MIZORAM STATE POLLUTION CONTROL BOARD

No. H.88088/Poltn./50 (XIX)-PR/2020-MPCB/ : Dated Aizawl, the19th March 2021.

To,

The Secretary,
Ministry of Jal Shakti,
2nd Floor, Block-III, CGO Complex,
Lodhi Road, New Delhi – 110003.

Subj.: Submission of monthly progress report of Mizoram for the month of February 2021 as per the revised format in compliance to Hon'ble NGT order dated 24.09.2020 in the matter of OA No. 673/2018

Sir,

With reference to the above cited subject, may I submit herewith monthly progress report of Mizoram for the month of **February 2021** on OA. 673/2018 as per the revised format for favour of your kind information and further necessary action.

Yours faithfully,

Enclo: As above

(C.LALDUHAWMA)
Member Secretary
Mizoram Pollution Control Board

Memo No. H.88088/Poltn./50 (XIX)-PR/2020-MPCB/ : Dated Aizawl, the 19th March 2021.

Copy to: Member Secretary, Central Pollution Control Board

(C.LALDUHAWMA)
Member Secretary
Mizoram Pollution Control Board

Monthly Progress Reportfor the State of MIZORAM for February 2021
(As per revised format)

(in compliance to NGT order dated 24.09.2020 in the matter of OA No. 673 of 2018)

Overall status of the State:

I. Total Population: Urban Population & Rural Population (as per 2011 census).

Urban & Rural Popullation	*2011*	*Projected population in 2021*
Urban Population	525435	638722
Rural Population	571771	632013
Total	**1097206**	**1270735**

II. Estimated Sewage Generation (MLD) as per projected population for 2021:

Urban	68 MLD
Rural (692 villages)	36 MLD
Total	**104 MLD**

Note*: The Sewage Generations are arrived taking into consideration the water supply at 70 lpcd and 135 lpcd in rural and urban respectively.*

III. <u>Details of Sewage Treatment Plant:</u>

- Existing no. of STPs and Treatment Capacity (in MLD):
  - 1 STP in Aizawl with a capacity of 10 MLD operational from 6th Feb , 2021
- Capacity Utilization of existing STPs:
  - 0.094 MLD
- MLD of sewage being treated through Alternate technology:
  - 0.578 MLD (Bio Digester etc.) by PHED (List of Bio Digesters constructed is enclosed in **Annexure-I**)
  - 0.115 MLD Bio Digester constructed by SIPMIU
- Gap in Treatment Capacity in MLD:
  - 104 MLD – 10.693 MLD = 93.307 MLD
    (Counting the operation of 10 MLD at hand)
- No. of Operational STPs:
  - **1**
- No. of Complying STPs:
  - **1**
- No. of Non-complying STPs:
  - **Nil**

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1.		(10 MLD)	0.094 MLD	(Operation has started on 6th February, 2021)	Consent to Operate for STP obtained from the Mizoram Pollution Control Board (MPCB). Online Continuous Effluent Monitoring System (OCEMS) installed as per the specific conditions of the CTO. Copy attached.

Details of under construction STPs in the State

No.	*Location*	*Capacity of the plant in MLD*	*Physical Progress in %*	*Status of I&D or House sewer connections*	*Completion Timeline*
1.	Bethlehem Vengthang, Aizawl	10 MLD	Sewerage network – 75.23%	3074registered Households	Although STP has started operation, additional network connection is still ongoing to utilize the full capacity of the STP.

Details of proposed STPs in the State

No.	*Location*	*Capacity of the STP proposed in MLD*	*Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)*	*Likely Date of Completion*
1.			• Action Plan for 100% sewage treatment Including recycle and reuse of treated waste water was submitted to the State Govt., will be implemented after due	

			approval and instruction from the State Govt. • Seeing the scope of much needed urban infrastructure (Urban Water/Solid Waste Management/Drainage/ Urban Roads/ Sewerage) for Tier–II cities and towns, the State Government had formulated and submitted a Preliminary Project Proposal Report (PPR) to the Central Ministry, MoHUA for NERUDP type financing scheme. • State Investment Program Management & Implementation Unit (SIPMIU), UD&PA, is also entrusted to prepare action plan for the pilot Pey Jal Survekshan under Jal Jeevan Mission (JJM) recently launched in selected cities with an objective to ascertain the equitable distribution of water, reuse of waste water and mapping of water bodies with respect to quantity and quality of water through a challenging process. Anticipating the launch of JJM for Mizoram, concept note Preliminary Report will be prepared for additional Sewerage system and septage management in Aizawl and other notified urban towns for a wider coverage of wastewater treatment and to ensure 100% treatment of sewage.	

IV. Details of Industrial Pollution:

- No. of industries in the State:
  - 735units
- No. of water polluting industries in the State:
  - 56 units(Status of the industry and the functioning of ETP is enclosed at **Annexure-II)**
- Quantity of effluent generated from the industries in MLD:
  - 0.04384 MLD
- Quantity of Hazardous Sludge generated from the Industries in TPD:
  - Nil
- Number of industrial units having ETPs:
  - 56units
- Number of industrial units connected to CETP:
  - Nil (No CETP exists)
- Number and total capacity of ETPs (details of existing/ under construction / proposed)
  - 56 units with total capacity of 0.099 MLD
- Compliance status of the ETPs:
  - ETPs are functional and effluents are found to be complied with standards.
- Number and total capacity of CETPs (details of existing/ under construction / proposed) :
  - Nil (No CETP exists)
- Status of compliance and operation of the CETPs: No CETP exists

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
N/A				

V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population:
  - Only 1 notified ULB in Mizoram i.e Aizawl Municipal Corporation
  - Population: 293,416 as per 2011 census
  - 22 Urban Towns with Population:278,355 as per 2011 census
- Current Municipal Solid Waste Generation:
  - 348.19 TPD (23 Urban towns)
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output),

Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc:

- Landfill : 44TPD & Material Recovery Facility 74 TPD (Aizawl city)
- Composting:
  i. Aizawl city: a) Vermi-composting plant – 22 TPD
     b) Mechanical Composting Plant – 50 TPD

  ii. Lunglei Town: Vermi-composting Plant – 45 TPD is under cosntruction

  ii. KolasibTown: Vermi-composting Plant of - 20 TPD is under construction.
  iii. Champhai Town: Vermi-composting Plant of - 25 TPD is under construction
  iv. Remaining 19 Urban towns: Vermi-composting Plant - 0.5TPD each are operational
  v. DPR for Land Development for Solid Waste Management Centre for 5 (Five) remaining towns have been approved and Administrative Approval& Expenditure Sanction amounting to Rs 60.00 Lakhs each have been received from the state Government.
  vi. Out of the 23 Urban towns, only 4 (Four) Urban Towns have SWM Center under implementation stage. Therefore, Concept Note have been submitted to various Ministries/Agencies for consideration under the following schemes such as
  1. NLCPR, 2. NEC, 3. NITI Ayog etc for remaining 19 Urban Towns.

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%):
  - ❖ Solid Waste Management Center at Tuirial, Aizawl started functioning since 12th December, 2019 which caters a total of 214 TPD including 44 TPD capacity Landfill, 74 TPD capacity Material Recovery Facility, 50 TPD Mechanical Composting Plant and 46 TPD Vermicomposting Plant.
  - ❖ In order the bridge gap of Solid Waste Management at Urban Towns, UD&PA Department have prepared and submitted Concept Note as well as Detailed Project Report to various Ministries/Agencies for consideration under the following schemes such as 1. NLCPR, 2. NEC, 3. NITI Ayog etc

- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction):
  - Nil
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source:
  - No. of wards in Aizawl city: 19

- No. of wards having door to door collection service: 19
- No. of wards practicing segregation at source: 19

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology):
  - In addition to one existing MSW treatment facility at Tuirial (Eastern part of Aizawl city), 3 more sites have been identified for closing the gap in waste management at the following locations for which concept paper preparation is under process:
    i) Hualngo Hmun (southern part of Aizawl city)
    ii) Sihphir Neihbawih (Nothern part of the Aizawl city)
    iii) Luangmual (Eastern part of Aizawl City)

The Status of ongoing and pipeline SWM Projects in Mizoram Urban Areas are:

Sl. No	Name of city /Town	2020 Population Projected	Projected SW Generation Per/capita/ Day(TPD)	Plant Capacity		Funding	Project Amount	Status
				Existing TPD	Pipeline TPD			
1	Aizawl	343619	178.68	190		ADB	34 Cr. (Approx)	Functioning since 12th December,2019
2	Lunglei	66766	34.72	0.0	45	NLCPR (MoDONER)	600 Lakhs	Under construction 1stInstalment pending with the ministry)
3	Champhai	38335	19.93	0.0	25	SBM (U) (MoHUA)	667 Lakhs	Under construction (90%Physical Progress completed)
4	Kolasib	28425	14.78	0.0	20	NEDP 2018-2019 (State Fund)	400 Lakhs	Under construction (30%physical progress completed)
5	Serchhip	24778	12.88	0.5	20	Rs.60 Lakhs each for Land Development have been received under special Assistance under Capital Expenditure Free Loan	Rs. 60 Lakhs	Budget Allocation Received and Sanctioned order awaited
6	Mamit	9233	4.80	0.5	15		Rs.60 Lakhs	
7	Saitual	13607	7.08	0.5	15		Rs.60 Lakhs	
8	Khawzawl	12908	6.71	0.5	15		Rs.60 Lakhs	
9	Hnahthial	8417	4.38	0.5	15		Rs.60 Lakhs	
10.	Siaha	29406	15.29	0.5	20			
11	Lawngtlai	24394	12.68	0.5	20	Concept Note Submitted to NEC,		Existing facilities for Wet waste (vermin composting) and Dry Waste (WasteResource Management
12	Zawlnuam	4372	2.27	0.5	10			
13	Vairengte	12360	6.43	0.5	10			
14	Lengpui	3844	2.00	0.5	10			
15	N.Kawnpui	9055	4.71	0.5	10			
16	Thenzawl	8501	4.42	0.5	10			
17	Sairang	6968	3.62	0.5	10			

18	Tlabung	5333	2.77	0.5	10	NESIDS, NITI Aayog Etc for Solid Waste Management Centre		Centre) has been in placed in all urban towns. Response awaited from Government of India
19	Bairabi	5059	2.63	0.5	10			
20	Darlawn	4414	2.30	0.5	10			
21	N.Vanlaiphai	4218	2.19	0.5	10			
22	Khawhai	2923	1.52	0.5	10			
23	Biate	2667	1.39	0.5	10			

- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills:
  - One at Tuirial Dumping Ground having approximately 487 sq.m. It has been closed recently since 1st November 2020 following the commissioning of the newly constructed Waste Management Centre at Tuirial.
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers:
  - Nil
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:
  - Nil

VI. Bio-medical Waste Management:

- Total Bio-medical generation:
  - 936.37 kg/ day
- No. of Hospitals and Health Care Facilities:
  - 68 (Bedded Hospitals & Nursing Home)&144 (Non-bedded)
- Status of Treatment Facility/ CBMWTF
  - No CBMWTF yet in Mizoram. However, Govt. of Mizoram has prepared proposal for setting up of CBMWTF for Mizoram and submitted to Central Pollution Control Board for funding.
  - At present,for treatment of BMW in Mizoram, captive biomedical treatment and disposal is in practice as of now.

VII. Hazardous Waste Management:

- Total Hazardous Waste generation
  - 20.374 MTA (As per revision of Annual Inventory report 2019-2020)
- No. of Industries generating Hazardous waste
  - 40 (most of them are automobile repairing units of small scale)
- Treatment Capacity of all TSDFs:
  - No TSDF exists at present.
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:
  - N/A
- Details of on-going or proposed TSDF:

- Suitable Site at Industrial Growth Centre, Luangmual, Aizawl has been identified by the State Govt. for setting up common TSDF. The Commerce and Industries department is in search of consultancy firm for setting up of the common TSDF but is held back due to non-availability of empanelled firm in the state. The problem has been conveyed to the higher authority.

VIII. Plastic Waste Management:

- Total Plastic Waste generation:
  - *7905.5 TPA (Municipal Corporation) & 3.1 TPA (Urban and Rural areas)*
- Treatment/ Measures adopted for reduction or management of plastic waste:
  - The Plastic Wastes Management Bye-laws, 20 I 9, prepared by Aizawl Municipal Corporation(AMC) was notified vide Mizoram Gazette Notification No M.12011 /6/2014-AMC Dt 16.07.2019.
  - AMC has imposed complete ban on plastic carry bags below 50 micron within its jurisdiction with effect from 1st August 2019.
  - The State Govt.has imposed ban on distribution or placing of packaged drinking water made of plastic in all official meetings or conferences or gathering w.e.f 20th May 2019.
  - The AMC has initiated of segregation of wastes at source and has set up **Plastic waste Collection Centre** at Riangvai Thlanmual, Zemabawk, Aizawl.
  - As per initiatives taken by Mizoram Pollution Control Board, Public Works Department has initiated a program for utilization of plastic wastes in road construction following the 'Guidelines for utilization of plastic wastes' and has recently constructed 800 m long of road using plastics at Reiek, Mamit district.
  - Extensive Awareness campaigns were launched in beating plastic pollution to schools and colleges by MPCB. As as result, the state now has 126 schools and 11 colleges declared as **"Plastic Free" institutions**.

IX. Details of Alternate Treatment Technology being adopted by the State/UT:

-

X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:

- Water quality of the polluted drains has been regularly monitored by Mizoram Pollution Control Board on quarterly basis.

XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:

- Mr. Lalrotluanga, Chief Engineer, Irrigation &Water Resources Department, Govt. of Mizoram Vide Notification No.A.46012/1/2019-GAD Dt.27.02.2020

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:

- State Level Monitoring Committee has been constituted under the Chairmanship of Chief Secretary, Govt. of Mizoram notified vide letter No.C.18013/2/2020-I&WR/243 dt. 21.07.2020. The Committee comprises of the following members:

1. Chief Secretary	*Chairman*
2. Principal Secy./Secy., EF&CC	*Member*
3. Secy., PHED	*Member*
4. Secy., LRS&WCD	*Member*
5. Secy., UD&PA	*Member*
6. Commissioner, AMC	*Member*
7. Chairman, MPCB	*Member*
8. Secy., I&WRD	*Member Secy.*

- Review meeting under the Chairmanship of Chief Secretary, Govt. of Mizoram with Secretaries of the concerned departments to oversee implementation status of the Action Plan in the matter of the orders of the Hon'ble NGT in O.A No.673/2018 was held on 2nd February 2021.

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:

- Latest water quality of the 9 polluted rivers for the month of February 2021 is at **Annexure-III**.

- Water quality of drains/tributaries for the last quarter i.e January 2021 to March 2021is at **Annexure-IV.** Monitoring of drains/tributaries is being carried out for January to March 2021 Quarter

XIV. Ground water regulation:

- In Mizoram, surface water serves as the main sources of water for drinking, domestic and industrial purposes. Ground water extraction is insignificant in Mizoram and the State Govt. has no separate notified Ground water regulations, however, regulations issued by Central Ground Water Authority has been followed in the state.

XV. Good irrigation practices being adopted by the State:

- Although e-flow is not yet assessed, discharge of streams/rivers are never fully diverted for irrigation purposes.

- Guidelines for 'Environment Health & Social Safety' is incorporated in the Dept's Construction Manual which is expected to be approved within a month.

XVI. Rain Water Harvesting:

- State Govt. has framed Rain Water Harvesting Policy for the state of Mizoram which is expected to be notified soon.
- Various stakeholder departments such as, PHE, Rural Development, PWD, AMC have taken up schemes for implementing construction of rainwater harvesting structures in the state.
- AMC has mandated provision of rainwater harvesting facility and discharge of rainwater in AMC Building Regulation, 2012 No 5(6) and No.32.
- For rejuvenation of polluted rivers, construction of rainwater harvesting structures have been proposed to be constructed in the river catchment areas for which concerned department, PHED has initiated actions.

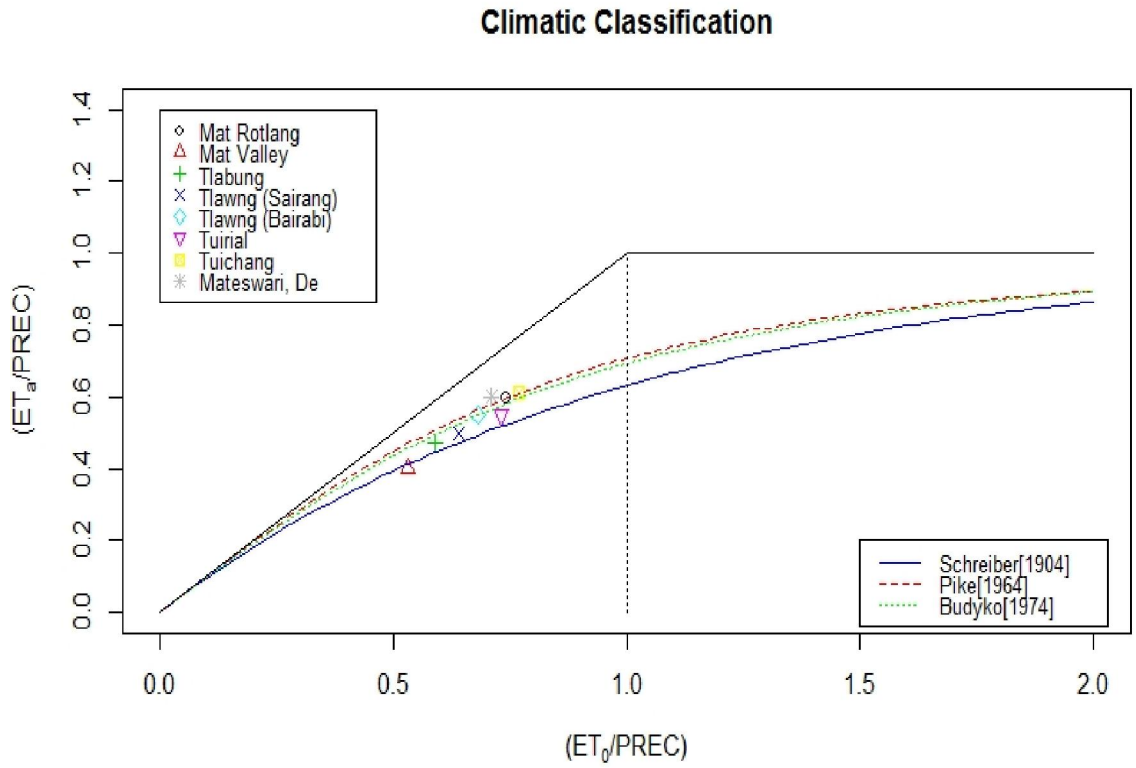
XVII. Demarcation of Floodplain and removal of illegal encroachments:

- Not relevant for the state as Mizoram is a hilly region and has no floodplain zone.

XVIII. Maintaining minimum e-flow of river:

For assessment of e-flow of the rivers, actions have been initiated as briefed below:

- A climatic classification based on the observation i.e. the ratio of ETo/PREC and ETa/PREC are calculated and plotted as shown in Figure. It tends to be viewed from the anticipate that all the gauged catchments are in the same category with dry report. Regardless of the way that each of the gauged catchments fall inside the same classification, they have been simply utilized in one pool for regionalization investigation on account that they have virtually equal to evaporative records. This verifiable the likeness of atmosphere in the catchments with respect to relative water and energy accessibility and consequently utilized of differentlocal conditions to demonstrate parameters for different catchments isn't required. Subsequently, each one of the gauged catchments had been chosen as donor catchments and the total parameter set had been used to be migrated from these catchments to the ungauged catchments. The 1:1 line elucidate the available energy limit to evapotranspiration (ETo/ PREC), while the horizontal line elucidate the available water limit (ETa / PREC).



The 5-, 50-, 90- and 95-percent-flow duration(q_5, q_{50}, q_{90},q_{95},) notwithstanding the slope of the flowduration curve (FDC_{slp}) which have been evaluated prior for the gauging stations will be used as dependent variables for regression analysis. Specific high flow discharges qi (l/s/ km^2) had been figured by using standardizing Qi values through individual catchment areas to make the flow quantile values more comparable throughout scales.

XIX. Plantation activities along the rivers:

- Environment, Forests and Climate Change Department has been taking up plantation drives in the catchment areas of the polluted rivers with a targeted area of 595.5 Ha out of which about 186.8 Ha has been already covered.

XX. Development of biodiversity park:

- Some of the rivers already have Riverine Reserved Forests of about 800 metres on either side of the river banks which are well protected. As such, a separate biodiversity park was not proposed for rejuvenation of the polluted rivers, instead plantation drives have been undertaken in the catchment area of the polluted rivers.

XXI. Reuse of Treated Water:

The treated sewage water shall be utilized as per the action plan such as agriculture, irrigation/horticulture, and industrial re-use, construction activities, fire tender and urban reuse when the STP is fully operation.

XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

- Review meeting under the Chairmanship of Chief Secretary, Govt. of Mizoram with Secretaries of the concerned departments held on 2nd February 2021 identified **Chite stream as a model polluted river in Mizoram.**

XXIII. Status of Preparation of Action Plan by the 13 Coastal States:

- Not applicable to the state of Mizoram as Mizoram is a landlocked state and has no coastal areas.

XXIV. Regulation of Mining Activities in the State/UT:

- In Mizoram, there are no major mining activities yet. Most of the mining activities are that of minor mineral mining such as sandstone (stone quarry) and sand mining (sand extraction from river beds)
- Mining activities are strictly regulated in the state under The Mizoram Minor Minerals Consession Rules, 2000, notified by the State Govt. on 20.09.2005 as per the provisions of Section 15 (i) of the The Mines and Minerals (Development and Regulation) Act, 1957.
- Apart from the above Rules, provisions under Central Act and Rules such as, The Explosive Rules, 2008 and The Mines Act, 1952 are effectively followed.

XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:

- During the reporting month, a fine amounting to Rs 5000/- was imposed to one identified polluter due to open burning of solid & demolition wastes.

Office of the Executive Engineer, PHED Sewerage & Drainage Aizawl 'E' Division					
Fiber Reinforced Plastic (FRP) Biodigester Details					
Sl. No.	**Beneficiary Details**		**FRP Details**	**Name of River**	**Category**
	Name of Beneficiaries	**Address**	**Unit** *(1unit= 1000lit)*		
1	**2**	**3**	**4**	**5**	
1	F.Liantluanga	Ramhlun 'S'	1	Chite	P-V
2	F.Liantluanga	Ramhlun 'S'	1	Chite	P-V
3	C.Thanpuia	Nursery	1	Tlawng	P-IV
4	Chawnghnuna	Zonuam	1	Tuikual	P-V
5	Major Lalluia	Zarkawt	1	Chite	P-V
6	R.Lalhmuakliana	Maubawk	1	Tlawng	P-IV
7	K.Laldinpuii	Bungkawn	1	Tlawng	P-IV
8	Dr.Lalruatfela	Dawrpui VT	1	Tuikual	P-V
9	Lalzami	Hunthar	1	Tlawng	P-IV
10	H.C.Thangkima	ITI Veng	1	Chite	P-V
11	R.Lalrinngheta	Ramhlun	1	Chite	P-V
12	Saithanthuama	Kulikawn	1	Tlawng	P-IV
13	Lalchhuanawmi	Tuikual 'N'	1	Tuikual	P-V
14	Dr Lalnuntluanga	Mission V.T	1	Tlawng	P-IV
15	H.Vanlalrawna	Nursery	1	Tlawng	P-IV
16	Lalrammawia	Gov't Complex	1	Tlawng	P-IV
17	Zodinsanga Pachuau	Mission V.T.	1	Tlawng	P-IV
18	Lalbanglova	Luangmual	1	Tlawng	P-IV
19	Liandawla Fanai	Mission V.T	1	Tlawng	P-IV
20	F.Lalkhawchhana	Republic M.V	1	Chite	P-V
21	K.lalbeiseia	Bethlehem V.T	1	Chite	P-V
22	Lalthangpuia Sailo	Zemabawk	1	Tuirial	P-V
23	Pu Lalthanpuia	Zemabawk	1	Tuirial	P-V

24	Vanramngaiha	Zuangtui	1	Tuirial	P-V
25	Lalramliana	Zemabawk	1	Tuirial	P-V
26	Lalthanzuala Ralte 1	Mission VT	1	Tlawng	P-IV
27	John Ramzauzela	Tlangnuam	1	Tlawng	P-IV
28	C.Laldingpuii	Tlangnuam	1	Tlawng	P-IV
29	Lalthanpuia Chhangte	Electric veng	1	Chite	P-V
30	H.Vanlalliana1	ITI Veng	1	Chite	P-V
31	C.Dengzami 1	Tlangnuam	1	Tlawng	P-IV
32	H.Vanlalliana 2	ITI Veng	1	Chite	P-V
33	R.Thanchuanga	Kulikawn/Serchhip	1	Tlawng	P-IV
34	Ronnie Lalrinmawia	Electric veng	1	Chite	P-V
35	Rammawia SE (PHE)	Tanhril	1	Tlawng	P-IV
36	Hmingthansiami	Tanhril	1	Tlawng	P-IV
37	T.Lalbuanga	Mission V.T	1	Tlawng	P-IV
38	Pu Gena	Zemabawk /Dinthar	1	Tuirial	P-V
39	Sangzuala	Kulikawn	1	Tlawng	P-IV
40	J.Lalramthara	Bungkawn H/SV	1	Tlawng	P-IV
41	Zothansanga Zote	Bawngkawn "Brig	1	Tuirial	P-V
42	CS.Lalnunthara	Khatla	1	Tuikual Lui	P-V
43	R.Lalchungnunga	Venglai	1	Chite	P-V
44	Peter C. Lalrinmawia	Mission V.T	1	Tlawng	P-IV
45	R.Rohmingliana	Ramhlun N	1		
46	Lalkila	Mission V.T	1	Tlawng	P-IV
47	H.Ramdinliana	Mission VT	1	Tlawng	P-IV
48	Pc.Liankima	Bethlehem V.T	1	Chite	P-V
49	Lalthankimi	Bethlehem V.T	1	Chite	P-V
50	Ralkapthanga	Ramhlun VL	1	Chite	P-V
51	Ralkapthanga	Ramhlun VL	1	Chite	P-V
52	H.Vanrammawii	Maubawk	1	Tlawng	P-IV
53	R.Lalbiakdika	Bethlehem V.T	1	Chite	P-V

54	C.Ramliana	Durtlang Leitan	1	Tuirial	P-V
55	C.Dengzami 2	Tlangnuam	1	Tlawng	P-IV
56	Hmingthanzauva	Mission V.T	1	Tlawng	P-IV
57	H.Lalrokima	Tlangnuam W	1	Tlawng	P-IV
58	R.Lianmawia	Bethlehem V.T	1	Chite	P-V
59	Malsawmzuali	Chaltlang lily	1	Chite	P-V
60	MS.Dawngliana	Luangmual	1	Tlawng	P-IV
61	Lalsangzuali	Bethlehem V.T	1	Chite	P-V
62	Denghmingthanga	Hlimen	1	Tlawng	P-IV
63	Lalhmingthanga	Hlimen	1	Tlawng	P-IV
64	ZD.Dengthuama .E.E 1	Durtlang Leitan	1	Tuirial	P-V
65	Vanlalchaka	Ramhlun N	1	Chite	P-V
66	Valbuanga	Aizawl Venglai	1	Chite	P-V
67	Valbuanga	Aizawl Venglai	1	Chite	P-V
68	R.Lalropari	Mission VT	1	Tlawng	P-IV
69	Lalchawimawia	Bungkawn H/S	1	Tlawng	P-IV
70	Rochangliani	Kulikawn	1	Tlawng	P-IV
71	Lili Vaikhum	Zonuam	1	Tuikual Lui	P-V
72	K.Lalkamliana 1	Ramhlun N	1	Chite	P-V
73	Dr.Lalnuntluanga	Kulikawn	1	Tlawng	P-IV
74	Lalrammuanpuia	Hunthar veng	1	Tlawng	P-IV
75	T.Rosiama	ITI WBR	1	Chite	P-V
76	Lalthuama sailo 1	Dawrpui VT	1	Tuikual Lui	P-V
77	K.Lalremruati	Bethlehem V.T	1	Chite	P-V
78	Vanlalrema Rokhum	Zemabawk	1	Tuirial	P-V
79	Rev K.Darsailoa	Tlangnuam	1	Tuikual Lui	P-V
80	Rohmingliana 1	Vaivakawn	1	Tuikual Lui	P-V
81	A.Lianhmingthangi	Khatla	1	Tuikual Lui	P-V
82	Lucy Lalpiani	Dinthar	1	Tuikual Lui	P-V
83	Lallungawii 1	Ramhlun VL	1	Chite	P-V
84	Lallungawii 2	Ramhlun VL	1	Chite	P-V

85	VL Hmingthanga	Ramhlun S	1	Chite	P-V
86	Liandawla ,	Central Veng	1	Tlawng	P-IV
87	R. Lalthlanthanga	Durtlang	1	Tuirial	P-V
88	Lianmawia	Durtlang N	1	Tuirial	P-V
89	Lalnunthangi	Bethlehem	1	Chite	P-V
90	C.Lalnunzami 1	Luangmual	1	Tlawng	P-IV
91	Vanlalfela	Tuikhuahtlang	1	Chite	P-V
92	Hmingsangremmawii	Dawrpui V.T	1	Tuikual Lui	P-V
93	C.Lalmuanpuia	Chanmari W	1	Tlawng	P-IV
94	R.Zomawia	ITI	1	Chite	P-V
95	Lalmuankima	Durtlang	1	Tuirial	P-V
96	C.Lalrinchhana	Tuikhuah Tlang	1	Chite	P-V
97	Pradip Thapa	Tanhril	1	Tuirial	P-V
98	Chalthangvunga .1	Zemabawk	1	Tuirial	P-V
99	Lalnunsanga	Tuikhuahtlang	1	Chite	P-V
100	Lalngaihzuali	Edenthar	1	Tlawng	P-IV
101	Vanlalveni. 1	Tuikhuahtlang	1	Chite	P-V
102	Lalmuanpuii	Chanmari W	1	Tlawng	P-IV
103	Rochhingpuia	Chanmari	1	Chite	P-V
104	Sangzuala .1	Tuikhuah Tlang	1	Chite	P-V
105	Sangzuala .2	Tuikhuah Tlang	1	Chite	P-V
106	H.Doliana	Thuampui	1	Chite	P-V
107	Tlangliani 1	Chanmari	1	Chite	P-V
108	Upa Zazawna	Durtlang N	1	Tuirial	P-V
109	Vanlalnunengi	Bethlehem V.T	1	Chite	P-V
110	Laltanpuii	Durtlang m5	1	Tuirial	P-V
111	H Lalengmawii	Zuangtui	1	Tuirial	P-V
112	K.Lalthlamuana	BVT	1	Chite	P-V
113	R.Lalthlamuana 1	Ramhlun s	1	Chite	P-V
114	B.Thanlawma	Tuikual North	1	Tuikual Lui	P-V

115	R.Lalrinchhana	Tlangnuam	1	Tlawng	P-IV
116	T.T.Zothansanga	Mission Bazar	1	Tlawng	P-IV
117	R.Lalthlamuana 2	Ramhlun S	1	Chite	P-V
118	DL.Thuamkunga	Zemabawk	1	Tuirial	P-V
119	VL.Hruaia	Falkland	1	Chite	P-V
120	Malsawma 1	Thuampui	1	Chite	P-V
121	C.Lalrintluanga	College veng	1	Chite	P-V
122	Lalrinthanga	Gov't Complex	1	Tlawng	P-IV
123	Lalthanzami 1	Venghnuai	1	Chite	P-V
124	Lalthanzami 2	Venghnuai	1	Chite	P-V
125	Zofakawma 1	Damveng	1	Chite	P-V
126	Rohmingliana	Salem veng	1	Chite	P-V
127	H. Sanglura	Ramhlun S	1	Chite	P-V
128	Lalvunga	Tuithiang	1	Chite	P-V
129	Ramchullova	Maubawk	1	Tlawng	P-IV
130	Aldrin Lalbiakngheta	Durtlang	1	Tuirial	P-V
131	K. Lalrualkima	Zemabawk	1	Tuirial	P-V
132	Zothansiama	Kulikawn	1	Tlawng	P-IV
133	PC Vanlallawma	Durtlang LT	1	Tuirial	P-V
134	Lalchharliana	Zonuam	1	Tlawng	P-IV
135	Zohmangaiha	Zemabawk VT	1	Tuirial	P-V
136	Lalhlimpuii	Ramhlun VT	1	Chite	P-V
137	Lalrinmawii	Chanmari W	1	Tlawng	P-IV
138	R.Lalfakzuala	Ramhlun N	1	Chite	P-V
139	John Lalzuitluanga	Durtlang	1	Tuirial	P-V
140	John Lalzuitluanga	Durtlang	1	Tuirial	P-V
141	K.Lalthlamuana	Bethlehem	1	Chite	P-V
142	Lalliankunga	Tuikual S	1	Tuikual Lui	P-V
143	Rohmingliana 1	Mission VT	1	Tlawng	P-IV
144	Rohmingliana 2	Mission VT	1	Tlawng	P-IV
145	P.Lalrinthanga	Sihhmui	1	Tlawng	P-IV

146	Lalchanchinmawii	Chanmari W	1	Tlawng	P-IV
147	Lalhruaitluanga	Chanmari W	1	Tlawng	P-IV
148	Ramhmangaiha 1	Republic VT	1	Chite	P-V
149	Ramhmangaiha 2	Republic VT	1	Chite	P-V
150	Lalmawizuala	Chanmari W	1	Tlawng	P-IV
151	Lalchhuanvawra	Selesih	1	Tuirial	P-V
152	Richard Khumtea	Tanhril	1	Tlawng	P-IV
153	Lalduhawma 1	Bethlehem VT	1	Chite	P-V
154	Lalduhawma 2	Bethlehem VT	1	Chite	P-V
155	Chalthangluaia	Ramhlun VT	1	Chite	P-V
156	Albert CC Mawia	Zemabawk	1	Tuirial	P-V
157	H Lalmuana	Durtlang Leitan	1	Tuirial	P-V
158	Saihnuna	Chawnpui	1	Tuikual Lui	P-V
159	H.Lalrinmawia	Chanmari W	1	Tlawng	P-IV
160	Lalmalsawma	Chanmari W	1	Tlawng	P-IV
161	Vanlalhmuaka	Tlangnuam DK	1	Tlawng	P-IV
162	Lalpianruala	Zuangtui	1	Tuirial	P-V
163	Lalremsangi	Aizawl Venglai	1	Chite	P-V
164	Saidenga 1	Upper Republic	1	Chite	P-V
165	L.Thangmawia 1 MLA	Mission VT	1	Tlawng	P-IV
166	Lalkhumtiri	Kulikawn	1	Tlawng	P-IV
167	Robert Lalfamkima 1	Ramhlun venglai	1	Chite	P-V
168	Chawnghminga	Bethlehem V.T	1	Tlawng	P-IV
169	Laitluanga	Bethlehem V.T	1	Chite	P-V
170	H.D Darbuka	Chawlhhmun	1	Tlawng	P-IV
171	C.Liansanga	Zuangtui	1	Tuirial	P-V
172	C.Laldangliani	ITI	1	Chite	P-V
173	C.Vanlalliana	Tuithiang	1	Chite	P-V
174	KL.Dingliana	Muanna veng	1	Tuirial	P-V
175	Tlanghmingthangi	Khatla Bungkawn	1	Tlawng	P-IV

176	Laltanpuia sailo	Bawngkawn	1	Tlawng	P-IV
177	Zohmangaiha	Tuithiang	1	Chite	P-V
178	Tawnliani 1	Bawngkawn	1	Chite	P-V
179	Lalramliana Rokhum	Zemabawk	1	Tuirial	P-V
180	Liansanglura 2	Kanan	1	Tuikual Lui	P-V
181	Vanlalhruaia	Dawrpui VT	1	Tuikual Lui	P-V
182	Liansanglura 1	Kanan	1	Tuikual Lui	P-V
183	H.Lalruatkima	Chaltlang	1	Chite	P-V
184	Hmingthansangi	Tanhril	1	Tlawng	P-IV
185	R.Vanlalruatkima	Electric veng	1	Chite	P-V
186	T.Hmingthanzaua	Ramhlun S	1	Chite	P-V
187	Zaithanmawia	Durtang LT	1	Tuirial	P-V
188	R.Lalthlamuana	Ramhlun S	1	Chite	P-V
189	Lalruatliana 1	Durtlang Leitan	1	Tuirial	P-V
190	Lalruatliana 2	Durtlang Leitan	1	Tuirial	P-V
191	Lalchhanchhuaha	Bethlehem V.T	1	Chite	P-V
192	John Lalthakima	Electric veng	1	Chite	P-V
193	Lalthanpari	Chanmari W	1	Tlawng	P-IV
194	David C Zahmuaka	Mission VT	1	Tlawng	P-IV
195	Hrangdailovi	Edenthar	1	Tlawng	P-IV
196	C.Rothangi	Chanmari W	1	Tlawng	P-IV
197	V.Lalruatsanga	Zemabawk	1	Tuirial	P-V
198	C.Lalthafamkima	Muanna veng	1	Tuirial	P-V
199	Reuben Lalnunthara	Tuikual S	1	Tuikual Lui	P-V
200	Lallungawii 3	Ramhlun VL	1	Chite	P-V
201	ZD.Dengthuama .E.E 2	Durtlang Leitan	1	Tuirial	P-V
202	Lalthanzama,	Bungkawn	1	Tuikual Lui	P-V
203	Lalrinsanga	Mission VT	1	Tuikual Lui	P-V
204	SN Thanga	Bethlehem	1	Chite	P-V
205	Lalnunzira	Gov't Complex	1	Tuikual Lui	P-V
206	Lianlkunga	Tuikual S	1	Tuikual Lui	P-V

207	R.Lalrinmawia	Ramthar Veng	1	Chite	P-V
208	Lalchhuanvawra	Selesih	1	Tuirial	P-V
209	Khumtira	Tanhril	1	Tlawng	P-IV
210	Laldawngliana Tlau 2	Durtlang LT	1	Tuirial	P-V
211	C.Lalmalsawma	Zemabok	1	Tuirial	P-V
212	Lalhmingliana	Mission VT	1	Tlawng	P-IV
213	Pc.Zothanpuia	Kulikawn	1	Tlawng	P-IV
214	R.Zothanmawia	Gov't Complex	1	Tlawng	P-IV
215	Vanlalnghaki	Tanhril	1	Tlawng	P-IV
216	David Lalchhuanawma	Durtlang	1	Tuirial	P-V
217	Zofakawma 2	Damveng	1	Chite	P-V
218	John Lalrinawma	Bungkawn VT	1	Tlawng	P-IV
219	Vanlalruata	Tlangnuam	1	Tlawng	P-IV
220	C.Liantluanga	Mualpui	1	Chite	P-V
221	Lalzawmliana	Kulikawn VT	1	Tlawng	P-IV
222	John Zothansanga	Zarkawt	1	Chite	P-V
223	R.Lalengliana	Mission VT	1	Tlawng	P-IV
224	Lalnghakliana	Tlangnuam	1	Tlawng	P-IV
225	Vanlalhuma 1	Durtlang Leitan	1	Tuirial	P-V
226	Vanlalhuma 2	Durtlang Leitan	1	Tuirial	P-V
227	Lalthanzuala Ralte	Mission VT 2	1	Tlawng	P-IV
228	Maria K.Malsawmi 1	Kulikawn	1	Tlawng	P-IV
229	Maria K.Malsawmi 2	Kulikawn	1	Tlawng	P-IV
230	Hc.Vanlalsiama	Mission VT	1	Tlawng	P-IV
231	Jerome Lalremtluanga 1	Chaltlang	1	Chite	P-V
232	Jerome Lalremtluanga 2	Chaltlang	1	Chite	P-V
233	Lalthanzauva	Mission VT	1	Tlawng	P-IV
234	R.Lalnunmawia	Kulikawn	1	Tlawng	P-IV
235	Lalrotluanga 1	Bungkawn YMA rd	1	Tlawng	P-IV
236	Lalrotluanga	Bungkawn YMA rd	1	Tlawng	P-IV

237	Lalrohlui	Bethlehem V.T	1	Chite	P-V
238	Lalrohlui 2	Bethlehem V.T	1	Chite	P-V
239	Malsawmtluangi	Tlangnuam	1	Tlawng	P-IV
240	Lalrammawii	Mission V.T	1	Tlawng	P-IV
241	Rohmingliana 2	Vaivakawn	1	Tlawng	P-IV
242	R.Lalthlamuani	Bawngkawn	1	Tlawng	P-IV
243	R.Lalthlamuani	Bawngkawn	1	Tlawng	P-IV
244	T.Lalnunsanga	Tuikhuahtlang	1	Chite	P-V
245	RS.Lalrinsanga 1	Tanhril	1	Tlawng	P-IV
246	RS.Lalrinsanga 2	Tanhril	1	Tlawng	P-IV
247	RS.Lalrinsanga 3	Tanhril	1	Tlawng	P-IV
248	R.Lalthlamuana 1	Bawngkawn	1	Chite	P-V
249	R.Lalthlamuana 2	Bawngkawn	1	Chite	P-V
250	Tlangliani 2	Chanmari	1	Chite	P-V
251	Lalramhluni	Tanhril	1	Tlawng	P-IV
252	C.Lalnunzami 2	Luangmual	1	Tlawng	P-IV
253	Vanlalveni. 2	Tuikhuahtlang	1	Chite	P-V
254	FH. John	Khatla	1	Tuikual Lui	P-V
255	Chhuntluanga	Hunthar	1	Tuikual Lui	P-V
256	Tharzova	Ramthar N	1	Chite	P-V
257	H.Lalengmawii	Zuangtui	1	Tuirial	P-V
258	Biakmawii	Hlimen	1	Tlawng	P-IV
259	Bobby LR Tluanga	Durtlang	1	Tuirial	P-V
260	F.Lalzawmliana	Bethlehem	1	Chite	P-V
261	C.Sanghmingliana	Zuangtui	1	Tuirial	P-V
262	Laldawngliana Sailo	Zemabawk	1	Tuirial	P-V
263	Thianga	Zotlang	1	Tuikual Lui	P-V
264	Saitluanga	Chaltlang T.V	1	Chite	P-V
265	Saithanzuala	Kulikawn	1	Tlawng	P-IV
266	Saithanzuala	Kulikawn	1	Tlawng	P-IV
267	R.Zapliana	College veng	1	Chite	P-V

268	T.Kapkunga	Republic Veng	1	Chite	P-V
269	Saidenga 2	Upper Republic	1	Chite	P-V
270	Saidenga 3	Upper Republic	1	Chite	P-V
271	Saithanzuala 1	Kulikawn	1	Tlawng	P-IV
272	Saithanzuala 2	Kulikawn	1	Tlawng	P-IV
273	Pu.Kima	Mission VT	1	Tlawng	P-IV
274	Jonathan 1	ITI	1	Chite	P-V
275	Jonathan 2	ITI	1	Chite	P-V
276	Robert Lalfamkima 2	Ramhlun venglai	1	Chite	P-V
277	Laldawngliana Tlau 2	Durtlang LT	1	Tuirial	P-V
278	Zokhuma	Chawlhhmun	1	Tlawng	P-IV
279	R.Lalthankimi	ITI	1	Chite	P-V
280	Lalthluaii	Venglai	1	Chite	P-V
281	Lianhmingthanga	Tlangnuam	1	Tlawng	P-IV
282	T.Hmingthanzaua	Ramhlun S	1	Chite	P-V
283	Uma Rasaily	Ramthar N	1	Chite	P-V
284	C.Lalramngheta	Luangmual	1	Tlawng	P-IV
285	Lalbiakliani	Chawlhhmun	1	Tlawng	P-IV
286	Hmangaihzuala	Republic Veng	1	Chite	P-V
287	PC Chuauthanga	Republic Veng	1	Chite	P-V
288	Lalengmawia	Dinthar	1	Tuikual Lui	P-V
289	Zonunsanga	Zemabawk	1	Tuirial	P-V
290	K.Vanlalringa	Falkland	1	Chite	P-V
291	C.Lallunghnema	Mission V.T	0.75	Tlawng	P-IV
292	Hellen Rodingliani	Dinthar	0.75	Tuikual Lui	P-V
293	C.Zothantluanga	Mission V.T	0.75	Tlawng	P-IV
294	Malsawma	Thuampui	0.75	Chite	P-V
295	Lalzikpuii	Khatla E	0.75	Tlawng	P-IV
296	Vanlalruati	Ramhlun V.L	0.75	Chite	P-V
297	H.Ralkapthanga	Hlimen	0.75	Tlawng	P-IV
298	K.Lalbiakmawia	Sihphir	0.75	Tuirial	P-V

299	Rc.Lalrinawma	Central Jail Veng	0.75	Tlawng	P-IV
300	H.Rotluanga	Dinthar	0.75	Tuikual Lui	P-V
301	L.P.Lalrinmawia	Thakthing veng	0.75	Chite	P-V
302	K.Lalkamliana	Ramhlun N	0.75	Chite	P-V
303	R.Lalrammawia	Gov't Complex	0.75	Tlawng	P-IV
304	Lalthanpuii	Luangmual	0.75	Chite	P-V
305	Lalhriatpuia 2	Hlimen	0.75	Tlawng	P-IV
306	Lalrohlui 1	Bethlehem V.T	0.75	Chite	P-V
307	R.Lalrinliana	Mission VT	0.75	Tlawng	P-IV
308	Lalthuama sailo 2	Dawrpui VT	0.75	Tuikual Lui	P-V
309	Lalhriatpuia 1	Hlimen	0.75	Tlawng	P-IV
310	PB.Lalbiaksanga	Mission V.T	0.75	Tlawng	P-IV
311	Zairemveli	Bethlehem V.T	0.75	Chite	P-V
312	Lalawmpuia Pautu	Bethlehem V.T	0.75	Chite	P-V
313	Zothankima	Tuikhuahtlang	0.75	Chite	P-V
314	Saithangzuala	Kulikawn	0.75	Tlawng	P-IV
315	K. Lalrinzuala	Durtlang	0.75	Tuirial	P-V
316	RL Tawna	Ramhlun	0.75	Chite	P-V
317	RL Tawna	Ramhlun	0.75	Chite	P-V
318	Lalmuankima	Hlimen	0.75	Tlawng	P-IV
319	Chalthangvunga 2	Zemabawk	0.75	Tuirial	P-V
320	R.Lalnunhlua	Zuangtui	0.75	Tuirial	P-V
321	H.Lalkhawsanga	Zemabawk	0.75	Tuirial	P-V
322	H.Lalkhawsanga	Zemabawk	0.75	Tuirial	P-V
323	Malsawma	Electric veng	0.75	Chite	P-V
324	Laldawngliana Sailo	Zemabawk	0.75	Tuirial	P-V
325	Lalnunsanga	Venglai	0.75	Chite	P-V
326	Lalsangzeli	Sakawr tui chhun	0.75	Tlawng	P-IV
327	R Lalrinmawia	Ramthar	0.75	Chite	P-V
328	Lalramthara	Bethlehem	0.75	Chite	P-V

329	Malsawmzuala	Sihphir	0.75	Tuirial	P-V
330	R.Zatawna	Kanan	0.75	Tuikual Lui	P-V
331	Lalparmawia sailo	Bethlehem V.T	0.75	Chite	P-V
332	R Lalrammawia	Tanhril	0.75	Tuikual Lui	P-V
333	Vanlalsawma	Ramhlun VL	0.75	Chite	P-V
334	F. Vanlalruata	Bawngkawn	0.75	Chite	P-V
335	HK Laldinthara	Central Jail Veng	0.75	Tlawng	P-IV
336	Hranga	Hlimen	0.75	Tlawng	P-IV
337	Thanzuala	Zemabawk	0.75	Tuirial	P-V
338	Samuela	Salem veng	0.75	Chite	P-V
339	Lalchhuangi	Tanhril	0.75	Tlawng	P-IV
340	H.S Laltanliana	Saron	0.75	Chite	P-V
341	Lalthlamuani	Gov't Complex	0.75	Tlawng	P-IV
342	Zoramchhana 1	Chawnpui	0.75	Tlawng	P-IV
343	C.Dochungnunga	Zuangtui	0.75	Tuirial	P-V
344	Lalringngheta	Bethlehem	0.75	Chite	P-V
345	K.Vanlalhmangaihi	Zemabawk	0.75	Tuirial	P-V
346	Tawnliani2	Bawngkawn	0.75	Chite	P-V
347	Lalhriatpuia	Chawnpui	0.75	Tuikual Lui	P-V
348	F.Lalsangpuii	Republic VT	0.75	Chite	P-V
349	David C Zahmuaka	Mission VT	0.75	Tlawng	P-IV
350	Zongaihzuali	Zemabawk	0.75	Tuirial	P-V
351	Jocy VL Chhanhima	Electric veng/Maubawk	0.75	Chite	P-V
352	Thangchhuana	ITI	0.75	Chite	P-V
353	Hmingdailova	Tuikhuahtlang	0.75	Chite	P-V
354	R.Vanlalawmpuia	Salem veng	0.75	Chite	P-V
355	Ramhuapliana	Durtlang	0.75	Tuirial	P-V
356	Maj Lalzawmliana	Hunthar	0.75	Tlawng	P-IV
357	Rohmingthangi	Nursery	0.75	Tlawng	P-IV
358	HS.Lalnghakliana	Mission VT	0.75	Tlawng	P-IV
359	Darrochami	Dawrpui VT	0.75	Tuikual Lui	P-V

360	Lalhmangaihzuali	Dawrpui VT	0.75	Tuikual Lui	P-V
361	Lalrohlui1	Bethlehem V.T	0.75	Chite	P-V
362	Lalchhandama 2	Ramhlun N	0.75	Chite	P-V
363	Zoramchhana 2	Chawnpui	0.75	Tuikual Lui	P-V
364	Rongenga	Tlangnuam	0.75	Tlawng	P-IV
365	Rochungnungi	Tlangnuam	0.75	Tlawng	P-IV
366	C.Rothangi	Chanmari W	0.75	Tlawng	P-IV
367	Rosangzuala	Durtlang	0.75	Tuirial	P-V
368	PL.Siamliana 1	Mission VT	0.75	Tlawng	P-IV
369	PL.Siamliana 2	Mission VT	0.75	Tlawng	P-IV
	TOTAL(A):		**349.25**	**Units**	

ANNEXURE-I (Office of the Executive Engineer, PHED)
Sewerage & Drainage Aizawl 'E' Division

B/Masonry Biodigester Details

Sl. No.	Beneficiary Details		B/ Masonry Details	Name of River	Category
	Name of Beneficiaries	Address	Unit *(1unit= 1000lit)*		
1	2	3	4	5	
1	Lalmuanzova	Ramhlun 'N'	1	Chite	P-V
2	Lalremsiama	Chawnpui	1	Tuikual Lui	P-V
3	C.Lalmuanpuia	Chanmari West	1	Tlawng	P-IV
4	Dr.Vanlalthlana	Ramhlun 'N'	1.2	Chite	P-V
5	Lalzawmliana	Armed veng 'S'	1.2	Chite	P-V
6	Zabiaka	Chanmari	1.2	Chite	P-V
7	Vanlalruati	Ramhlun V.L.	1.2	Chite	P-V
8	Lalrinawma Sailo	Chaltlang Lily	1.2	Chite	P-V
9	Krossmawii	Zonuam	1.2	Tuikual Lui	P-V
10	Pc. Chunglura	Chawnpui	1.2	Tuikual Lui	P-V
11	Thangchhingpuii	Saron Veng	1.2	Chite	P-V
12	Thangrodinga	Salem veng	1.2	Chite	P-V
13	Lalnunmawia Khiangte.	Tanhril (MZU Campus)	1.2	Tlawng	P-IV
14	H Thankhumi	Chawlhhmun	1.2	Tlawng	P-IV
15	Lalruatkima Ralte	Durtlang leitan	1.2	Tuirial	P-V
16	Pu Rina S/O	Chawlhhmun	1.2	Tlawng	P-IV
17	C.Zothantluanga	Mission V.T	1.2	Tlawng	P-IV
18	John Zothansanga	Zarkawt	1.2	Chite	P-V
19	Nguldama	Ramhlun 'N'	1.7	Chite	P-V
20	C.Tlanglawma	Salem Veng	1.7	Chite	P-V
21	Chawnghuliana	Chanmari West	1.7	Tlawng	P-IV
22	C.Lalsangluaia	Dinthar Tlang	1.7	Tuirial	P-V
23	LC Hlima Pautu	Durtlang	1.7	Tuirial	P-V
24	C. Varparha	Salem	1.7	Chite	P-V
25	Pu Lalneihkima	Dinthar	1.7	Tuikual Lui	P-V

26	Pu Thangkima	Kulikawn	1.7	Tlawng	P-IV
27	David Lalchhuanawma	Durtlang	1.7	Tuirial	P-V
28	Pastor RS Rokima	Tlangnuam 'w'	1.7	Tlawng	P-IV
29	Lalhmuaka	Maubawk	1.7	Tlawng	P-IV
30	Thanchhunga	Durtlang Mel-5	1.7	Tuirial	P-V
31	R.L. Mangliana	Nursery	1.7	Tlawng	P-IV
32	Rosiama	Selesih	1.7	Tuirial	P-V
33	R.Vanlalawmpuia	Salem veng	1.7	Chite	P-V
34	B.Lalruma Sailo	Chawnpui	2.3	Tuikual Lui	P-V
35	Lalkailiana	Chanmari	2.3	Tuirial	P-V
36	Lalrinthangi	Ramhlun 'S'	2.3	Chite	P-V
37	R.K.Vanlalsawma 1	Kanan Veng	2.3	Tuikual Lui	P-V
38	Thangrosiama	Chawlhhmun	2.3	Tlawng	P-IV
39	Nghakkhawma	Bawngkawn	2.3	Chite	P-V
40	B.Chhawnkima	Dinthar	2.3	Tuikual Lui	P-V
41	Isaack Lalchhuanmawia	Durtlang	2.3	Tuirial	P-V
42	Jerry Lalhmunsanga	Durtlang	2.3	Tuirial	P-V
43	H Lalchhandama	Kulikawn Zobawm	2.3	Tlawng	P-IV
44	R.Lalnithanga	Chhinga veng	2.3	Chite	P-V
45	H Lalparliani	Durtlang LT	2.3	Tuirial	P-V
46	Denghmingthanga	Kulikawn	2.3	Tlawng	P-IV
47	R Vanlalawmpuia	Salem Mualpui	2.3	Chite	P-V
48	Pu Tluanga	Ramhlun 'N	2.3	Chite	P-V
49	R.Rohmingliana	Ramhlun N	2.3	Chite	P-V
50	Lalngaihawma	Zemabawk	2.3	Tuirial	P-V
51	Pu Pahlira	Bethlehem VT	2.3	Chite	P-V
52	F.Lawmsangi	Zotlang	2.3	Tuikual Lui	P-V
53	Lalrinsanga	Chawnpui	2.3	Tuikual Lui	P-V
54	Lalrinsanga	Chawnpui	2.3	Tuikual Lui	P-V
55	Zoliana	Kulikawn	2.9	Tlawng	P-IV
56	Chanchinmawii	Dinthar	2.9	Tuikual Lui	P-V
57	Lalsawta	Tuikual "S"	2.9	Tuikual Lui	P-V
58	Lalduhawmi	Chanmari	2.9	Chite	P-V

59	KC Zorammuana	Chaltlang LIly	2.9	Chite	P-V
60	LBS Suzuki (Mesai-a)	Bawngkawn Brg	2.9	Chite	P-V
61	LBS Suzuki (Mesai-a)	Bawngkawn Brg	2.9	Chite	P-V
62	Pu Chhantea	Ramhlun S	2.9	Chite	P-V
63	V.L.Nunmawia	Ramhlun 'N'	3.5	Chite	P-V
64	Laldinsanga hnamte	khatla bungkawn	3.5	Tuikual Lui	P-V
65	K.zosangliana	Chaltlang	3.5	Chite	P-V
66	H Lalparliani	Durtlang LT	3.5	Tuirial	P-V
67	Lalduhawmi	Chanmari (Saron road)	3.5	Chite	P-V
68	Vanlalawmpuia	Bawngkawn brigade	3.5	Tuirial	P-V
69	Vanlalngena	Chawnpui	4.2	Tuikual Lui	P-V
70	S.Beihrosa 1	Bawngkawn Brigate-I	4.2	Tuirial	P-V
71	S.Beihrosa 2	Bawngkawn Brigate-Il	4.2	Tuirial	P-V
72	R. Sangkhuma	Khatla	4.2	Tuikual Lui	P-V
73	C.Lalhmingliana	Upper Kannan	4.8	Tuikual Lui	P-V
74	Lianlunga Sailo	Venghlui	4.8	Chite	P-V
75	H.Rotluanga FTH	Dinthar	4.8	Tuikual Lui	P-V
76	Vanlalnghaka	Vaivakawn	4.8	Tuikual Lui	P-V
77	C.Chawnghnuna	Zemabawk	-	Tuirial	P-V
78	Lalnghahmawia	Dinthar	6	Tuikual Lui	P-V
79	Manhnuni	Thakthing	0	Chite	P-V
80	Lalmalsawma	Bawngkawn	6	Chite	P-V
81	Skyride Construction	Civil Hospital	6	Tuikual Lui	P-V
82	Skyride Construction	Civil Hospital	6	Tuikual Lui	P-V
83	Ramfangzaua	ITI	6	Chite	P-V
84	AMC (Mawitea)	Thuampui	6	Chite	P-V
85	AMC (Mawitea)	Thuampui	6	Chite	P-V
86	Lushai Engineer/Join YMA Multipurpose Hall, Vaivakawn	Vaivakawn	12	Tuikual Lui	P-V
		TOTAL(B):	**229**	Units	
	GRAND TOTAL OF FRP AND BRICK MASONRY UNITS(A+B):		**578**	**Units**	

		TOTAL MLD TREATED:	**0.578**	**MLD**	

Annexure-II (STATUS OF ETP FOR MIZORAM)																		
Sl. No.	Name and Address of the Industry	Contact No.	District	Category of the Industry	Type of the industry	Does the unit fall under 17 categories of highly polluting industries?	Is the unit classified as Grossly Polluting Industry	Location Co-ordinates of the unit	Operation Status	Name of the river basin where units is located	Disposal point	Name of disposal point	Status ETP	Designed capacity of ETP (MLD)	Daily Average volume of Effluent Generation (MLD)	Daily Average volume of treated effluent (MLD)	Treatment Capacity Gap (MLD)	Industry complying with environment standards	Remark
1	M/s T.C. Bakery, Upper Zarkawt	Thluaipuii 9436152985	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.738567 92.716019	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 6kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0001	0.00005	0.00005	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
2	M/s Bake House, Tuikhuahtlang	Lalhmingliana Colney 0389-2310232	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.719495 92.718836	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 7kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0001	0.00004	0.00004	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
3	M/s L.V. Patisserie, Chaltlang	L.V. Lalrinpuia 0389-2349666 9436767491	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.751631 92.722497	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0001	0.00004	0.00004	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.

4	M/s K.C. Bakery, Tuithiang	Lalchhanhima 9436153548 9436195122	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.729418 92.720713	Yes	Barak etc (upto Border)	Drain	Lungli stream at a distance of about 2 kms from the unit which meets Chite Stream at a distance of about 3 kms and then meets river Tuirial after 15 kms approx	Yes	0.0001	0.00003	0.00003	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
5	M/s Hmingliani Bakery, Mission Vengthlang 796005	Hmingliani 0389-2326350	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.752908 92.706088	Yes	Barak etc (upto Border)	Drain	Vai lui (Stream) at a distance of about 2 kms from the unit which meets river Tlawng after 6 kms approx	Yes	0.0005	0.0003	0.0003	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
6	M/s P.S. Bakery, Armed Veng 796007	P.S. Lalpianpuia 8258847192 9862426785	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.733825 92.729069	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 2 kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0002	0.00003	0.00003	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
7	M/s Cookie Jar, Chanmari 796007	Lalsangpuii 9862572516	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.742159 92.717382	Yes	Barak etc (upto Border)	Drain	Natural drains at about 2 kms from the unit which meets Tlawng river at about 18 kms approx	Yes	0.0002	0.00015	0.00015	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.

8	M/s Holy Cross Bakery, Zotlang 796009	Lalhmangaiha Sailo 0389-2342600 9436360275	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.720549 92.715498	Yes	Barak etc (upto Border)	Drain	Li Bial lui (Stream) at about 4 kms from the unit which meets Tlawng river after 7 kms approx	Yes	0.0001	0.000005	0.000005	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
9	M/s Blav's Bakery, Thakthing tlang	Bawihluta 0389-23296913	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.712458 92.721097	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5 kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.001	0.0002	0.0002	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
10	M/s Nu-Nun Bakery, Ramthar, Tlang veng		Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.740021 92.725239	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 4kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0001	0.00005	0.00005	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
11	M/s J&J Bakery, Bethlehem 796007	Lalrelkima Fanai 9862311635	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.726862 92.723560	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 3 kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0001	0.00003	0.00003	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.

12	M/s C.Mart Bakery, Chanmari (Glenaries)	John R. Chhangte 0389-2340120 9615418810	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.739638 92.717035	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.001	0.0007	0.0007	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
13	M/s Zote Bakery, Lower Zarkawt	Lalrinmawia Tochhawng 0389-2340109	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.737810 92.717220	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0015	0.001	0.001	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
14	M/s L.S. Bakery, Chanmari 'W', Near Salvation Army Church	Lalliansangpuii 9436364020 8974143982	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.744318 92.716309	Yes	Barak etc (upto Border)	Drain	Natural drains at about 3 kms from the unit which meets Tlawng river at about 13 kms approx	Yes	0.001	0.0003	0.0003	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
15	M/s C.K. Bakery and Confectionaries, Kanan Veng 796009	Judie Lallungtiawii 9436149877	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.734677 92.709953	Yes	Barak etc (upto Border)	Drain	Natural drains at about 3 kms from the unit which meets Tlawng river at about 12 kms approx	Yes	0.0005	0.00023	0.00023	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.

16	M/s Vogue Bakery, Zotlang	Lallawmzuali	Aizawl	Green	Bakery/ confection (with production capacity <1 TPD with gas or electric oven)	No	No	23.740762 92.705994	Yes	Barak etc (upto Border)	Drain	Natural drains at about 3 kms from the unit which meets Tlawng river at about 15 kms approx	Yes	0.0005	0.0002	0.0002	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
17	M/s Hotel Ritz, Dawrpui	Hmingliani 9436141361	Aizawl	Orange	Hotel	No	No	23.729898 92.716878	Yes	Barak etc (upto Border)	Drain	Tuikual stream at a distance of about 3kms which meets Tlawng river after 15 kms approx	Yes	0.005	0.0035	0.0035	0	Yes	
18	M/s The Esquire, Sikulpuikawn	Biakthanmawia 9436142525 9862354550	Aizawl	Green	Hotel	No	No	23.717137 92.719066	Yes	Barak etc (upto Border)	Drain	Lungli stream at a distance of about 1 kms from the unit which meets Chite Stream at a distance of about 3 kms and then meets river Tuirial after 15 kms approx	Yes	0.002	0.001	0.001	0	Yes	
19	M/s David Hotel Clover, G-16, Chanmari	David Lalhmangaiha 9862310838 8730971457	Aizawl	Green	Hotel	No	No	23.739966 92.716481	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.002	0.001	0.001	0	Yes	

20	M/s Hotel Chief, Zarkawt	Lalrinenga Sailo 0389-2341097 0389-2340324 9436141209	Aizawl	Orange	Hotel	No	No	23.736430 92.716948	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.002	0.0012	0.0012	0	Yes	
21	M/s Hotel Chawlhna, Zarkawt	M.S. Dawngliani 0389-2342292	Aizawl	Orange	Hotel	No	No	23.737643 92.717071	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.002	0.0015	0.0015	0	Yes	
22	M/s Hotel Hill Orchid, Dawrpui	Lalchhanhimi 0389-2316565	Aizawl	Green	Hotel	No	No	23.733136 92.717635	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.003	0.002	0.002	0	Yes	
23	Hotel Floria, Bara Bazar	Thanzami Tochhawng & Denis M. Ralte 9436960301 9436154319	Aizawl	Orange	Hotel	No	No	23.733724 92.717683	Yes	Barak etc (upto Border)	Drain	Ramthar lui, Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.005	0.002	0.002	0	Yes	

24	M/s Hotel Arini, Khatla	B. Zosangliana 0389-2301557 0389-2314044	Aizawl	Orange	Hotel	No	No	23.722209 92.717930	Yes	Barak etc (upto Border)	Drain	Tuikual stream at a distance of about 5 kms which meets Tlawng river after 15 kms approx.	Yes	0.002	0.001	0.001	0	Yes	
25	M/s Hotel Serow, Chaltlang	B.Darchhinga Chaltllang, Lily Veng	Aizawl	Orange	Hotel	No	No	23.751555 92.727118	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.001	0.0008	0.0008	0	Yes	
26	M/s Grand Hotel, Chanmari	David Zohmachhuana 943614930	Aizawl	Orange	Hotel	No	No	23.738873 92.716505	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.003	0.002	0.002	0	Yes	
27	M/s Hotel Royale, Dawrpui	J. Thankunga 9862304664	Aizawl	Orange	Hotel	No	No	23.731526 92.717249	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.002	0.001	0.001	0	Yes	

28	M/s Hotel Regency, Zarkawt	Biakchhunga 9436142096	Aizawl	Orange	Hotel	No	No	23.738338 92.716542	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.003	0.0025	0.0025	0	Yes	
29	M/s Hotel Ahimsa, Zarkawt	Lalbiaknii 0389-2341133 0389-2345542	Aizawl	Orange	Hotel	No	No	23.735587 92.715809	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.001	0.0005	0.0005	0	Yes	
30	M/s Jay Jay Foods, Falkland, Zemabawk	Jervis Lalramnghaka 9612393893 9436955500	Aizawl	Orange	Food & Fruit Processing	No	No	23.737323 92.740473	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 3kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0005	0.0002	0.0002	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
31	M/s 3.L Mizo Foods, Salem Veng	Pu K. Lalrodinga	Aizawl	Orange	Food & Fruit Processing	No	No	23.709449 92.726611	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 3kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0001	0.00006	0.00006	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (B)(b) of the Environment Protection (Rules), 1986.

32	M/s Moon Star Rice Cake, Zemabawk	Nangsiammung 9862381670	Aizawl	Orange	Food & Fruit Processing	No	No	23.734561 92.764709	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 3kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0001	0.00007	0.00007	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
33	M/s C.B. Enterprise, Bethlehem Vengthlang	C.B. Liankhuma 9856933433 9862735699	Aizawl	Orange	Food & Fruit Processing	No	No	23.728966 92.722901	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 3kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.0001	0.00005	0.00005	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
34	M/s Blue Berry Ice Cream, Mission Veng	H. Lallenpuii 9774510215 9862937474	Aizawl	Orange	Ice Cream	No	No	23.716276 92.715224	Yes	Barak etc (upto Border)	Drain	Vai lui (Stream) at a distance of about 2 kms from the unit which meets river Tlawng after 6 kms approx	Yes	0.0002	0.00015	0.00015	0	Yes	
35	M/s K.L.T. Fruit Processing Industry, Edenthar	K.L.Tluanga 8132935836	Aizawl	Orange	Food & Fruit Processing	No	No	23.756485 92.717071	Yes	Barak etc (upto Border)	Drain	Natural drain which meets Tlawng river at about 14 kms approx.	Yes	0.0001	0.00006	0.00006	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (B)(b) of the Environment Protection (Rules), 1986.

36	M/s Bee Zet Ice Cream Industry, Khatla	R. Lianzuala 0389-2333867 0389-2333170	Aizawl	Orange	Ice Cream	No	No	23.720276 92.715766	Yes	Barak etc (upto Border)	Drain	Vai lui (Stream) at a distance of about 3 kms from the unit which meets river Tlawng after 6 kms approx	Yes	0.0002	0.00017	0.00017	0	Yes	
37	M/s Lucky Star Soya Egg Rice Cake, Luangmual Vengthlang	Lallianmawia 8575301638 9436702768	Aizawl	Orange	Food & Fruit Processing	No	No	23.741275 92.701726	Yes	Barak etc (upto Border)	Drain	Libial lui (Stream) at a distance of about 2 kms from the unit which meets river Tlawng after 6 kms approx	Yes	0.0001	0.000075	0.000075	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 (C)(a) (ii) of the Environment Protection (Rules), 1986.
38	M/s Sunrise Soft Drinks, Ramhlun North		Aizawl	Orange	Food & Fruit Processing	No	No	23.746648 92.722914	Yes	Barak etc (upto Border)	Drain	Chite lui (Stream) at a distance of about 1 kms from the unit which meets river Tlawng after 6 kms approx	Yes	0.0002	0.00015	0.00015	0	Yes	The unit is small scale and wastes water disposal via septic tank is permissible as per Sl No 51 A(b) of the Environment Protection (Rules), 1986.
39	M/s Zonu Meat Processing, Mission Veng	Dr. Vanramhlimpuii 9862641893	Aizawl	Red	Meat Processing	No	No	23.715384 92.720245	Yes	Barak etc (upto Border)	Drain	Vai lui (Stream) at a distance of about 5 kms from the unit which meets river Tlawng after 6 kms approx	Yes	0.0003	0.00025	0.00025	0	Yes	

40	M/s Slaughter House, Mualpui		Aizawl	Red	Meat Processing	No	No	23.705001 92.736244	Yes	Barak etc (upto Border)	Drain	Natural drain at about 1km from the unit which meets chite stream at about 1.5 kms and then meetTlawng river at about 14 kms approx.	Yes	0.0005	0.0003	0.0003	0	Yes	
41	M/s Greenwood Hospital,Bawngkawn, Aizawl	Nursing Superintendent 9856136798	Aizawl	Red	Hospital	No	No	23.755497 92.731038	Yes	Barak etc (upto Border)	Drain	Side drain which meets chite stream at about 1.5 kms and then meetTlawng river at about 14 kms approx.	Yes	0.001	0.0007	0.0007	0	Yes	
42	M/s Ebenezer Medical Centre. Chawnpui, Aizawl	Managing Director 9436195087	Aizawl	Red	Hospital	No	No	23.731202 92.707832	Yes	Barak etc (upto Border)	Drain	Tuikual lui (Stream) at a distance of about 500 mts from the unit which meets river Tlawng after 8 kms approx	Yes	0.02	0.001	0.001	0	Yes	
43	M/s BN Hospital & Research Centre , Kulikawn		Aizawl	Red	Hospital	No	No	23.710908 92.719462	Yes	Barak etc (upto Border)	Drain	Vai lui (Stream) at a distance of about 3 kms from the unit which meets river Tlawng after 6 kms approx	Yes	0.0005	0.0005	0.0005	0	Yes	

44	M/s Nazareth Hospital , Ramhlun South		Aizawl	Red	Hospital	No	No	23.748506 92.724134	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 6kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.001	0.0005	0.0005	0	Yes	
45	M/s Grace Nursing Hospital & Research Centre, Lower Zarkawt		Aizawl	Red	Hospital	No	No	23.736116 92.717365	Yes	Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.001	0.00065	0.00065	0	Yes	
46	Civil Hospital , Dawrpui Aizawl		Aizawl	Red	Hospital	No	No	23.732300 92.716526	Yes	Barak etc (upto Border)	Drain	Tuikual stream at a distance of about 3kms which meets Tlawng river after 15 kms approx	Yes	0.02	0.01	0.01	0	Yes	
47	M/s Aizawl Hospital & Research Centre, Khatla		Aizawl	Red	Hospital	No	No	23.718775 92.717601	Yes	Barak etc (upto Border)	Drain	Vai lui (Stream) at a distance of about 3 kms from the unit which meets river Tlawng after 6 kms approx	Yes	0.002	0.002	0.002	0	Yes	

48	M/s Alpha Hospital , Kulikawn		Aizawl	Red	Hospital	No	No	23.709216 92.719481	Yes	Barak etc (upto Border)	Drain	Vai lui (stream) at about 3.7 kms from the unit which meets Tlawng River at about 6 kms approx	Yes	0.001	0.0006	0.0006	0	Yes	
49	M/s Kulikawn Hospital , Kulikawn		Aizawl	Red	Hospital	No	No	23.708397 92.715562	Yes	Barak etc (upto Border)	Drain	Vai lui (stream) at about 3 kms from the unit which meets Tlawng River at about 5 kms approx	Yes	0.001	0.0004	0.0004	0	Yes	
50	M/s Synod Hospital, Durtlang		Aizawl	Red	Hospital	No	No	23.772098 92.731021	Yes	Barak etc (upto Border)	Drain	Leitan Stream at about 3 kms from the unit which meets Tlawng river after 15 kms approx	Yes	0.002	0.0008	0.0008	0	Yes	
51	M/s Mizoram state Cancer Institute, Zemabawk		Aizawl	Red	Hospital	No	No	23.732244 92.751173	Yes	Barak etc (upto Border)	Drain	Chite Stream and Muthi stream at a distance of about 5 and 7 kms from the unit which meets river Tuirial after 15 kms approx	Yes	0.001	0.0004	0.0004	0	Yes	

52	M/s Bethany Hospital , Mission Veng	Chief Managing Director 9436351875	Aizawl	Red	Hospital	No	No	23.716626 92.716299	Yes	Barak etc (upto Border)	Drain	Vai lui (Stream) at a distance of about 2 kms from the unit which meets river Tlawng after 6 kms approx	Yes	0.001	0.0004	0.0004	0	Yes	
53	M/s Bethesda Hospital & Research Centre, Bawngkawn Chhim Veng		Aizawl	Red	Hospital	No	No	23.750370 92.726632		Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	No operation since notice for disconnection of water supply was served as per the order.		0.0004				No operation since notice for disconnection of water supply was served as per the order.
54	M/s K.K. Dairy, Bawngkawn	Samuel K. Kawla 9436144171	Aizawl	Orange	Dairy	No	No	23.754122 92.728345	Yes	Barak etc (upto Border)	Drain	Natural drain which meets Tlawng river at about 15 kms approx.	No operation since notice for disconnection of water supply was served as per the order.	0.005	0.0002	0.0002		Yes	Reported construction of ETP.

55	M/s Zonuam Food Processing Centre, Zonuam	R. Lalrohlua 9612078505	Aizawl	Red	Meat Processing	No	No	23.739744 92.701609		Barak etc (upto Border)	Drain	Libial lui (Stream) at a distance of about 2 kms from the unit which meets river Tlawng after 6 kms approx	No operation since notice for disconnection of water supply was served as per the		0.0002					No operation since notice for disconnection of water supply was served as per the order.
56	M/s Hmingliani Ice Cream, Dawrpui, Aizawl	Lalrinsanga 9089524366	Aizawl	Orange	Ice Cream	No	No	23.720284 92.715783		Barak etc (upto Border)	Drain	Chite Stream at a distance of about 5kms from the unit which meets river Tuirial after 15 kms approx	No operation since notice for disconnection of water supply was served as per the		0.0002					No operation since notice for disconnection of water supply was served as per the order.

Water Quality Data of 9 (NINE) Polluted River stretches in Mizoram
(OA - No. 673 of 2018)

FEBRUARY
2021

MIZORAM STATE POLLUTION CONTROL BOARD

DETAILS OF POLLUTED LOCATIONS & RESULTS OF FIELD PARAMETERS FOR THE MONTH OF FEBRUARY, 20210

Sl. No.	Station Code	Name of Station	Location	Co-Ordinates			A. STATIONS DETAILS												
							Sampling Date	Sampling Time	Used Based Class	Major Polluting Sources	Visibility Effluent Discharge	Use of water in Down Stream (irrigation, industrial, domestic, drinking water source, organised water source, cultivation, fishing, bathing ghat, others)	Weather	Depth of Water Body (m)	Human activities (Bathing, Washing, Cultivation, Fishing, Boating, Gardening, Tourist spot, cattle wedding, others)	Floating matter	Colour	Odour	Flow (m/s)
				Longitude	Latitude	Elevation	1	2	3	4	5	6	7	8	9	10	11	12	13
1	3756	Tiau River	Near Boundary Tiau Bridge, Zokhawthar Village, Champhai District, Mizoram	93°23′31.0″E	23°21′42.8″N	720m	15-02-2021	10.30		Domestic			Clear	1.1	Washing		Pale yellow	Odour free	0.5
2	3709	Tlawng River, Sairang	Sairang Village, Aizawl District, Mizoram	92°39′10″E	23°48′49″N	80m	15-02-2021	12.16		Agriculture			Clear	3	Sand collection		Clear	Odour free	0.5
	3734	Tlawng River, Upper Stream, Lunglei	Near Tlawng Bridge, Mausen Village, Lunglei District, Mizoram	92°49′15.0″E	22°51′21.2″N	1080m	08-02-2021	12.00		Agriculture		Washing, Bathing	Clear	0.3	Washing, Domestic Purpose		Clear	Odour free	0.3
	3736	Tlawng River, Pialthleng, Zotlang, Lunglei	Near P.H.E Water Treatment Plant, Zotlang, Lunglei Distirct, Mizoram	92°45′45.7″E	22°56′53.5″N	800m	08-02-2021	3.15		Agriculture		Drinking Water Source	Clear	3.1	Dwelling Vehicular Movement		Clear	Odour free	0.2
	3754	Tlawng River, Downstream,Bairabi	Bairabi Village, Kolasib District, Mizoram	92°32′14.3″E	24°10′44.7″N	40m	14-02-2021	2.30		Agriculture			Clear	1	Fishing		Pale yellow	Odour free	0.2
3	3757	Tuipui River	Near P.H.E Treatment Plant, Champhai District, Mizoram	93°16′27″E	23°30′18.8″N	800m	15-02-2021	11.30		Agriculture		Drinking Water Source	Clear	1.5			Clear	Odour free	0.2
4	3720	Tuivawl River	Near Tuivawl Bridge, Seling Village, Aizawl District, Mizoram	93°2′6″E	23°38′31″N	500m	17-02-2021	12.45		Agriculture		Domestic	Clear	0.5	Washing & Bathing		Clear	Odour free	0.5
5	3718	Chite River	Near Mini Sports Complex, Armed Veng, Aizawl, Mizoram	92°44′17.5″E	23°43′59.2″N	680m	01-02-2021	12.00		Domestic			Clear	0.2			Clear	Odour free	0.3
6	3735	Mat River	Near Mat Bridge, Dawn Village, Lunglei District, Mizoram	92°52′19.7″E	22°53′58.4″N	380m	08-02-2021	10.10		Agriculture		Washing, Domestic Purpose	Clear	1.5	Plantation, Gardening		Clear	Odour free	0.6
7	3740	Saikah stream	Saikah Village, Lawngtlai, Mizoram	92°53′40.1″E	22°27′21.3″N	800m	25-02-2021	9.30		Domestic		Drinking Water Source	Clear	0.2			Clear	Odour free	0.2
8	3712	Tuikual Stream	Near PHE Water Treatment Plant, Reiek Kai, Aizawl District, Mizoram	92°39′46″E	23°42′57″N	270m	08-02-2021	11.45		Domestic			Clear	2			Clear	Odour free	0.5
9	2052	Tuirial U/s, Aizawl	Tuirial Village, upstream of Tuirial Bridge	92°47′58.25″E	23°43′8.99″N	187m	02-02-2021	12.45		Agriculture			Clear	0.5	Fishing		Clear	Odour free	0.5
	2053	Tuirial L/s Aizawl	Turial Village, downstream of Tuirial Bridge	92°47′57.92″E	23°43′5.22″N	185m	02-02-2021	1.15		Agriculture			Clear	0.5	Fishing		Clear	Odour free	0.5

WATER QUALITY DATA OF 9(NINE) POLLUTED RIVER STRETCHES
FOR THE MONTH OF FEBRUARY, 2021

Sl.No	Station Code	B. CORE PARAMETERS								C. GENERAL PARAMETERS											
		Water Temp (°C)	D.O (mg/L)	pH	Conductivity µs/cm	B.O.D (mg/L)	Nitrogen Nitrite ($N\text{-}No_2$) (mg/L)	Faecal Coliform MPN	Total Coliform MPN	Turbidity NTU	Total Alkalinity (mg/L)	Chlorides (mg/L)	Ammonia-N (mg/L)	Total Hardness (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	K (mg/L)	TDS (mg/L)	TSS (mg/L)	Total Phosphate (mg/L)
		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
1	3756	12	4.9	7.9	197	0.2	0.007			7	119.8	12.1	0.281	92	15.2	13	2.5	1	70	15	0.03
2	3709	19	10	8.5	147	2.1	0.012	35	1100	3.9	97.1	9.3	0.483	62	16	5.3	1.5	0.5	70	10	0.058
	3734	15	6.8	7.5	46	1.1	0.011			2.2	28.9	3.7	0.247	38	8	4.3	1.5	0	90	20	0.08
	3736	16	6.7	7.1	78	1.3	0.01			1.5	33.1	7.5	0.331	56	12.8	5.8	1	0	60	20	0.078
	3754	25	6.4	7.8	194	1	0.02			4.7	124	10.3	0.768	94	28	5.8	1.5	0.5	100	10	0.068
3	3757	12	4.4	7.2	65	1.8	0.006			1.5	56.6	8.3	0.372	14	15.2	2.4	2	1	30	10	0.025
4	3720	16	8.4	7.5	122	0.8	0.013			1.8	80.6	5.6	0.893	50	10.4	5.8	3	1	60	10	0.111
5	3718	19	3.3	7.3	583	2.6	0.736	35	2400	5.4	245.9	93	4.625	184	64	5.8	4	1	370	30	0.171
6	3735	17	7.1	6.8	34	1.4	0.015			2.2	31	7.5	0.521	38	8.8	3.8	1	0	50	10	0.079
7	3740	21	7.4	7.72	88	1.6	0.018			1.5	78.5	7.5	0.665	64	16	5.8	2	0	50	10	0.109
8	3712	18	4.7	7.7	286	0.5	0.02	44	53	4.3	144.6	39.1	0.391	88	28	4.3	1	0	140	10	0.093
9	2052	18	5.7	8	176	0.5	0.019	93	290	4.1	107.4	9.3	0.395	76	20	6.2	0.5	0	110	10	0.062
	2053	18	5.5	8.2	175	0.31	0.018	210	290	5	111.6	10.2	0.471	80	24	4.8	0.5	0	130	10	0.066

ANNEXURE - 4

Polluted Rivers Data With Drains Joining the Polluted locations January, 2021

Sl.No	Name of Polluted River	Name of Drains	A. STATIONS DETAILS												
			Sampling Date	Sampling Time	Used Based Class	Major Polluting Sources	Visibility Effluent Discharge	Use of water in Down Stream (irrigation, industrial, domestic, drinking water source, organised water source, cultivation, fishing, bathing ghat, others)	Weather	Depth of Water Body (m)	Human activities (Bathing, Washing, Cultivation, Fishing, Boating, Gardening, Tourist spot, cattle wedding, others)	Floating matter	Colour	Odour	Flow (m/s)
			1	2	3		5	6	7	8	9	10	11	12	13
1	**Tiau River**	LK KAI	15-01-2021	11.00					Clear	N/A			Clear	Odourless	N/A
2	**Tlawng River**	Drain -1 flowing between Pukpui & Zotlang	27-01-2021	11.00					Clear	N/A			Clear	Odourless	N/A
		Drain -2 flowing between nothern side of Serkawn & Zotlang	27-01-2021	11.45				Bathing	Clear	N/A	Public Water Supply		Clear	Odourless	N/A
		Drain -3 flowing between Southern side of Serkawn	27-01-2021	1.30					Clear	N/A	Bathing, Dwelling, Paddy Field		Clear	odourless	N/A
		Dak Lui, Sairang	18-01-2021	12.00					Clear	N/A			Clear	Odourless	0.5
		Lawngpu lui	18-01-2021	12.15					Clear	N/A			Clear	Odourless	0.5
		Bawng lui	20-01-2021	5.30					Clear	0.43			Clear	Odourless	N/A
3	**Tuipui River**	Keilungliah Stream													
4	**Tuivawl River**	Serlui	20-01-2021	2.45					Clear	0.2			Clear	Odourless	0.03
5	**Chite Stream**	Tlak Lui	25-01-2020	2.30					Clear	0.2			Milky	Bad Smell	0.3
		Bangla Lui	25-01-2021	2.00					Clear	0.2			Greyish	Bad Smell	0.3
		Luihnai & Darnam Lui	25-01-2021	1.15					Clear	0.2			Pale Yellow	Foul Smell	0.3
		Sakawrpu lui	25-01-2021	1.30					Clear	0.2			Milky	Bad Smell	0.3
6	**Mat River**	Hmawngawn lui,Serchhip	26-01-2021	1.15				Irrigation	Clear	0.8	gardening, Fish Pond located near the ri		Clear	Odourless	0.9
7	**Saikah Stream**	NIL													
8	**Tuikual Lui**	Chawnpui Lui	19-01-2021	12.00					Clear	0.02			Milky	Pungent Smell	0.03
		Dinthar Lui	19-01-2021	12.20					Clear	0.02			Blackish	Pungent Smell	0.3
		Dawrpui Kawr	19-01-2021	11.25					Clear	0.03			Blackish	Pungent Smell	0.02
9	**Tuirial River**	Theihai Lui	07-01-2021	12.20					Clear	0.2			Pale Yellow	Odourless	0.4
		Hmawngkai Lui	07-01-2021	12.00					Clear	0.2			Pale Yellow	Odourless	0.5
		Lawibual Lui	07-01-2021	11.50					Clear	0.2			Clear	Odourless	0.4

Polluted Rivers Data With Drains Joining the Polluted locations January, 2021

Sl.No	Name of Polluted River	Name of Drains	B. CORE PARAMETERS								C. GENERAL PARAMETERS												
			Water Temp (°C)	D.O (mg/L)	pH	Conductivity µs/cm	B.O.D (mg/L)	Nitrogen Nitrite ($N-No_2$) (mg/L)	Faecal Coliform MPN	Total Coliform MPN	Turbidity NTU	Total Alkalinity (mg/L)	Chlorides (mg/L)	Ammonia-N (mg/L)	Total Hardness (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	K (mg/L)	TDS (mg/L)	TSS (mg/L)	Total Phosphate (mg/L)
1	**Tiau River**	LK KAI	10	3.9	8	191	0.1	0.014	34	2400	7.8	114.3	12.1	0.733	106	32	6.2	1.5	1	150	10	0.086
2	**Tlawng River**	Drain -1 flowing between Pukpui & Zotlang	18	7.5	7.3	64	0.5	0.014	53	2400	1.7	20.7	8.4	0.441	34	8	3.4	2	1	50	0	0.056
		Drain -2 flowing between nothern side of Serkawn & Zotlang	17	7.2	7.3	108	0.7	0.012	43	2400	1.6	26.9	17.7	0.46	36	11.2	1.9	1.5	0.5	80	0	0.078
		Drain -3 flowing between Southern side of Serkawn	17	7.7	7.4	60	0.3	0.012	95	2400	1.5	26.9	11.2	0.551	20	4	2.4	1	0	30	0	0.052
		Dak Lui, Sairang	17	6	8.6	443	5.6	0.182	210	2400	4.8	132.2	68.8	4.1	120	40	4.8	2	0.5	90	10	0.251
		Lawngpu lui	17	7.5	8.03	208	1.3	0.008	53	2400	3.4	219	4.6	0.422	110	32	7.2	2.5	0.5	50	10	0.049
		Bawng lui	27	4	7.97	195	1.8	0.028	43	2400	8.8	115.7	4.6	0.543	90	24	7.2	1.5	0.5	120	20	0.103
3	**Tuipui River**	Keilungliah Stream																				
4	**Tuivawl River**	Serlui	11	8.2	7.6	355	2.2	0.015	75	2400	5.5	126	12.1	0.369	124	40	5.8	2	0.5	150	10	0.073
5	**Chite Stream**	Tlak Lui	19	4.1	7.29	612	1.8	0.065	29	2400	42.8	272.7	67	6.87	120	40	4.8	5	1.5	350	80	0.515
		Bangla Lui	19	4.1	7.6	928	2.5	0.111	1100	2400	67.4	386.4	125.5	8.801	152	48	7.7	7	2	560	70	0.687
		Luihnai & Darnam Lui	19	2.3	7.6	821	1.7	0.027	44	2400	58.4	324.4	100.4	7.197	166	56	6.2	6.5	1.5	530	170	0.398
		Sakawrpu lui	19	0.9	7.3	956	3.4	0.103	1100	2400	59	371.9	118.1	8.831	158	48	9.1	6.5	2.5	650	70	0.633
6	**Mat River**	Hmawngawn lui,Serchhip	16	6.2	6.9	196	3.2	0.014	75	2400	1.6	107.4	19.5	0.361	92	24	7.7	1	0.5	120	0	0.055
7	**Saikah Stream**	NIL																				
8	**Tuikual Lui**	Chawnpui Lui	18	0.4	7.9	949	5.2	0.306	1100	2400	100	338.8	132.1	10.83	130	40	7.2	2	0.5	1560	380	1.025
		Dinthar Lui	18	0.9	7.6	825	7.3	0.29	1100	2400	101.6	338.8	103.2	9.705	168	56	6.7	2.5	0.5	750	100	0.651
		Dawrpui Kawr	18	2.8	7.7	121	4.8	0.259	1100	2400	100	483.5	139.5	11.17	114	32	8.2	2.5	0.5	790	100	0.984
9	**Tuirial River**	Theihai Lui	19	4.1	7.54	672	3.6	0.084	210	2400	100	295.5	93	6.893	206	72	6.2	1	0.5	410	250	0.358
		Hmawngkai Lui	18	4.9	7.7	692	5.7	0.215	20	2400	12.6	291.3	81.8	5.662	188	64	64	1	0.5	350	30	0.207
		Lawibual Lui	20	5.9	8.27	501	4	0.015	290	2400	2.3	109.5	72.5	0.555	216	72	8.6	8.6	0	280	10	0.24