunhlu), *Embelia ribes* (Naufadawntuai), *Ficus semicordata* (Theipui), *Garcinia paniculata* (Vawmva), *Hydnocarpus kurzii* (Khawitur), *Homalomena aromatica* (Anchiri), *Oroxylum indicum* (Archangkawm), *Pterygota alata* (Thingvandawt), *Saraca asoca* (Mualhawih), *Syzygium cumini* (Lenhmui), *Terminalia chebula* (Reraw), *Toona ciliata* (Teipui) etc.

During 2010–2011 to 2015–2016, three types of medicinal plant projects financed by Ministry of AYUSH (NMPB) had been carried out such as Resource Augmentation of Rare, Endangered and Threatened and Prioritized species, establishment of NPCA and re-generation of perennial herbs and shrubs.

12.3.3 Achievement under NMPB funded project during 2019–2020

National Medicinal Plants Board funded project is an ongoing scheme. However, during 2019–2020 financial year, sanction for implementing the scheme has not received.

12.4 BROOMSTICK

Broomgrass (*Thysonalaena maxima*) is perennial and high value cash crop having wide range of agro-climatic conditions. Mizoram is very rich in broomstick resources which spread all over the State more so in the western belts. Apart from wild and natural broomstick, the cultivation has been operated as one of the trades under a flagship programme of New Land Use Policy (NLUP) under Soil & Water Conservation department which provides sustenance to a number of rural poor families.

Every year, EF&CC Department is earning considerable amount of revenue from broomstick through mahal and by permit system. Revenue earned from broomstick by the department for the last five years is to the tune of Rs. 1,64,77,401.00/-. The year wise breakup of which is as indicated below :-

Year	Revenue earned
2012 – 2013	Rs. 20,94,565.00
2013 – 2014	Rs. 16,57,171.00
2014 – 2015	Rs. 18,93,732.00
2015 – 2016	Rs. 73,66,885.00
2016 – 2017	Rs. 22,18,243.00
2017 – 2018	Rs. 24,03,645.00
2018 – 2019	Rs. 12,46,805.00
2019 – 2020	Rs. 23,82,788.00
2021 – 2022	Rs. 96,11,715.00
2022 – 2023	Rs. 1,47,26,930.00
2023 – 2024	50,63,512.00
Total	Rs. 4,58,79,558.00

Note: The above figure is the total of royalty realized by the department from NLUP broomstick @ Rs 1/kg for those going outside the state and @ Rs 7/kg for Non-Private/NLUP broomstick.

12.4.1 Revenue receipts from broomstick during 2023– 2024

Item	Permit/Seized	Quantity (in nos)	Amount received (in Rs)
Broomstick	Legal	38510.09	2751092.00
	Seized	7069.7	723170.00
	Private	19051.50	1589250.00
Total		64631.29	5063512.00

12.5 ANCHIRI

Anchiri (*Homalomena aromaticus*) is one species producing important Non Timber Forest Produce (NTFP) in Mizoram which spread more or less uniformly throughout the State. However, the exact quantum of this resource has not been scientifically assessed by the department till today. At the same time, illegal extraction of the rhizome of Anchiri has been quite rampant due to growing demands and pressures for extractions

Owing to its commercial and industrial importance, there has been necessity of adopting sustainable management practices, the Government has put a ban on its collection for few years to avoid overharvesting. However, the Government has now lifted ban of extraction of Anchiri except from Protected Areas and permit for its regulated extractions have been issued by various territorial DFOs. In order to regulate sale of Anchiri through permit system, the department is trying to adopt uniform and scientific formula for fixing floor price per unit (kg) both in dry and green form.

Year	Permit/Seized	Quantity	Amount received
2014-15	Seized	16,717 qntls.	Rs. 9,79,854.00
2015-16	Permit	1,132 qntls.	Rs.17,40,800.00
	Seized	1571 qntls.	Rs.11,11,228.00
Total		19,420 qntls.	Rs. 28,52,028.00

2017-18	Permit	2496.8 qntls	Rs. 7,33,120.00
	Seized	109.96 qntls.	Rs. 76,970.00
Total		2,606.76 qntls.	Rs. 8,10,090.00
2018-19	Legal	1195.07 qntls.	Rs. 14,34,294.00
	Seized	43.3 qntls.	Rs. 2,42,115.00
Total		1238.37 qntls.	Rs. 16,76,409.00
2019-20	Legal	18.41 qntls.	Rs. 2,2100.00
	Seized	88.44 qntls.	Rs. 1,06,137.00
Total		106.85 qntls.	Rs. 1,28,237.00
2020-21	Legal	332.27 qntls.	Rs. 3,98,730.00
	Seized	141.78 qntls.	Rs. 17,0,140.00
Total		474.05 qntls.	Rs. 5,68,870.00
2021-22	Legal	4077.06 qntls.	Rs. 7,09,758.00
	Seized	120.00 qntls.	Rs. 32,800.00
Total		4,197.06 qntls.	Rs. 7,42,558.00
2022-23	Legal	2325.00 qntls.	Rs. 24,66,250.00
	Seized	77.20 qntls.	Rs. 59,220.00
Total		2,402.20 qntls.	Rs. 25,25,470.00
2023-24	Legal	6762.00	1,66,476.00
	Seized	133.38	51,730.00
Total		6,859.38	Rs. 2,18,206.00
Grand Total		37,945.67.00 qntls.	Rs. 1,05,04,639.00

12.6 CANE (RATTAN)

Cane is one of the most important items of NTFP in Mizoram and is distributed sporadically throughout the State. As per the record of survey conducted by a researcher (Prof. Lalnuntluanga, MZU), different species of canes are found in various forest areas of Mizoram viz. Dampa Tiger Reserve, Dampui forest of Mamit District, forest areas of Saipum, Kolasib and Bairabi of Kolasib district, Ngengpui Wildlife Sanctuary, Palak lake and its surrounding areas, Phawngpui National Park, Tawi Wildlife Sanctuary, forest areas of Chalfilh, Lungkawlh, Khawzawl, Murlen and Thorangtlang Wildlife Sanctuary and in many other forest areas of Mizoram. At the same time, exact resources of various cane species of the State have not been scientifically surveyed.

Based on study (survey) made during 2002-2005, a total of 12 species of rattans belonging to four genera viz. *Calamus*, *Daemanorops*, *Plectocomia* and *Zalacca* have been recorded/identified from Mizoram.

12.6.1 *Callamus* species growing in Mizoram are:

SN	Scientific Name	Local Name
1	<i>Callamus acanthospathus</i>	Thilte
2	<i>Callamus erectus</i>	Thilthek
3	<i>Callamus flagellum</i>	Hruipui

4	<i>Callamus gracilis</i>	Kawrtai
5	<i>Callamus guruba</i>	Taite/Tairua
6	<i>Callamus inermis</i>	Mitperh
7	<i>Callamus khasianus</i>	Mawt
8	<i>Callamus nambarientis</i>	Mawtpui
9	<i>Callamus tenuis</i>	Changdam



Pic : Dawkek



13 | WORKING PLAN AND MANAGEMENT PLAN

13.1. ACHIEVEMENTS ON WORKING PLAN IN MIZORAM

The first approved Working Plan of the State is Working Plan for Kawrthah Forest Division for a period of 2005-2006 to 2015-2016 prepared by Shri Lalthangliana Murray, IFS, the then DCF(Working Plan Division). The approval of Working Plan was given by Government of India vide letter No.12-5-38/2006/RONE-MZ (Kawrthah)/1423-25 dated 25.7.2006. Later on, after almost a decade, Working Plan of Autonomous District Council (CADC), Lunglei Forest Division, North Vanlaiphai Forest Division written by Shri MZ Singson, MFS, the then WPO(S) were approved by Government of India in 2013. The period of these Working Plans are 2013-2014 to 2023-2024.

13.2 | ALTERATION IN FOREST AREA DURING 2023- 2024

SI/ No.	Name/Class of forest	Area (in Ha) as on		Change (+) or (-)	Remarks
		31.03.2023	31.03.2024		
1	Riverine Reserved Forest	1)Khawthlang tuipui	140.7 sq.km/ 14070 ha	Nil	Notifica- tion No.ADC supplement to the As- sam Gazette Dt.19.5.1965 under section 14&21 of the Mizo District (Forest Act 1955)
		2)Tuichawng	54 sq.km/5400ha	Nil	
		3)Kau	35.6 sq.km/3560ha.	Nil	
		4)De	45.2 sq.km/4520 ha.	Nil	
		5)Phairuang	72.8 sq.km/7280 ha.	Nil	
		Sub-Total	348.3 sq.km/ 34830 ha.		
2	Roadside Reserved Forest	Nil	Nil	Nil	
3	Innerline Reserved Forest	Nil	Nil	Nil	
4	Protected Area (NP & WLS)	Nil	Nil	Nil	
5	Other Reserved Forest a) Puankhai RF				
		271.8 Sq.km/ 27180 ha.	271.8 Sq.km/ 27180 ha.	Nil	
	Total	620.1 sq.km/ 62010 ha.	620.1 sq.km/ 62010 ha.	Nil	

Note : Additional or exclusion in forest areas, if any, may be explained below the table.

13.3 | NON-NOTIFIED VILLAGE FORESTS AS ON 31.03.2024

SI/ No.	Name of Village	Name of Village Forest (Supply or Safety Reserve)	Location	Area (Ha)	Present status/condition of the village forest
1	Tlabung	Safety Reserved	Pu P Saichhunga huan leh Pu Hrangthuama Tuikhur inkar	1	Moderately dense Forest (MDF)
		Supply Reserved	Suarherawt ral	5	Moderately dense Forest (MDF)
2	Zodin	Safety Reserved	Sakuh Tui hnar	5	Moderately dense Forest (MDF)
3	Rangte	Supply Reserved Forest	Chawngte kawng chung leh kawngchhak	40	Moderately dense Forest (MDF)
		Safety Reserved Forest	Khaw chung leh khurpui hnar	30	Moderately dense Forest (MDF)
4	Rotlang 'W'	Safety Reserved	Major lui ngaw	20	Moderately dense Forest (MDF)
5	Lungsen	Safety Reserved Forest	1) Daiawih	30	Moderately dense Forest (MDF)
			2) Tuifar ram	30	
		Supply Reserved Forest	1) Hmarveng mauhak	50	
			2) Chhimveng mauhak (Belthei kawng)	50	
			3) Venglai thlanmual	40	
6	Lungrang 'S'	Supply Reserved	Lungrang 'S' kawng hnuai	100	Moderately dense Forest (MDF)
		Tree cover areas	Lungrang ngaw	50	Moderately dense Forest (MDF)
7	Rualalung	Supply Reserved	P.W.D road Lunglei kawng	100	Moderately dense Forest (MDF)
8	Sailen	Supply Reserved	Khawbul	50	Moderately dense Forest (MDF)
		Total		646	

13.4. | COMMUNITY FORESTS/YMA RESERVES AS ON 31.03.2024

SI/ No.	Name of Village	Name of Village Forest (Supply or Safety Reserve)	Location	Area (Ha)	Present status/ condition of the village forest
1	Chawilung	YMA Chawilung Branch	Chawilung khawhlui tlang	2	Moderately dense Forest (MDF)
2	Chawnpui	Sakuh tui hnar	Zodin Water Complex	7	Moderately dense Forest (MDF)
3	Tlabung	YMA Park	Bindasora thlen hma chhuka dinglam	5	Moderately dense Forest (MDF)
4	Lungsen 'N' Branch YMA	YMA ram	Mel veng	50	Moderately dense Forest (MDF)
5	Lungsen 'S' Branch YMA	YMA ram	Rotlang hmunhlui	30	Moderately dense Forest (MDF)
6	Lungsen Veng- lai Branch YMA	YMA ram	Sihphir thlanmual thlang		Moderately dense Forest (MDF)
7	Rangte Branch YMA	YMA ram	Rangte khaw chung	30	Very Dense Forest (VDF)
8	Tuikawi Branch YCA	YCA ram	Boa tlakna li chhak	20	Very Dense Forest (VDF)
9	Chawngte 'L'	YMA ram	Sairillui hnar	50	Very Dense Forest (VDF)
10	Rualalung	YMA ram	Kham chung ngaw	100	Very Dense Forest (VDF)
11	Lungrang 'S'	YMA ram	Khaupui kham tlang	50	Moderately dense Forest (MDF)
12	Old Lungrang	YMA ram	Seletlang tlir ram	50	Moderately dense Forest (MDF)
		Total		427	

13.5. | PRIVATE FORESTS / PLANTATIONS – 2023 – 2024

SI/ No.	Private tree Plantation	No. of plantation & area as on				Remarks
		No.	Area	No.	Area	
1	Registered private plantation in non-Forest land			27	46.13 ha.	
2	Registered private plantation in Forest land			Nil	Nil	
3	Non-registered private plantation in Non-forest land			Nil	Nil	
4	Non-registered private plantation in forest land	-	-	-	-	
	Total			27	46.13 ha.	

13.6. | FELLING PERMIT ISSUED IN PRIVATE PLANTATION RAISED IN NON-FOREST LAND DURING 2023-2024

SI/ No.	Range	No. of felling permit issued	No. of trees allowed to be felled	No. of trees actually to be felled
1	Tlabung	2	270	270
2	Lungsen	15	2942	2942
3.	Chawngte 'L'	18	3920	3920
	Total	35	7132	7132

13.7. | BUILDING CONSTRUCTED / MAINTAINED DURING 2023 – 2024

SI/ No	Name of Building	Location / Range	Scheme	New construction or maintenance	Amount (in lakh)
1.	Repair and Renovation of Forest Rest House	Tlabung Range	M.W	Maintenance	5.00
2.	Repair of F/G Quarter	Tlabung	M.W	Maintenance	0.50
3.	Repair of ACF Quarters	Tlabung	M.W	Maintenance	0.50
4.	Repair of Forest Guard Quarters	Phairuangkai	M.W	Maintenance	0.50
5.	Repair of Forest Beat Complex	Tuichawng	M.W	Maintenance	0.50
6.	Repair of Forest Beat Office	Lungrang 'S'	M.W	Maintenance	1.00
7.	Construction of Brickwall fencing of Range Complex	Chawngte 'L'	M.W	New Construction	3.00
	Total :				11.00

13.8. OTHER ASSETS (FENCING, RETAINING WALL, WATER STORAGE STRUCTURE, ETC) CREATED/ MAINTAINED DURING 2023 - 2024

Sl. No.	Name of asset	Location / Range	Length/ Volume	Scheme	New construction or maintenance	Amount (in lakh)
1.	Construction of fencing of DFO Complex Lunglei road to AH & Vety Complex	Tlabung	333 mts	M.W	New Construction	4.00
2.	Construction of approach road (PCC) to Forest Range Complex	Chawngte 'L'	18 mts	M.W	New Construction	1.00
3.	Construction of Brick wall fencing Range Complex	Chawngte 'L'	50 mts	M.W	New Construction	3.00
	TOTAL :					8.00

13.9. SUMMARY OF REVENUE COLLECTED DURING 2023-2024

Sl. No.	Source of revenue	Qty	Amount (in Rs)
1.	Sale proceed of illegal sawn timber	1.6975CuM	7,200
2.	Sale proceed of seized sawn timber	1.42CuM	6,000
3.	Sale proceed of legal round timber	915.001CuM	1,22,41,850
4.	Sale proceed of seized round timber	9.434m³	2,43,000
5.	Royalty /charges for extraction of bamboo from the forest including fine & auction	61856 Nos.	2,07,235
6.	Royalty /charges for extraction of broomstick from forest including aucion		
7.	Administrative charges for export of private broomstick	4850 Qtls	4,85,000
8.	Royalty /charges for extraction of Anchiri (including auction & fine)	2 Qtls	3,600
9.	Royalty /charges for extraction of Stone, boulders etc	25 CuM	1,500
10.	Royalty /charges for extraction of Sand	286.872 CuM	33,790
11.	Royalty /charges for extraction of firewood		
12.	Royalty /charges for extraction of charcoal	43Qtl	2,150
13.	Royalty /charges for extraction of Dressed stone	1862m³	1,20,430
14.	Other (specify dugout boat auction)	Nil	Nil
15.	Royalty /charges for extraction of canes	Nil	Nil
16.	Other fees and fines		50,200
17.	Others (Please specify) Rent of FRH	-	5,150
18.	Nul Area Auction	-	44,700
	Total amount of revenue realized during the year		1,30,43,675

13.10. | SUMMARY OF EXPENDITURE INCURRED DURING 2023-2024

Sl. No.	Head of account / Name of Scheme	Expenditure (in lakh Rs.)			Remarks
1	001(02)(02) Salary (Admn.)	15,217,234	-	15,217,234	
2	001(02)(02) Wages	336,720	-	336,720	
3	001(02)(06) M.T	16,743	-	16,743	
4	001(02)(11) T.E	197,332	-	197,332	
5	001(02)(13) O.E	110,000	-	110,000	
6	001(02)(27) M.W.	-	-	-	
7.	001(02)(50) O.C	200,000		200,000	
	Sub-Total	16,078,029		16,078,029	
1	101(08)(02) Wages	240,000	-	240,000	
2	101(08)(27) M.W	4,000,000	-	4,000,000	
3	101(08)(50) O.C	100,000	-	100,000	
	Sub-Total	4,340,000		4,340,000	
1.	110(01)(50)-O.C	200,000	-	200,000	
	Sub-Total	200,000	-	200,000	
1.	001(01)(06)-M.T	290,329	-	290,329	
2.	001(01)(20)-OAE	40,000	-	40,000	
	Sub-Total :	330,329		330,329	
	GRAND TOTAL :	20,948,358		20,948,358	

Note : This should tally with progressive expenditure for March, 2023

13.11. | CAMPA ACTIVITIES 2023 - 2024

Sl. No.	Particulars	Seedlings Nos.	Area (Ha)		Remarks
1.	Advance work of ANR		130 ha.	1,482,000	
2.	2nd Year Maintenance of tall seedling for avenue Plantation	1,000 nos	-	150,000	
3.	Maintenance of fireline		28.9Km.	248,540	
4.	Engagement of fire watcher for 3 months	5 nos	-	171,000	
5.	Engagement of local Casual Staff for 6 months	3 nos.	-	205,200	
	TOTAL :			2,256,740	

Note : The item of works may be modified as per approved work programme and any other Schemes implemented by Divisions may be added.

13.12. | FIRE INCIDENCE DURING 2023-2024

Sl. No.	Name of Range where fire incidence occurred	No. of incidence	Area affected (Ha)	Remarks
A	In Forest/Plantation area	Nil	Nil	
	Sub-Total	Nil	Nil	
B.	In Non-Forest area (Community/private lands)	531	235.9	
	Sub-Total	531	235.9	
	Grand Total	531	235.9	

13.13. | FOREST OFFENCE CASES DURING 2023-2024

Sl. No.	Nature of Offence	No. of Cases	No. of cases compounded	No. of cases filed in Court	No. of cases disposed by Court	No. of cases pending in the Court	Remarks
1.	Illegal felling of Teak trees	5	1	Nil	Nil	Nil	
2.	Illegal collection of Sawn Timber	2	2	Nil	Nil	Nil	
3.	Illegal collection of Bamboo	26	26	Nil	Nil	Nil	
4	Illegal collection of Charcoal	Nil	Nil	Nil	Nil	Nil	

13.14. | NURSERY REGISTER SHOWING SPECIES WISE QUANTITY OF SEEDLINGS RAISED DURING 2023-2024

Sl. No.	Name of Nursery	Location	Area	Species raised	No. of seedlings raised	Remarks
1	Permanent Nursery (Tlabung Range)	Artah Tlabung	2.5 Ha.	1)Michelia champaca	4000	x
				2)Bambusa Tulda	14400	
				3)Mesua Ferrea	50	
				4)Antidesma bunius	200	
				5)Murraya koenigii	150	
				6)Litchi chinensis	140	
				7)Sarcospermagrifithii	150	
				8)Bischofia javanica	500	
				9)Tamarindus indica	350	
				10)Lagestroemia speciosa	500	
				11)Artocarpus heterophyllus	300	
				12)Anacardium occidentale	550	
				13)Cinnamomum verum	1400	
				14)Garcinia sopsopia	150	

				15)Baccaurea ramiflora	75	
				16)Bauhinia variegata	50	
				17)Mangifera indica	255	
				18)Delonix regia	120	
				19)Thuja orientalis	350	
				20)Sasoca osoca	450	
				21)Parkia timoriana	250	
				22) Onoxylum indicum	2000	
				23) Protium serratum	25	
				24) Bischofia javanica	1000	
				25) Sarcosparma grifithi	150	
				17)Mangifera indica	255	
				18)Delonix regia	120	
				19)Thuja orientalis	350	
				20)Sasoca osoca	450	
				21)Parkia timoriana	250	
				22) Onoxylum indicum	2000	
				23) Protium serratum	25	
				24) Bischofia javanica	1000	
				25) Sarcosparma grifithi	150	
				26) Amoora wallichii	150	
				27) Picrasma javanica	250	
				28) Schizostachyum dulloso	180	
				29) Bambusa bamboo	5852	
				30) Dendrocalamus latiflorus	260	
				31) Bambus balcooa	400	
				32) Syzygium cuminii	500	
				33) Azadirachta indica	700	
				34) Dillenia indica	31	
				36) Areca trianda	350	
				37) Cassia nodosa	85	
				38) Artocarpuslakoocha	150	
	Sub-Total :		2.5		37093	

2	NBM Nurs- ery (Lungsen Range)	Laldawt luikam Tui- chawng	2 Ha	1)Messua ferrea	1502	
				2)Cassia Nodasa	200	
				3)Accacia implexia	2000	
	FDA Nursery			4)Artocarpus chaplasha	2240	
				5)Delonix regia	386	
				6)Acerodendrum	200	
				7)Phyllanthus emblica	2210	
				8)Baccaurea ramiflora	772	
				9)Bischofia javanica	3158	
				10)Artocarpus heterophyllus	2385	
				11)Magnifera indica	2020	
				12)Syzygium cuminii	1666	
				13)Parkia timoriana	2554	
				14)Michelia ablonga	2800	
				15)Bauhinia variegata	464	
				16)Azadirachta indica	143	
				17)Tamarindus indica	180	
				18)Ligustrum robustum	561	
				19)Anacardum occidentale	1350	
				20)Cinnamonum verum	975	
				21) Litchi chinensis	180	
				22) Oroxylym indicum	888	
				23) Thujastandishii	3980	
				24) Prumusserasoides	300	
				25) Amoora wallichii	64	
				26) Terminalia chebula	1288	
				27) Artocarpus rekoocha	250	
	Sub-Total		2 Ha		34716	
3	NBM Nursery (Lungsen Range)	Chawng- te 'L'	Ha.	1)Michelia Champaca	3140	
				2)Bischofia javanica	1210	
				3)Terminalia myrocarpa	5500	
				4)Syzygium cuminii	1825	
				5)Mesua ferrea	1815	
				6)Thuja orientalis	800	
				7)Phyllunthus emblica	230	
				8)Oroxylum indicum	1108	
				9)Bambusa bamboos	4614	
				10) Artocurpus chaplasha	5680	
				11) Aquilaria malaccensis	1729	

				12) Lagerstroemia speciosa	3812	
	Sub-Total		0.29		31463	
	Grand Total		4.79		103272	

13.15.| FOREST REST HOUSES

Sl. No.	Location of FRH	Year of Construction	Cost of Construction (in lakh)	Amount in Rupees during 2023-2024
1	Forest Range Complex, Tlabung	1995-1996	3.37	
2	Lungsen Forest Range	2013-2014	20.00	
	Total	23.37	5,150/-	

14

Revenue Receipts

14.1 STATEMENT SHOWING DIVISION-WISE REVENUE RECEIPT DURING 2023-2024 NAME OF CIRCLE : NORTHERN CIRCLE

14.1.1. Name of Divisions - Aizawl, Champhai and Thenzawl

SN	Items	Unit	Aizawl		Champhai		Thenzawl		Total	
			Qnty	Amt	Qnty	Amt	Qnty	Amt	Qnty	Amt
1	2	3	4	5	6	7	8	9	10	11
A. WOOD PRODUCT										
1	Sawn Timber	cum	54.51	569742.00	-	-	16.20	68590.00	70.70	638332.00
			986.51	3389124.00	995.20	1314873.00	295.42	910620.00	2277.13	5614617.00
			110.00	13300.00	-	-	-	-	110.00	13300.00
2	Round Timber	cum	-	-	-	-	-	-	-	-
			-	-	-	-	32.05	625500.00	32.05	625500.00
			-	-	-	-	-	-	-	-
3	Hard-wood	cum	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
4	Poles	Nos	178	2944.00	-	-	-	-	178	2944.00
			1323	11080.00	-	-	7-	50000.00	1330	61080.00
			210	2100.00	-	-	-	-	210	2100.00
5	Fire-wood	cum	37.00	12050.00	-	-	26.66	5100.00	63.66	17150.00
			1210.92	169030.00	1292.28	66000.00	12.60	5400.00	2515.80	240430.00
			-	-	-	-	-	-	-	-
6	Wood Charcoal	Qtls	60.00	3050.00	-	-	70.00	3500.00	130.00	6550.00
			822.00	42550.00	26564.00	1328550.00	-	-	27386.00	1371100.00
			-	-	-	-	-	-	-	-
	Total A	-		4214970.00	-	2709423.00		1668710.00		8593103.00

14.1.2. Name of Divisions – Aizawl, Champhai and Thenzawl

SN	Items	Unit	Aizawl		Champhai		Thenzawl		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11
B. NON-WOOD FOREST PRODUCT										
1	Bamboo	Nos	27960	177150.00	-	-	14325	33650.00	42285	210800.00
			134110	623360.00	6	600.00	4000	21000.00	138116	644960.00
			54760	54760.00	-	-	-	-	54760	54760.00
2	Broom-stick	Qtls	10.00	4000.00	-	-	-	-	10.00	4000.00
			20.00	15500.00	-	-	-	-	20.00	15500.00
			-	-	-	-	6118.50	611850.00	6118.50	611850.00
3	Cane	Rm	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
4	Anchiri	Qtls	-	-	-	-	-	-	-	-
			-	-	105.90	31770.00	0.78	1540.00	106.68	33310.00
			-	-	-	-	-	-	-	-
5	Boulder	cum	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
6	Dressed Stone	cum	2400.00	144000.00	-	-	-	-	2400.00	144000.00
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
7	Gravel	cum	3400.00	204000.00	-	-	-	-	3400.00	204000.00
			2300.00	96800.00	-	-	-	-	2300.00	96800.00
			-	-	-	-	-	-	-	-
8	Sand	cum	1312.00	91920.00	-	-	96	3840.00	1408.00	95760.00
			467.00	33520.00	-	-	190.00	22800.00	657.00	56320.00
			-	-	-	-	-	-	-	-
9	ADM Charge	cum	5706.00	52920.00	.	.	2236.00	22360.00	7942.00	75280.00
	Total			1497930.00		32370.00		717040.00		2247340.00

14.1.3. Name of Divisions – Aizawl, Champhai and Thenzawl

SN	Items	Unit	Aizawl		Champhai		Thenzawl		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11
C. OTHER RECEIPTS										
1	Fees & Fines	LS	-	3000.00	-	1499600.00	-	160440.00	-	1663040.00
2	Rent of FRH etc	LS	-	82450.00	-	19600.00	-	50070.00	-	152120.00
3	Zoo entry fee	LS	-	-	-	-	-	-	-	-
4	NP/WLS Entry Fee	LS	-	-	-	-	-	-	-	-
5	Auction (specify)	LS	-	-	-	-	-	-	-	-
6	Others	LS	-	9250.00	-	-	-	79005.00	-	88255.00
	Total		-	94700.00	-	1519200.00	-	289515.00	-	1903415.00
	GRAND TOTAL (A+B+C)			5807600.00		4260993.00		2675265.00		12743858.00

14.1.4. Name of Divisions – Lunglei, Tlabung, Thenzawl and N. Vanlaiphai

SN	Items	Unit	Lunglei		Tlabung		N. Vanlaiphai		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11
A. WOOD PRODUCT										
1	Sawn Timber	cum	34.48	146270.00	0.99	4200.00	2.26	7120.00	37.73	157590.00
			56.00	239120.00	2.12	9000.00	40.28	161410.00	98.40	409530.00
			-	-	-	-	3.96	3500.00	3.96	3500.00
2	Round Timber	cum	-	-	915.00	12241850.00	-	-	915.00	12241850.00
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
3	Hard-wood	cum	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
4	Poles	Nos	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
5	Fire-wood	cum	-	-	-	-	-	-	-	-
			342.60	18050.00	-	-	195.50	37400.00	538.10	55450.00
			-	-	-	-	110.00	12200.00	110.00	12200.00
6	Wood Charcoal	Qtls	-	-	43.00	2150.00	-	-	43.00	2150.00
			22.00	1100.00	-	-	686.00	34300.00	708.00	35400.00
			-	-	-	-	-	-	-	-
	Total A	-		404540.00		12257200.00		255930.00		12917670.00

14.1.5. Name of Divisions - Lunglei, Tlabung, Thenzawl and N. Vanlaiphai

SN	Items	Unit	Lunglei		Tlabung		N. Vanlaiphai		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11
B. NON-WOOD FOREST PRODUCT										
1	Bamboo	Nos	2900	5800.00	51976	127640.00	-	-	54876	133440.00
			56430	112860	23259	79595.00	-	-	79689	192455.00
			-	-	-	-	430	860.00	430	860.00
2	Broom-stick	Qtls	-	-	240.00	24000.00	-	-	240.00	24000.00
			70.00	7000.00	-	-	-	-	70.00	7000.00
			-	-	4610.00	461000.00	-	-	4610.00	461000.00
3	Cane	Rm	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
4	Anchiri	Qtls	-	-	-	-	-	-	-	-
			-	-	2.00	3600.00	-	-	2.00	3600.00
			-	-	-	-	-	-	-	-
5	Boulder	cum	-	-	25.00	1500.00	-	-	25.00	1500.00
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
6	Dressed Stone	cum	-	-	-	-	-	-	-	-
			210.00	7350.00	-	-	-	-	210.00	7350.00
			-	-	-	-	-	-	-	-
7	Gravel	cum	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
8	Sand	cum	-	-	286.84	30190.00	-	-	286.84	30190.00
			-	-	35.00	3600.00	-	-	35.00	3600.00
			-	-	-	-	-	-	-	-
9	ADM Charge	cum	-	-	-	-	-	-	-	-
	Total			133010.00		731125.00		860.00		864995.00

14.1.6. Name of Divisions – Lunglei, Tlabung, Thenzawl and N. Vanlaiphai

SN	Items	Unit	Lunglei		Tlabung		N. Vanlaiphai		Total	
			Qnty	Amt	Qnty	Amt	Qnty	Amt	Qnty	Amt
1	2	3	4	5	6	7	8	9	10	11
C. OTHER RECEIPTS										
1	Fees & Fines	LS	-	140800.00	-	50200.00	-	-	-	191000.00
2	Rent of FRH etc	LS	-	19300.00	-	5150.00	-	110400.00	-	134850.00
3	Zoo entry fee	LS	-	-	-	-	-	-	-	-
4	NP/WLS Entry Fee	LS	-	-	-	-	-	-	-	-
5	Auction (specify)	LS	-	-	-	-	-	-	-	-
6	Others	LS	-	373000.00	-	-	-	2750.00	-	375750.00
	Total		-	533100.00	-	55350.00	-	113150.00	-	701600.00
	GRAND TOTAL (A+B+C)		-	1070650.00	-	13043675.00	-	369940.00		14484265.00

14.1.7. Name of Divisions – Kolasib, Mamit, Kawrthah and Darlawn

SN	Items	Unit	Kolasib		Mamit		Kawrthah		Darlawn		Total	
			Qnty	Amt	Qnty	Amt	Qnty	Amt	Qnty	Amt	Qnty	Amt
1	2	3	4	5	6	7	8	9	10	11	12	13
A. WOOD PRODUCT												
1	Sawn Timber	cum	12187.39	1408235.00	-	-	26.18	453865.00	-	-	12213.57	1862100.00
			27167.47	7548170.00	1652.57	1150522.00	132.74	324371.00	132.94	566620.00	29085.72	9589683.00
			-	-	-	-	-	-	-	-	-	-
2	Round Timber	cum	-	-	-	-	57.67	1216485.00	-	-	57.67	1216485.00
			1620.62	1341940.00	-	-	-	-	-	-	1620.62	1341940.00
			125.00	1250.00	-	-	-	-	-	-	125.00	1250.00
3	Hard-wood	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
4	Poles	Nos	-	-	1190	11900.00	-	-	-	-	1190	11900.00
			293.00	5380.00	1190	11900.00	-	-	-	-	1483.00	17280.00
			-	-	-	-	-	-	-	-	-	-
5	Fire-wood	cum	-	-	-	-	-	-	-	-	-	-
			131.47	25157.00	14.00	822.00	-	-	-	-	145.47	25979.00
			26.00	1400.00	-	-	15.00	870.00	-	-	41.00	2270.00
6	Wood Charcoal	Qtls	-	-	-	-	-	-	28.00	1400.00	28.00	1400.00
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
	Total A	-		10331532.00		1175144.00		1995591.00		568020.00		14070287.00

14.1.8. Name of Divisions – Kolasib, Mamit, Kawrthah and Darlawn

SN	Items	Unit	Kolasib		Mamit		Kawrthah		Darlawn		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11	12	13
B. NON-WOOD FOREST PRODUCT												
1	Bamboo	Nos	142463	286420.00	288225	426850.00	35735	44550.00	-	-	443938	757820.00
			55980	117460.00	220360	437450.00	3035.00	319660.00	-	-	312075	874570.00
			79753	142370.00	-	-	250.00	6970.00	-	-	82788.00	149340.00
2	Broom-stick	Qtls	25755.97	1387842.00	10973.00	1115100.00	-	34000.00	1281.12	186150.00	38260.09	2723092.00
			1122.20	115820.00	5857.5	584850.00	7283.00	-	-	-	6979.70	700670.00
			1040.00	104000.00	-	-	-	412400.00	-	-	8323.00	516400.00
3	Cane	Rm	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
4	Anchiri	Qtls	71.00	12900.00	6652.00	151776.00	-	-	39.00	1800.00	6762.00	166476.00
			24.7	14820.00	-	-	-	-	-	-	24.70	14820.00
			-	-	-	-	-	-	-	-	-	-
5	Boulder	cum	2577.00	154790.00	-	-	1538.60	-	-	-	2577.00	154790.00
			3075	1092500	-	-	-	238400.00	-	-	4613.60	1330900.00
			-	-	-	-	-	-	-	-	-	-
6	Dressed Stone	cum	1.00	2400.00	300.00	18000.00	-	-	250.00	15000.00	551.00	35400.00
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
7	Gravel	cum	3339.70	233779.00	142.00	19740.00	-	-	-	-	3481.70	253519.00
			-	-	272.00	81040.00	-	-	-	-	272.00	81040.00
			545.00	228900.00	-	-	-	-	-	-	545.00	228900.00
8	Sand	cum	11406.1	456530.00	5694.20	235060.00	89.24	-	-	-	17100.30	691590.00
			3691.12	579690.00	3656.97	310138.00	-	9290.00	-	-	7437.33	899118.00
			854.00	51270.00	-	-	-	-	-	-	854.00	51270.00
9	ADM Charge	cum	5713.00	74920.00	20184.00	202032.00	-	30000.00	-	-	25897.00	306952.00
	Total			5056411.00		3582036.00		1095270.00		202950.00		9936667.00

14.1.9. Name of Divisions – Kolasib, Mamit, Kawrthah and Darlawn

SN	Items	Unit	Kolasib		Mamit		Kawrthah		Darlawn		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11	12	12
C. OTHER RECEIPTS												
1	Fees & Fines	LS	-	129000.00	-	225949.00	-	1052160.00	-	127680.00	-	1534789.00
2	Rent of FRH etc	LS	-	93800.00	-	2100.00	-	17200.00	-	20400.00	-	133500.00
3	Zoo entry fee	LS	-	-	-	-	-	-	-	-	-	-
4	NP/WLS Entry Fee	LS	-	-	-	-	-	-	-	-	-	-
5	Auction (specify)	LS	-	-	-	-	-	-	-	-	-	-
6	Others	LS	-	251310.00	-	4185.00	-	432800.00	-	-	-	688295.00
	Total		-	474110.00	-	232234.00	-	1502160.00	-	148080.00	-	2356584.00
	GRAND TOTAL (A+B+C)		-	15862053.00	-	4989414.00	-	4593021.00		919050.00	-	26363538.00

14.1.10. Name of Divisions – Aizawl, Khawzawl, Chhimtuipui and Dampa Tiger Reserve

SN	Items	Unit	Aizawl		Khawzawl		Chhimtuipui		Dampa Tiger Reserve		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11	12	13
A. WOOD PRODUCT												
1	Sawn Timber	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	514.80	59800.00	-	-	-	59800.00
			-	-	-	-	-	-	-	-	-	-
2	Round Timber	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
3	Hard-wood	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
4	Poles	Nos	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
5	Fire-wood	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
6	Wood Charcoal	Qtls	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
	Total A	-	-	-	-	-	-	59800.00	-	-	-	59800.00

14.1.11. Name of Divisions – Aizawl, Khawzawl, Chhimtuipui and Dampa Tiger Reserve

SN	Items	Unit	Aizawl		Khawzawl		Chhimtuipui		Dampa Tiger Reserve		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11	12	13
B. NON-WOOD FOREST PRODUCT												
1	Bamboo	Nos	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
2	Broom-stick	Qtls	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
3	Cane	Rm	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
4	Anchiri	Qtls	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
5	Boulder	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
6	Dressed Stone	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
7	Gravel	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
8	Sand	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
9	ADM Charge	cum	-	-	-	-	-	-	-	-	-	-
	Total		-	-	-	-	-	-	-	-	-	-

14.1.12. Name of Divisions – Aizawl, Khawzawl, Chhimtuipui and Dampa Tiger Reserve

SN	Items	Unit	Aizawl		Khawzawl		Chhimtuipui		Dampa Tiger Reserve		Total	
			Qnty	Amt	Qnty	Amt	Qnty	Amt	Qnty	Amt	Qnty	Amt
1	2	3	4	5	6	7	8	9	10	11	12	13
C. OTHER RECEIPTS												
1	Fees & Fines	LS	-	-	-	11550.00	-	2000.00	-	-	-	13550.00
2	Rent of FRH etc	LS	-	4700.00	-	4500.00	-	2000.00	-	20350.00	-	31550.00
3	Zoo entry fee	LS	50875.00	788320.00	-	-	-	-	-	-	50875.00	788320.00
4	NP/WLS Entry Fee	LS	-	-	-	-	-	-	-	-	-	-
5	Auction (specify)	LS	-	-	-	-	-	-	-	-	-	-
6	Others	LS	-	169850.00	-	300000.00	-	-	-	-	-	469850.00
	Total		-	962870.00	-	316050.00	-	4000.00	-	20350.00	-	1303270.00
	GRAND TOTAL (A+B+C)		-	962870.00	-	316050.00	-	63800.00		20350.00	-	1363070.00

14.1.13. Name of Divisions – Protection, Extension, WPO 'N' and WPO 'S'

SN	Items	Unit	Protection		Extension		WPO 'N'		WPO 'S'		Total	
			Qnty	Amt	Qnty	Amt	Qnty	Amt	Qnty	Amt	Qnty	Amt
1	2	3	4	5	6	7	8	9	10	11	12	13
A. WOOD PRODUCT												
1	Sawn Timber	cum	92.44	5407042.00	-	-	-	-	-	-	92.44	5407042.00
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
2	Round Timber	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
3	Hard-wood	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
4	Poles	Nos	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
5	Fire-wood	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
6	Wood Charcoal	Qtls	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
	Total A	-	-	5407042.00	-	-	-	-	-	-	-	5407042.00

14.1.14. Name of Divisions - Protection, Extension, WPO 'N' and WPO 'S'

SN	Items	Unit	Protection		Extension		WPO 'N'		WPO 'S'		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11	12	13
B. NON-WOOD FOREST PRODUCT												
1	Bamboo	Nos	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
2	Broom-stick	Qtls	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
3	Cane	Rm	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
4	Anchiri	Qtls	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
5	Boulder	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
6	Dressed Stone	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
7	Gravel	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
8	Sand	cum	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
9	ADM Charge	cum	-	-	-	-	-	-	-	-	-	-
	Total		-	-	-	-	-	-	-	-	-	-

14.1.15. Name of Divisions – Protection, Extension, WPO 'N' and WPO 'S'

SN	Items	Unit	Protection		Extension		WPO 'N'		WPO 'S'		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11	12	12
C. OTHER RECEIPTS												
1	Fees & Fines	LS	-	-	-	-	-	-	-	-	-	-
2	Rent of FRH etc	LS	-	-	-	-	-	-	-	-	-	-
3	Zoo entry fee	LS	-	-	-	-	-	-	-	-	-	-
4	NP/WLS Entry Fee	LS	-	-	-	-	-	-	-	-	-	-
5	Auction (specify)	LS	-	-	-	-	-	-	-	-	-	-
6	Others	LS	-	5000.00	-	-	-	-	-	-	-	5000.00
	Total		-	5000.00	-	-	-	-	-	-	-	5000.00
	GRAND TOTAL (A+B+C)		-	5412042.00	-	-	-	-	-	-	-	5412042.00

14.2. STATEMENT SHOWING REVENUE RECEIPT DURING 2023-2024

A. WOOD PRODUCT (amount in Rupees)										
SN	Items	Unit	Legal		Seized		Private		Total	
			Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1	2	3	4	5	6	7	8	9	10	11
1	Sawn Timber	cum	12414.45	3198764.00	31976.05	15673630.00	113.96	16800.00	44504.46	18889194.00
2	Round Timber	cum	972.67	13458335.00	1652.67	1967440.00	125.00	1250.00	2750.34	15427025.00
3	Hardwood	cum	-	-	-	-	-	-	-	-
4	Poles	Nos	1368	14844.00	2813	78360.00	210.00	2100.00	4391.00	95304.00
5	Firewood	cum	63.66	17150.00	3199.37	321859.00	151.00	14470.00	3414.03	353479.00
6	Wood Charcoal	Qtls	201.00	10100.00	28094.00	1406500.00	-	-	28295.00	1416600.00
	Total of A	-		16699193.00		19447789.00		34620.00		36181602.00
B. N.T.F.P										
1	Bamboo	Nos	541099	1102060.00	529880	1711985.00	137978	204960.00	1208957	3019005.00
2	Broomstick		38510.09	2751092.00	7069.7	723170.00	19051.50	1589250.00	64631.29	5063512.00
3	Cane	Rm	-	-	-	-	-	-	-	-
4	Anchiri	Qtls	6762.00	166476.00	133.38	51730.00	-	-	6895.38	218206.00
5	Boulder	cum	2602.00	156290.00	4613.00	1330900.00	-	-	7215.00	1487190.00
6	Dressed Stone	cum	2951.00	179400.00	210.00	7350.00	-	-	3161.00	186750.00
7	Gravel	cum	6881.70	457519.00	2572.00	177840.00	545.00	228900.00	9998.70	864259.00
8	Sand	cum	18795.14	817540.00	8129.33	959038.00	854.00	51270.00	27778.47	1827848.00
9	ADM Charge	LS	33839.00	382232.00	-	-	-	-	33839.00	382232.00
	Total of B			6012609.00		4962013.00		2074380.00		13049002.00

C. OTHER RECEIPT									
1	Fees & Fines	LS	-	3402379.00	-	-	-	-	3402379.00
2	Zoo Entry Fees	LS	50875.00	788320.00	-	-	-	50875.00	788320.00
3	Rent of FRH	LS	-	452020.00	-	-	-	-	452020.00
4	Others	LS	-	1627150.00	-	-	-	-	1627150.00
	Total of C		-	6269869.00	-	-	-	-	6269869.00
	GRAND TOTAL		-	28981671.00	-	24409802.00	-	2109000.00	55500473.00

14.3. TOTAL REVENUE RECEIPT DURING 2023-2024 (1st Quarter)

Sl. No.	Division	April	May	June	TOTAL
		Amount	Amount	Amount	Amount
1	Kolasib	1460157	761096	3021135	5242388
2	Mamit	1083622	360784	327400	1771806
3	Kawrthah	659620	748850	90900	1499370
4	Darlawn	112800	50480	14300	177580
5	Aizawl	371945	272560	229771	874276
6	Champhai	159110	273816	198040	630966
7	Thenzawl	123350	203860	44200	371410
8	Lunglei	120770	15320	37120	173210
9	Tlabung	37020	52820	42070	131910
10	N.Vanlaiphai	7650	44570	34650	86870
11	WL (Aizawl)	158290	98720	65830	322840
12	Khawzawl	75900	77550	79350	232800
13	Chhimtuipui	0	35000	0	35000
14	DTR	0	0	0	0
15	Protection	0	171250	0	171250
	TOTAL	4370234	3166676	4184766	11721676

14.4. TOTAL REVENUE RECEIPT DURING 2023-2024 (2nd Quarter)

Sl. No.	Division	April	May	June	TOTAL
		Amount	Amount	Amount	Amount
1	Kolasib	1159050	488472	1941506	3589028
2	Mamit	135810	120397	176663	432870
3	Kawrthah	55520	36050	89480	181050
4	Darlawn	38960	63320	107500	209780
5	Aizawl	440188	737192	220140	1397520
6	Champhai	258900	1642220	246383	2147503
7	Thenzawl	41485	68180	33160	142825

8	Lunglei	57670	25530	128570	211770
9	Tlabung	25070	60700	0	85770
10	N.Vanlaiphai	32740	30440	27030	90210
11	WL (Aizawl)	47360	29760	32860	109980
12	Khawzawl	76650	1650	1650	79950
13	Chhimtuipui	0	0	0	0
14	DTR	0	0	11500	11500
15	Protection	80172	51550	68330	200052
	TOTAL	2449575	3355461	3084772	8889808

14.5. TOTAL REVENUE RECEIPT DURING 2023-2024 (3rd Quarter)

Sl. No.	Division	April	May	June	TOTAL
		Amount	Amount	Amount	Amount
1	Kolasib	873210	803131	479968	2156309
2	Mamit	338745	355180	247327	941252
3	Kawrthah	1614340	72701	0	1687041
4	Darlawn	73150	130130	32150	235430
5	Aizawl	184676	215030	198660	598366
6	Champhai	212354	261220	104800	578374
7	Thenzawl	74970	229730	163400	468100
8	Lunglei	48270	170660	34100	253030
9	Tlabung	0	18750	0	18750
10	N.Vanlaiphai	29860	5100	24090	59050
11	WL (Aizawl)	33150	41810	102850	177810
12	Khawzawl	1650	1650	0	3300
13	Chhimtuipui	0	0	7000	7000
14	DTR	8850	0	0	8850
15	Protection	62890	15900	0	78790
	TOTAL	3556115	2320992	1394345	7271452

14.6. TOTAL REVENUE RECEIPT DURING 2023-2024 (4th Quarter)

Sl. No.	Division	April	May	June	TOTAL
		Amount	Amount	Amount	Amount
1	Kolasib	733054	1015909	3125365	4874328
2	Mamit	247327	744428	851731	1843486
3	Kawrthah	149460	164550	911550	1225560
4	Darlawn	81050	150710	64500	296260
5	Aizawl	227376	2338728	371334	2937438

6	Champhai	319820	209330	375000	904150
7	Thenzawl	92400	142140	1458390	1692930
8	Lunglei	16740	54760	361140	432640
9	Tlabung	299845	2118670	10388730	12807245
10	N.Vanlaiphai	3400	54340	76070	133810
11	WL (Aizawl)	149370	84100	118770	352240
12	Khawzawl	0	0	0	0
13	Chhimtuipui	0	21800	0	21800
14	DTR	0	0	0	0
15	Protection	21000	31400	43250	95650
	TOTAL	2340842	7130865	18145830	27617537

14.7. FIRE REPORT FROM 1.3.2023 - 15.3.2023

Sl.No	Division	Jhum & Private Land		Forest Area		TOTAL		Remarks
		Nos.	Area(Ha.)	Nos.	Area(Ha.)	Nos.	Area(Ha.)	
1	Aizawl	-	-	-	-	-	-	Report is compiled from DFO/ DCF/ DCCF reports
2	Lunglei	123	355.62	-	-	123	355.62	
3	Kolasib	42	44.3	-	-	42	44.3	
4	Champhai	70	1258.6	-	-	70	1258.6	
5	Thenzawl	128	482.1	-	-	128	482.1	
6	Darlawn	85	374.55	-	-	85	374.55	
7	Mamit	168	179.5	-	-	168	179.5	
8	Kawrthah	53	27.9	-	-	53	27.9	
9	Tlabung	243	301.27	-	-	243	301.27	
10	N.Vanlaiphai	51	321.7	-	-	51	321.7	
11	MADC	96	139.8	-	-	96	139.8	
12	CADC	56	26.9	-	-	56	26.9	
13	LADC	88	27.85	-	-	88	27.85	
14	Aizawl (WL)	1	2	-	-	1	2	
15	Khawzawl (WL)	-	-	-	-	-	-	
16	Chhimtuipui (WL)	-	-	-	-	-	-	
17	DTR	-	-	-	-	-	-	
	GRAND TOTAL	1204	3542.09			1204	3542.09	



Photo - Lalminghlua Vanchhawng



Pic : Serlui 'B' Hydel Project
Photo : Johnny Lalhruiitluanga

15 | Forestry Training, Extension & Research Activities

15.1 FORESTRY TRAINING

15.1.1 Introduction:

The Forest Training School was established in November, 1974 at Bethlehem Vengthlang, Aizawl and located geo-coordinate 230,43' 38.3 Sec. N lat and 0920 , 44' 00.0 E. long. At mean sea level 812 mt. Initially it was named as Mizoram Forest School and headed by a Superintendent of the rank of Forest Ranger. In June, 1981, the Mizoram Forest School was renamed as Forest Education & Research Institute (FERI) and was headed by Principal of DCF rank officer. In April, 1996, the FERI was again renamed as Forest Training School (FTS) however the head of the School remained same as DCF level.

This Training School had been established to impart training to Foresters and Forest Guards. Apart from regular training course, it also conducts Refresher courses for forest frontline staff viz. Dy. Rangers/Foresters/Forest Guards. The institution also conducts awareness programmes for communities/society/public and host important functions of the department. This Forest Training School of Environment & Forests Department plays important role towards human resource development and modern Forestry & wildlife management in the State.

15.1.2 Legal Status of FTS:

Area of Forest Training School is 105.36 bighas (16.92 ha)vide Land lease certificate Govt. Letter No.C.18016/83/97-REV. Dt. 26.2.1999 .

Boundary description: Detail boundary description of Forest Training school are as follows:

North : The north boundary starts from B.P No 1 geo-coordinate latitude (Main gate) 230,43'40.0 Sec N. and longitude 0920,43'55.9 E. and thence follows boundary line up to B.P No 2 geo-coordinate latitude (Lamkhuang) 230,43'46.3 Sec.N. and longitude 0920,43'52.6 E.

East : From B.P No 2 geo coordinate latitude (Lamkhuang) 230,43'46.3 Sec.N and longitude 0920,43'52.6 E. boundary line follows towards east direction up to B.P no 3 geo-coordinate (Chhawrtui/Tuikhur lui/Fengeirup bul) latitude 230,43'47.7 Sec.N and longitude 920,44'02.1. E.

South : From B.P No 3 geo coordinate latitude (Chhawrtui/Tuikhur lui/Fengeirup bul) latitude 230,43'47.7 Sec.N and longitude 920,44'02.1. E. boundary line follows towards south direction up to B.P no 4 geo-coordinate latitude (Khuangthli bul) 230,43'36.4 Sec.N and longitude 0920,44'09.8 E.

West : B.P no 4 geo-coordinate latitude (Khuangthli bul) 230,43'36.4 Sec.N and longitude 0920,44'09.8 E. boundary line follows towards west direction till it meet starting point B.P no 1.

15.1.3 Budget utilization of FTS :

Year	Wages				Wages Fire Watcher	State Plan (salary)	Total (Rs. In Lakh)
	Refresher Training	VVK Farmers training	M.W	Wages			
2010-11	6.32	2.50	15.97	0.87		75.99	101.65
2011-12	4.10	1.00	0.08	1.93		94.31	97.32
2012-13	4.30	1.00	-	2.53		83.81	91.64
2013-14	7.37	1.00	89.3	4.14		88.51	190.32
2014-15	6.55	1.00	147.56	4.18		99.56	258.85
2015-16	2.49	1.00	2.00	4.25	0.264	80.063	89.803
2017-18	2.10	-	-	-	-	-	2.10
2018-19	-	5	1.61	3.46	0.86	19.79	30.72
2019-2020	-	2.23	1.65	2.44	1.67	27.84	35.83
2020-2021	-	1.95	4.04	1.45	1.67	16.66	25.77
2021-2022	-	2.13	1	1.52	1.52	14.66	20.83
2022-2023		2.01	3.9	9.49	-	14.33	29.73
2023-2024		2.46	-	4.66	-	13.30	20.42

15.1.4 No. of two weeks Refresher Courses conducted during the last five years & types of Frontlines Staff trained

Year	Dy. Ranger	Forester	Forest Guard	Total
2014-2015	11	39	25	75
2015-2016	25	30	-	55
2017-2018	20 (Rangers)	-	25	45
2018-2019	-	-	-	-
2019-2020	-	-	-	-
2020 - 2021	-	-	-	-
2021-2022	-	-	-	-
2022-2023	7	13	28	48
2023-2024	-	-	-	-

15.1.5 Progress achievement of Training activities :

Year	Type of courses	Total parti- cipants	Remarks
2013-14	1) Two weeks Refresher training course of frontlines staff	76 nos	
	2) One week VVK Farmer's Training	40 nos	

2014-15	1) Two weeks Refresher training course of frontlines staff	75 nos	
	2) One week VVK Farmer's Training	40 nos	
2015 - 16	1) Two weeks Refresher training course of frontlines staff	55 nos	
2016-17	1) 6 months Training course of Frontline Staff : (i) Forester- 5 nos (ii) Forest Guard – 15 nos	20 Nos.	
	2) One week VVK Farmer's Training	40 nos	
2017-18	1) One week Refresher training course of frontlines staff	45 Nos.	
2018-19	1) 6 months Training course of Frontline Staff : (i) Forester- 5 nos (ii) Forest Guard – 29 nos	34 Nos.	
2019-2020	6 months Training course of Frontline Staff for (i) First batch – Forest Guard – 27 nos Demonstrator – 5 nos (ii) Second batch – Forest Guard – 28 nos Demonstrator – 1 no	61 Nos	Two Forest Guards from Second batch trainees are send back from FTS.
2020-2021	6 months Training Course of Frontline staff for 14 Foresters and 9 Forest Guards	23 Nos	There are 16 trainees from CADC
2021-2022	6 months Training Course of Frontline staff for 7 Foresters and 9 Forest Guards	16 Nos	CADC – 8 Trainees MADC – 7 Trainees Thenzawl – 1 Trainee
2022-2023	Two One Week Thematic Online Refresher Course Training Forest Guards - 32 Foresters & Deputy Rangers - 29	Nos	Training is conducted online for the first time in FTS through Google Meet.
2023-2024	NGOs – YMA & Local Councils in Municipal Area & MHIP, Church Organisations – SAY, TKP, BKHP, School Students - Bethlehem Vengthlang High School	280 Nos	Awareness Campaigns & training sessions.

15.1.6 Progress achievement of Human Resource Development under TFC – 2023-2024:

Sl. No	Physical achievement	Financial achievement (Rs. in lakh)
1.	7 Foresters & 9 Forest Guards Six months regular training course completed	Rs. 22,595,70.00
2.	Forest Guards, Foresters & Deputy Rangers Two Courses One Week Online Refresher Course Training	Rs. 68,800.00

15.1.7 Progress of Audit inspection report as on March 2024:

Period of audit inspected	No. of Audit paras	No. of audit paras replied	No. of audit paras dropped	No. of audit paras not yet dropped/settled
27.1.2022 -7.2.2022	6	6	5	1
2022 – 2023	Nil	Nil	Nil	Nil
2023 – 2024	Nil	Nil	Nil	Nil

15.2 NUMBER OF FIRE INCIDENCE:

Year	Nature of incidence	Date of fire detected	Location	Extend of area damaged in ha.
2013-14	Nil	Nil	Nil	Nil
2014-15	Forest fire		Near Nursery	0.05 ha
2015-16	Forest fire	15.3.2016	Near playground	1.00 ha.
2017-18	Nil	Nil	Nil	Nil
2018-19	Nil	Nil	Nil	Nil
2019-20	Nil	Nil	Nil	Nil
2020-21	Nil	Nil	Nil	Nil
2021-22	Nil	Nil	Nil	Nil
2022-23	Nil	Nil	Nil	Nil
2023-24	Nil	Nil	Nil	Nil

15.3 NUMBER OF CRIME CASES :

Year	Nature of incidence	Date of crime detected	Location	Value of property loss	Action taken
2013-14	Nil	Nil	Nil		Nil
2014-15	Fencing post stolen	11.1.2015	Nursery & Playground fencing posts	18900/-	FIR submitted to Police On 14.1.2015 and awaiting Police action.
	Damaged window panels, stolen frames & stolen toilet plastic door etc	25.1.2015	Playground	50000/-	FIR submitted to Police On 27.1.2015 and awaiting Police action.
2015-16	Nil	Nil	Nil	Nil	Nil
2017-18	Nil	Nil	Nil	Nil	Nil
2018-19	Nil	Nil	Nil	Nil	Nil
2019-20	Nil	Nil	Nil	Nil	Nil
2020-21	Damaged Compound Fencing	18.2.2021	Junction point of fencing with FRCBR	13800/-	19.2.2021 FIR submitted and awaiting Police Action.
2021-22	Nil	Nil	Nil	Nil	Nil

2022-2023	Nil	Nil	Nil	Nil	Nil
2023-24	Theft & property damage	24.11.2023	Field Dressing Room	40,500/-	FIR submitted to Police On 25.11.2024 and awaiting Police action.

15.4 LIST OF BUILDINGS UNDER FTS:

Sl. No.	Type of building	Qty	Year of constructed	Amount of building	Status	Name of Occupant/year
1	Principal's Office	1	2010	8,31,247.00	Needs Repairing	Principal & Staffs
2	Auditorium	1	1984		Recommended renovation	Vacant
3.	Trainees class room	1	2008	5,00,000.00	FG Class room needs to be renovated and new furniture needs to be added	Trainees as and when training is conducted
4.	Hostel Building (JICA)	1 storey	2009,2013	It is not recorded by Training School.	Requires regular maintenance	Trainees
5	IV Grade Barracks	1	1992	80,000.00	Good	Vacant
6.	Instructor Quarter –II	1	1987	70,000.00	Good	Rosiana, M/R
7.	UDC Quarters-II	1	1990	59,950.00	Good	P.C. VantIngaia, Peon
8.	ACF Quarters	1	2009	1,00,000.00	Good	Vacant
9.	Instructor Quarters-I	1	1996		Good	Vacant
10.	Administrative Block/ Building	1	2014	80,10,811	Needs Repairing	Utilized as Conference Hall & Dining Hall as well as store room.
11.	Academic Block/ Building	1	2014	105,44,320	Needs Repairing	Trainees
12.	New Hostel Building/ Gents Hostel	1	2014	56,17,998	Needs Repairing	Trainees
13.	Director Quarter	1	2014	32,04,264	Good	Lalduhthlana, DFO Champhai
14.	Faculty Quarter – I	1	2014	77,14,270	Good	Utilized as FRH
15.	Faculty Quarter – II	1			Good	
16.	Faculty Quarter – III	1			Good	
17.	Faculty Quarter – IV	1			Good	
18.	Class III Quarters	2 units, 1 storey	2013	17,74,800	Good	1) Remmawii, Forester 2) Vacant
19.	FTS Canteen	1	2007		Requires major repair and renovation	Hmingsangzuali, Canteen Cook

15.5 LIST OF TRAINEES SPORT FACILITIES:

Sl. No.	Type of sport assets	Qty.	Year of established	Status
1	Football Playground	1	1981	Good but need regular maintenance.
2	Tennis court	1	1985	Needs Reconstruction

15.6 LIST OF FTS VEHICLES:

Sl. No.	Type of vehicle	Registration	Year of Purchased	Amount	Remarks
1	Motor Bike	MZ-01 L-3997	2015	69722.00	Motorbike allotted to FTS from PCCF on 1.6.2015. Old and almost beyond repair, needs to be replaced.
2	Gypsy Soft Top	MZ-01 D-8043	-	-	Pool
3	Bolero	MZ-01 H-5454	-	-	Allotted to Principal

15.7 PROBLEM & CONSTRAINT:

1. Since the inaugural of Forest Museum & Forest Rest House within Forest Training School, it is highly advisable and required to appoint dedicated staffs and/or MR to attend to the required duties and responsibilities in the management and maintenance of the complex and its facilities.
2. Due to limited funds, regular maintenance of infrastructures and facilities becomes difficult. The fund allocated to FTS is highly insufficient to ensure maintenance of the institution.
3. The institution does not have in-house instructor and/or assistant instructor to assist the Principal in conduct of various training matters as well as awareness campaigns.
4. There is shortage of power supply at the area and relying on Power Generator requires sufficient supply of funds. It is suggested to have Power Inverter/ Solar Power installed at the complex to ensure saving of funds in the long run.

15.8. SUGGESTION:

1. Forest Training School Boundary fencing is undertaken by Aizawl Division through Nagar Van Scheme. It is recommended to re-survey FTS Complex to ensure safety and security of FTS boundaries as the current survey map is out-dated.

2. Project follow up is required as Forest Museum is not fully functional and there is limited space for storage and display of collected specimens/exhibits. Detailed Project Report (DPR) has been submitted to Ministry of Art & Culture for consideration.
3. It is highly recommendable to sanction more funds to FTS for better upkeep and maintenance of the complex.

15.9 SECURITY MEASURES TAKEN UNDER FTS:

- To check illegal activities and trespasses by local people through Forest Training complex security check gate system is introduced near auditorium entrance gate and third party duty from JC Security Solutions are engaged wherein Security Guards are on duty 24/7 at the gate.
- Field staffs posted at FTS also patrolled the various duty places as the complex is easily accessible for the public.

15.10 INCUMBENCY CHART OF PRINCIPAL, FOREST TRAINING SCHOOL, AIZAWL FROM 1974 TO TILL DATE :-

15.10.1 Superintendent :

Sl. No.	Name	Designation	Period	
			From	To
1	Pu B. Lalnghaka	F/R	Nov, 1974	Nov, 1978
2	Pu V.L. Para	F/R	Nov, 1978	April, 1980
3	Pu P. Liankhama	F/R	April, 1980	4 June, 1981

15.10.2 Principal:

Sl. No	Name	Designation	Period	
			From	To
1	C. Lalvuana	ACF	05.06.1981	01.09.1982
2	C. Ramhluna	IFS	02.09.1982	07.01.1985
3	Hmingdailova Colney	DCF	08.01.1985	28.03.1989
4	Vanlalsiama	ACF	29.03.1989	15.08.1991
5	Hmingdailova Colney	ACF	16.08.1991	03.05.1992
6	Lalengliana	DCF	04.05.1992	11.08.1992
7	Albina Thangkhuma	DCF	12.08.1992	28.04.1994
8	P. Liankhama	DCF	15.04.1994	31.03.1996
9	P. Liankhama	IFS	1.4.1996	24.6.1998
10	Rosiam Vanchhong	IFS	24.6.1998	18.3.2002
11	C. Lalvuana	IFS	18.3.2002	30.6.2003

12	F. Lalchama	SFS	30.6.2003	17.11.2004
13	K. Kar	DCF	17.11.2004	5.8.2005
14	Lalrinmawia	IFS	5.8.2005	15.2.2008
15	Lallianzuala	MFS	15.2.2008	3.12.2009
16	K.Kar I.F.S	DCF	3.12.2009	11.3.2013
17	M.Z.Singson,M.F.S	ACF	11.3.2013	25.8.2014
18	N.R.Pradhan,M.F.S	DCF	25.8.2014	24.5.2016
19	Margaret Lalramchhani	DCF	24.5.2016	23.7.2019
20	Lalrammawii Sailo	IFS	23.7.2019	9.3.2020
22	Laldinthara	DCF	9.3.2020	28.2.2022
23	PC Laltanpuia	DCF	28.2.2022	31.3.2022
24	R. Lalnungrenga	ACF	31.3.2022	10.04.2024
25	Jenny Sailo	MFS	10.04.2024	24.05.2024
26	Samson Thanruma	MFS	24.05.2024	



**Forest Fire Prevention & Control Operations Awareness Campaigns - April 2023
(Mizo Hmeichhe Insuihkhawm Pawl & BKHP, Bawngkawn)**



**Forest Fire Prevention & Control Operations Awareness Campaigns - May 2023
Government Bethlehem Vengthlang High School**



**Forest Fire Prevention & Control Operations Awareness Campaigns - May 2023
TKP Sakawrtuichhun & Bethlehem Vengthlang**



Black Topping of Principal Courtyard and Internal Road within FTS



Black Topping of Principal Courtyard and Internal Road within FTS



Blacktopping of Internal Roads and laying of checker tiles on Principal Office approach steps



Conference Hall Renovation – Stage Carpet Installation



New Chairs Purchased

16 | FOREST PROTECTION

With increasing demand of natural resources by human and other biotic being, forest protection and wildlife conservation have become one of the most important and challenging mandates of Environment, Forests & Climate Change department. Various activities have been taken up to protect the natural forest and man-made forest as well. Similarly, various activities have been planned and executed for wildlife conservation with financial assistance from the Central as well as the the State government. Government of Mizoram has also initiated certain State programmes like Green Mizoram Programme, Fire Prevention Week and Mizoram Bamboo Day etc. for environmental conservation and to provide awareness about forest protection/wildlife conservation amongst the general public.

Forest fire is one factor causing forest degradation in the State which happens almost every year due to Jhum burning. With the effective implementation of CSS: Intensification of Forest Management Scheme, forest fire prevention activities such as creation and maintenance of fire line, construction of watch tower and water tanky, engagement of fire watcher etc. the incidence of fire outbreak and hence forest degradation has been minimized to some extent.

16.1. SUMMARY OF REVENUE COLLECTED DURING 2023-2024

SI No.	Month	Quantity (cft)	Amount (in Rs)
1	April	0	0
2	May	1104.28	166250.00
3	June	0	0
4	July	414.59	75172.00
5	August	339.02	51550.00
6	September	409.65	68330.00
7	October	384.92	62890.00
8	November	105.94	15900.00
9	December	0	0

10	January	138.08	21000.00
11	February	188.58	31400.00
12	March	179.39	43250.00
Total		3264.45	535742.00

SI No.	Source of Revenue	Quantity	Amount in (Rs)
1	Sawn timber	3264.45 eft	5,35,742.00
2	Chainsaw (March 2023)	2 nos	10,000.00
Total			5,45,742.00