

ANNUAL AVERAGE READING OF WATER QUALITY DATA UNDER NWMP, MIZORAM FOR THE YEAR 2015

Sl. No	Parameter	Method Used	Unit	River Tlawng, Upstream, Aizawl	River Tlawng, Downstream, Aizawl	River Tuirial, Upstream, Aizawl	River Tuirial, Downstream, Aizawl	Ramhlun North Tuikhur, Aizawl	Mission Vengthlang Tuikhur, Aizawl
				2050	2051	2052	2053	2054	2055
1	D.O	Iodometric Method	mg/l	6.5	6.55	6.4	6.34	5.083	2.92
2	pH	Float Method	-	7.4	7.4	7.4	7.5	7.26	6.78
3	Conductivity	Conductometric Method	us/cm	116.9	139.33	167.4	16.3	205.41	557.3
4	BOD	Dilution Method	mg/l	1.35		1.31	1.3	1.108	0.816
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	mg/l	0.093	0.089	0.09	0.106	0.07	0.103
6	Faecal Coliform	Multiple Tube Dilution Method	MPN	2.4	9.3	26.55	30	23.15	13.65
7	Total Coliform	Multiple Tube Dilution Method	MPN	91	145	557.5	1100	1100	1345
8	Turbidity	Turbimetric Method	NTU	-	-	-	-	-	-
9	Alkalinity	Visual Titration	mg/l	47.24	49.6	66.55	73.99	38.91	123.92
10	Chloride	Argentometric titration	mg/l	8.1	8.08	18.45	18.09	30.03	60.61
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.89	0.77	0.56	0.604	0.34	0.619
12	Total hardness	Complexometric Titration	mg/l	48.16	49.7	62.56	69	75.16	137.5
13	Calcium	Complexometric Titration	mg/l	12	12.15	17.8	18.33	20.76	41.1
14	Magnesium	Calculation Method	mg/l	4.31	4.71	5.15	5.9	6.15	8.48
15	Sodium	Flame Photometric method	mg/l	29.7	36.41	35.5	37.75	45.33	77.21
16	TDS	Gravimetric Method	mg/l	137.5	150	136.6	150.83	92.5	93.33
17	TSS	-----do-----	mg/l	66.66	72.5	60.83	73.33	41.66	44.16
18	Phosphate	Calorimetric Method	mg/l	0.22	0.24	0.178	0.148	0.114	0.175

ANNUAL AVERAGE READING OF WATER QUALITY DATA UNDER NWMP, MIZORAM FOR THE YEAR 2015

Sl. No	Parameter	Method Used	Unit	Tlawng River, Sairang	Serlui Stream, Reiek Kai, near P.H.E Water Treatment Plant	Vaipuanpho Stream, Reiek Kai	Tuikual Stream, Reiek Kai	Sakhisih Stream, Mission Vengthlang	Tuirial River, Upstream Near Sumsuih Village
				3709	3710	3711	3712	3713	3714
1	D.O	Iodometric Method	mg/l	6.45	6	6.83	5.95	5.9	7
2	pH	Float Method	-	7.41	7.41	7.62	7.42	7.31	7.51
3	Conductivity	Conductometric Method	us/cm	99.08	211	60.08	170.66	195.83	57.8
4	BOD	Dilution Method	mg/l	1.21	1.4	1.508	1.25	1.175	0.975
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	mg/l	0.072	0.083	0.064	0.08	0.083	0.088
6	Faecal Coliform	Multiple Tube Dilution Method	MPN	3.6	6.35	15	93	35	
7	Total Coliform	Multiple Tube Dilution Method	MPN	15	31	1100	2400	2400	-
8	Turbidity	Turbimetric Method	NTU	-	-	-	-	-	-
9	Alkalinity	Visual Titration	mg/l	50	51.66	36.38	56.31	41.041	32.31
10	Chloride	Argentometric titration	mg/l	8.34	14.73	6.34	6.85	24	8.8
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.47	0.0561	0.532	0.63	0.702	0.301
12	Total hardness	Complexometric Titration	mg/l	48.84	61.66	32.83	51.33	64.66	48.9
13	Calcium	Complexometric Titration	mg/l	11.33	15.6	7.66	12.55	17	12.12
14	Magnesium	Calculation Method	mg/l	4.98	5.39	3.358	4.65	5.28	4.46
15	Sodium	Flame Photometric method	mg/l	40.45	33.66	26.125	33.7	65.83	25.8
16	TDS	Gravimetric Method	mg/l	146.66	115.83	115.83	114.16	115.83	137
17	TSS	-----do-----	mg/l	73.33	51.66	55	51.66	50.83	65
18	Phosphate	Calorimetric Method	mg/l	0.139	0.13	0.0839	0.227	0.193	0.305

ANNUAL AVERAGE READING OF WATER QUALITY DATA UNDER NWMP, MIZORAM FOR THE YEAR 2015

Sl. No	Parameter	Method Used	Unit	Tuirial River, Airfield, before Dumping Ground	Damdiai Stream, Airfield, near Dumping Ground	Tuirial River, Airfield, after Dumping Ground	Chite Stream, Armed Veng, near Mini Sports Complex	Tuirini River, Seling	Tuivawl River, Near Tuivawl Bridge, Keifang
				3715	3716	3717	3718	3719	3720
1	D.O	Iodometric Method	mg/l	6.38	5.94	5.96	5.31	8.05	7.6
2	pH	Float Method	-	7.52	7.51	7.58	7.55	7.51	7.45
3	Conductivity	Conductometric Method	us/cm	130.41	140.25	131.91	329.58	140.1	146.8
4	BOD	Dilution Method	mg/l	1.241	1.16	1.16	1.15	1.7	1.57
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	mg/l	0.101	0.101	0.115	0.13	0.07	0.06
6	Faecal Coliform	Multiple Tube Dilution Method	MPN	11	15	28	28	-	-
7	Total Coliform	Multiple Tube Dilution Method	MPN	460	120	460	2400	-	-
8	Turbidity	Turbimetric Method	NTU	-	-	-	-	-	-
9	Alkalinity	Visual Titration	mg/l	64.4	56.36	65.88	133.96	49.49	54.12
10	Chloride	Argentometric titration	mg/l	14.475	8.83	13.36	58.7	7.83	10.64
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.633	0.61	0.628	0.52	0.321	0.34
12	Total hardness	Complexometric Titration	mg/l	65.16	61.33	60.33	140.66	50.2	52.8
13	Calcium	Complexometric Titration	mg/l	17.46	16.2	16.2	41.8	11.84	12.8
14	Magnesium	Calculation Method	mg/l	5.51	4.95	5.19	8.62	4.89	4.89
15	Sodium	Flame Photometric method	mg/l	37.66	42.7	41.29	61.29	25.78	25.6
16	TDS	Gravimetric Method	mg/l	146.66	120	170	139.16	141	138
17	TSS	-----do-----	mg/l	73.33	56.66	83.3	66.66	62	70
18	Phosphate	Calorimetric Method	mg/l	0.153	0.188	0.16	0.25	0.09	0.08

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Sl. No	Parameter	Method Used	Unit	Lawibual Stream, Lawibual village	Lawibuai Fishpond	Tamdil Lake, Saitual	Challui, Lengpui	Lungli Tuikhur, Republic Veng	Ramhlun 'S' Tuikhur, Near Community Hall
				3721	3722	3723	3724	3725	3726
1	D.O	Iodometric Method	mg/l	5.29	5.11	7.25	6.74	6.48	5.55
2	pH	Float Method	-	7.57	7.31	7.43	7.54	7.23	7.52
3	Conductivity	Conductometric Method	us/cm	237.41	173.9	121.25	94.83	179.66	223.16
4	BOD	Dilution Method	mg/l	1.21	1.118	1.59	1.2	1.36	1.12
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	mg/l	0.12	0.079	0.05	0.06	0.07	0.09
6	Faecal Coliform	Multiple Tube Dilution Method	MPN	210	-	-	-	28	15
7	Total Coliform	Multiple Tube Dilution Method	MPN	2400	-	-	-	1100	1100
8	Turbidity	Turbimetric Method	NTU	-	-	-	-	-	-
9	Alkalinity	Visual Titration	mg/l	101.15	39.67	43.02	46.59	30.9	33.4
10	Chloride	Argentometric titration	mg/l	52.63	29.63	8.75	8.49	23.75	31.6
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.52	0.394	0.44	0.48	0.38	0.54
12	Total hardness	Complexometric Titration	mg/l	107.66	64.54	50.16	44.86	71.83	75.5
13	Calcium	Complexometric Titration	mg/l	30.9	16.21	12.13	12.26	17.86	20
14	Magnesium	Calculation Method	mg/l	7.35	5.66	4.73	4.51	5.97	6.07
15	Sodium	Flame Photometric method	mg/l	61.62	46.18	26.95	37.33	52.08	54.5
16	TDS	Gravimetric Method	mg/l	123.33	140.9	136.66	123.33	103.33	95
17	TSS	-----do-----	mg/l	60	62.72	65.83	58.33	48.33	41.66
18	Phosphate	Calorimetric Method	mg/l	0.16	0.122	0.23	0.16	0.14	0.16

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Sl. No	Parameter	Method Used	Unit	Tuithiang Veng Tuikhur	Khurpui Tuikhur, S.Hlimen	Bawngkawn Hand Pump near HB Petrol Pump	Selesih Hand Pump	Tuikual Hand Pump	Chaltlang hand pump near Remi Tyre Works
				3727	3728	3729	3730	3731	3732
1	D.O	Iodometric Method	mg/l	5.4	5.67	2.63	2.73	3.24	2.25
2	pH	Float Method	-	7.28	7.09	7.03	6.66	6.79	6.99
3	Conductivity	Conductometric Method	us/cm	185.41	131.41	269.5	264.41	272.66	297.5
4	BOD	Dilution Method	mg/l	1.13	1.19	0.75	0.75	0.87	0.66
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	mg/l	0.06	0.07	0.07	0.08	0.11	0.07
6	Faecal Coliform	Multiple Tube Dilution Method	MPN	15	7.3	0	0	0	0
7	Total Coliform	Multiple Tube Dilution Method	MPN	1100	1100	7	7.3	6	7.2
8	Turbidity	Turbimetric Method	NTU	-	-	-	-	-	-
9	Alkalinity	Visual Titration	mg/l	24.6	37.49	114.51	52.96	108.78	98.12
10	Chloride	Argentometric titration	mg/l	30.67	14.25	37.35	38.25	64.55	34.4
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.36	0.3	0.78	0.73	0.67	0.53
12	Total hardness	Complexometric Titration	mg/l	79.33	43.66	125.33	94.66	158.66	130.33
13	Calcium	Complexometric Titration	mg/l	21	10.6	38.86	24.46	47.15	38.86
14	Magnesium	Calculation Method	mg/l	6.4	4.07	7.92	6.79	9.76	7.94
15	Sodium	Flame Photometric method	mg/l	58.16	36.83	29.7	43.2	55.87	34.41
16	TDS	Gravimetric Method	mg/l	90.83	100.83	113.33	115.83	105.83	108.33
17	TSS	-----do-----	mg/l	43.33	45	50.83	54.16	48.33	47.5
18	Phosphate	Calorimetric Method	mg/l	0.11	0.12	0.31	0.23	0.166	0.15

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Sl. No	Parameter	Method Used	Unit	S.Hlimen Hand Pump	Tlawng River, Upstream, Zobawk, Lunglei	Mat River	Tlawng River, Pialthleng, Zotlang, Lunglei	Vaitui Tuikhur, Theiriat, Lunglei	Sap Tuikhur, Serkawn
				3733	3734	3735	3736	3737	3738
1	D.O	Iodometric Method	mg/l	2.57	7.29	7.44	7.61	7.24	6.65
2	pH	Float Method	-	6.93	7.34	7.56	7.57	7.04	7.21
3	Conductivity	Conductometric Method	us/cm	132	81.1	83.1	94	62.8	83.8
4	BOD	Dilution Method	mg/l	0.7	1.34	1.59	1.53	1.28	1.24
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	mg/l	0.06	0.074	0.07	0.07	0.067	0.07
6	Faecal Coliform	Multiple Tube Dilution Method	MPN	-	-	-	-	-	-
7	Total Coliform	Multiple Tube Dilution Method	MPN	75	-	-	-	-	-
8	Turbidity	Turbimetric Method	NTU	-	-	-	-	-	-
9	Alkalinity	Visual Titration	mg/l	50.57	39.21	32.79	37.59	26.96	25.81
10	Chloride	Argentometric titration	mg/l	20.35	8.87	7.17	9.12	7.52	10.91
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.25	0.44	0.43	0.313	0.33	0.39
12	Total hardness	Complexometric Titration	mg/l	73.66	45.4	43.6	42.6	42.4	45.2
13	Calcium	Complexometric Titration	mg/l	19.06	10.84	10.4	9.85	10.6	10.92
14	Magnesium	Calculation Method	mg/l	6.2	4.49	4.19	3.93	4.09	4.68
15	Sodium	Flame Photometric method	mg/l	30.5	18.65	19.7	28.55	17.87	16.25
16	TDS	Gravimetric Method	mg/l	111.66	137	140	134	94	105
17	TSS	-----do-----	mg/l	51.66	65	64	63	39	47
18	Phosphate	Calorimetric Method	mg/l	0.087	0.12	0.18	0.12	0.09	0.106

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Sl. No	Parameter	Method Used	Unit	Zobawk Veng Hand Pump, Lunglei	Saikah Stream, Lawngtlai	Khurpui Tuikhur, Lawngtlai	Chanmari Hand Pump, Lawngtlai	P.H.E Reservoir, Helipad, New Saiha	Chhimtuipui River, Kawlchaw
				3739	3740	3741	3742	3743	3744
1	D.O	Iodometric Method	mg/l	2.9	6.56	7.69	3.24	7.01	7.18
2	pH	Float Method	-	7	7.06	7.3	6.7	7.8	7.53
3	Conductivity	Conductometric Method	us/cm	163.2	93.9	246	219.4	57.6	129
4	BOD	Dilution Method	mg/l	0.78	1.38	1.56	0.96	1.11	1.36
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	mg/l	0.09	0.06	0.06	0.076	0.07	0.06
6	Faecal Coliform	Multiple Tube Dilution Method	MPN	-	-	-	-	-	-
7	Total Coliform	Multiple Tube Dilution Method	MPN	-	-	-	-	-	-
8	Turbidity	Turbimetric Method	NTU	-	-	-	-	-	-
9	Alkalinity	Visual Titration	mg/l	127.69	17.03	34.27	127.3	25.01	50.9
10	Chloride	Argentometric titration	mg/l	9.08	6.83	29.02	11.44	5.88	7.31
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.46	0.29	0.28	0.38	0.26	0.31
12	Total hardness	Complexometric Titration	mg/l	107	23.4	82.8	105.4	26	55.1
13	Calcium	Complexometric Titration	mg/l	30.88	5.52	22.8	29.82	6.63	14.55
14	Magnesium	Calculation Method	mg/l	7.12	2.27	6.17	7.34	2.06	4.92
15	Sodium	Flame Photometric method	mg/l	27.8	19.55	26.55	28.5	25.15	19.45
16	TDS	Gravimetric Method	mg/l	103	117	91	106	85	148
17	TSS	-----do-----	mg/l	55	49	37	44	39	72
18	Phosphate	Calorimetric Method	mg/l	0.13	0.09	0.14	14.99	0.07	0.16

ANNUAL AVERAGE READING OF WATER QUALITY DATA UNDER NWMP, MIZORAM FOR THE YEAR 2015

Sl. No	Parameter	Method Used	Unit	Chhochhopa Tuikhur, Saiha	Tuikum River, Serchhip	Sesah Stream, Serchhip	Project veng Hand Pump, Serchhip	Lahmun River, Phaizau, Mamit	Teirei River, Near Bawngva Village, Mamit
				3745	3746	3747	3748	3749	3750
1	D.O	Iodometric Method	m	6.61	7.34	7.86	7.81	6.63	7.31
2	pH	Float Method	m/s	7.59	7.56	7.45	7.4	7.22	7.14
3	Conductivity	Conductometric Method	^o C	203.1	70	120.5	77.8	136.33	124.6
4	BOD	Dilution Method	mg/l	0.96	1.06	1.22	1.36	1.05	1.12
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	-	0.14	0.05	0.06	0.05	0.09	0.07
6	Faecal Coliform	Multiple Tube Dilution Method	µs/cm	-	-	-	-	-	-
7	Total Coliform	Multiple Tube Dilution Method	mg/l	-	-	-	-	-	-
8	Turbidity	Turbimetric Method	mg/l	-	-	-	-	-	-
9	Alkalinity	Visual Titration	mg/l	32.89	27.6	45.47	35.74	66.7	45.43
10	Chloride	Argentometric titration	NTU	22.13	7.61	7.63	7.01	11.12	8.6
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.96	0.42	0.33	0.35	0.29	0.25
12	Total hardness	Complexometric Titration	mg/l	72.8	32	48.5	41.4	75.22	50.4
13	Calcium	Complexometric Titration	mg/l	15.96	7.52	12.4	10.72	27.28	11.97
14	Magnesium	Calculation Method	mg/l	5.82	3.19	4.14	3.44	4.73	4.31
15	Sodium	Flame Photometric method	mg/l	43.7	24.4	24.5	20.7	32.66	31.15
16	TDS	Gravimetric Method	mg/l	95	130	120	105	104.44	118
17	TSS	-----do-----	mg/l	39	62	55	44	52.22	54
18	Phosphate	Calorimetric Method	mg/l	0.31	0.1	0.09	0.17	0.114	0.11

ANNUAL AVERAGE READING OF WATER QUALITY DATA UNDER NWMP, MIZORAM FOR THE YEAR 2015

Sl. No	Parameter	Method Used	Unit	Tut River, Near Dapchhuah Village	Tuichhuahe n Stream, Kolasib	Hmar veng Tuikhur, Kolasib	Tlawng River, Downstream, Bairabi	Pond, Near Thermal Power Plant, Bairabi	Tiau River, Champhai
				3751	3752	3753	3754	3755	3756
1	D.O	Iodometric Method	mg/l	7.08	6.06	7.15	5.76	4.37	7.61
2	pH	Float Method	-	7.17	7.33	6.92	7.34	7.85	8.33
3	Conductivity	Conductometric Method	us/cm	135.33	131.7	114.5	129.9	149.9	237
4	BOD	Dilution Method	mg/l	1.08	1.27	1.47	1.09	1.1	3.2
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	mg/l	0.07	0.06	0.05	0.08	0.07	0.06
6	Faecal Coliform	Multiple Tube Dilution Method	MPN	-	-	-	-	-	-
7	Total Coliform	Multiple Tube Dilution Method	MPN	-	-	-	-	-	-
8	Turbidity	Turbimetric Method	NTU	-	-	-	-	-	-
9	Alkalinity	Visual Titration	mg/l	51.52	54.51	24.24	49.48	62.23	79.17
10	Chloride	Argentometric titration	mg/l	9.35	8.86	7.99	7.6	12.84	16.21
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.22	0.35	0.31	0.66	0.47	0.41
12	Total hardness	Complexometric Titration	mg/l	56.11	55.8	41.4	53.2	67.6	65.2
13	Calcium	Complexometric Titration	mg/l	14.96	13.52	9.6	13.3	16.76	25.68
14	Magnesium	Calculation Method	mg/l	4.56	4.75	4.15	5.2	5.43	5.28
15	Sodium	Flame Photometric method	mg/l	30.35	28.9	24.6	35.2	47	48.65
16	TDS	Gravimetric Method	mg/l	117.77	119	102	145	119	147
17	TSS	-----do-----	mg/l	54.44	59	46		53	69
18	Phosphate	Calorimetric Method	mg/l	0.1	0.101	0.1	0.22	0.15	0.17

ANNUAL AVERAGE READING OF WATER QUALITY DATA UNDER NWMP, MIZORAM FOR THE YEAR 2015

Sl. No	Parameter	Method Used	Unit	Tuipui River, Champhai	Bethel Veng Hand-pump, Champhai
				3757	3758
1	D.O	Iodometric Method	mg/l	6.9	1.93
2	pH	Float Method	-	8.06	7.59
3	Conductivity	Conductometric Method	us/cm	116.7	240.8
4	BOD	Dilution Method	mg/l	2.38	0.77
5	Nitrogen- Nitrite (N-NO ₂)	Calorimetric Method	mg/l	0.09	0.068
6	Faecal Coliform	Multiple Tube Dilution Method	MPN	-	-
7	Total Coliform	Multiple Tube Dilution Method	MPN	-	-
8	Turbidity	Turbimetric Method	NTU	-	-
9	Alkalinity	Visual Titration	mg/l	43.26	134.1
10	Chloride	Argentometric titration	mg/l	16.32	10.61
11	Nitrogen Ammonia (N-NH ₃)	Calorimetric Method	mg/l	0.69	0.32
12	Total hardness	Complexometric Titration	mg/l	42.3	119.8
13	Calcium	Complexometric Titration	mg/l	10.72	36.12
14	Magnesium	Calculation Method	mg/l	3.57	7.65
15	Sodium	Flame Photometric method	mg/l	38.5	59.35
16	TDS	Gravimetric Method	mg/l	149	107
17	TSS	-----do-----	mg/l	68	47
18	Phosphate	Calorimetric Method	mg/l	0.19	0.11

(Source: Mizoram Pollution Control Board)