

MEGHA TECHNICAL & ENGINEERS (PVT.) LIMITED

Ref: MTEPL/EHS/LUM/2022-23/20

Dated: 23/01/2023

To,

The Member Secretary,
Meghalaya State Pollution Control Board
'ARDEN', Lumpyngngad,
Shillong, Meghalaya – 793014

Subject : Submission of Environmental Monitoring Report for the month of Dec., 2022.

Reference : MPCB/CON-68(Pt-I)/2006/Pt-I/2022-2023/59, Dtd: Shillong the 29th August, 2022.

Dear Sir,

This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality monitoring including meteorological data, Stack Emission, Fugitive Emission, Surface waste monitoring reports of **M/s Megha Technical & Engineers Pvt. Ltd.** for the month of **Dec., 2022.**

This is for your kind information, record and kindly acknowledge receipt of the same.

Thanking You,

Yours truly,

For **MEGHA TECHNICAL & ENGINEERS PVT. LIMITED**



Laxmaiah Munjala
Unit Head

Enclosed: a/a



MEGHA TECHNICAL & ENGINEERS PVT. LTD

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Wind Direction (deg)	Wind Speed- (m/s)	Manual Rain (mm)
01-12-2022	761.7	95	19.0	319	0	0
02-12-2022	761.5	95.6	19.4	253	0	0
03-12-2022	761.4	95.6	20.0	255	0	0
04-12-2022	761.4	95.5	18.7	250	0	0
05-12-2022	761.9	95.5	23.4	251	0	0
06-12-2022	762.5	95.5	20.8	250	0	0
07-12-2022	763	95.1	21.4	261	0	0
08-12-2022	763.7	81.2	17.2	123	0	0
09-12-2022	764	63.2	21.4	212	0	0
10-12-2022	763.9	59.5	22.2	207	0	0
11-12-2022	763.2	64.2	23.3	180	0.3	0
12-12-2022	762.5	64.5	23.1	212	2	0
13-12-2022	762	63.1	24.1	207	1.8	0
14-12-2022	761.5	61.2	24.1	223	1.9	0
15-12-2022	761.5	65.3	23.1	249	0.5	0
16-12-2022	761.5	67.2	23.0	213	0	0
17-12-2022	761.7	83.2	19.0	359	0	0
18-12-2022	761.9	88.1	17.1	258	0	0
19-12-2022	762.2	91.1	16.3	253	0	0
20-12-2022	762.4	93.4	15.0	250	0	0
21-12-2022	762.4	93.2	15.4	357	0	0
22-12-2022	762.4	94.3	19.7	252	0	0
23-12-2022	762.5	94.0	14.3	274	0	0
24-12-2022	762.4	95.0	14.3	123	0	0
25-12-2022	763.2	95.5	22.2	60	1.07	0
26-12-2022	762.5	95.5	23.3	90	0.72	0
27-12-2022	762	95.5	23.1	180	1.28	7.7
28-12-2022	761.5	95.1	24.1	212	0	0
29-12-2022	761.5	81.2	20.0	207	0	0
30-12-2022	761.5	83.2	18.7	253	0	0
31-12-2022	761.7	88.1	18.6	250	0	0
					Total rain of this month	7.7

	MEGHA TECHNICAL & ENGINEERS PVT. LTD Lumshnong, Meghalaya		Reference No.	MTEPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
AMBIENT AIR QUALITY MONITORING REPORT			Date of Rev.	01.12.2020
Reference No.: MTEPL/ENV/AAQM/MONTHLY/2022-23/09			Month: December'22	
Location of Sampling: Near Pump House		GPS Coordinate: 25°10'42"N 92°23'32"E 919 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
01.12.2022	49.15	32.01	10.35	15.41
03.12.2022	47.88	30.40	13.29	13.60
06.12.2022	48.27	31.76	10.85	14.88
09.12.2022	52.74	28.29	10.63	11.70
12.12.2022	47.90	27.38	9.90	14.63
14.12.2022	49.65	31.84	11.65	15.36
16.12.2022	50.10	30.25	9.17	10.85
19.12.2022	47.40	29.69	12.65	12.94
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by	 Checked by		 Verified By	

	MEGHA TECHNICAL & ENGINEERS PVT. LTD Lumshnong, Meghalaya		Reference No.	MTEPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
AMBIENT AIR QUALITY MONITORING REPORT			Date of Rev.	01.12.2020
Reference No.: MTEPL/ENV/AAQM/MONTHLY/2022-23/09			Month: December'22	
Location of Sampling: Vishwakarma Colony		GPS Coordinate: 25°10'46"N 92°23'17"E 552 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
01.12.2022	46.19	28.42	12.93	15.36
03.12.2022	48.28	33.46	10.65	12.61
06.12.2022	47.90	29.38	12.90	17.71
09.12.2022	49.59	28.42	11.65	14.01
12.12.2022	47.47	30.48	13.97	15.74
14.12.2022	50.54	31.74	10.90	17.00
16.12.2022	50.90	30.09	9.75	13.69
19.12.2022	48.50	29.34	13.33	14.94
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by	 Checked by	 Verified By		

	MEGHA TECHNICAL & ENGINEERS PVT. LTD Lumshnong, Meghalaya		Reference No.	MTEPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
AMBIENT AIR QUALITY MONITORING REPORT			Date of Rev.	01.12.2020
Reference No.: MTEPL/ENV/AAQM/MONTHLY/2022-23/09			Month: December'22	
Location of Sampling: Near Star Club		GPS Coordinate: 25°10'36"N 92°23'16"E 928 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
01.12.2022	35.48	22.48	7.07	15.18
03.12.2022	42.75	24.34	8.43	13.34
06.12.2022	38.55	20.09	9.85	15.09
09.12.2022	35.05	22.48	8.89	13.71
12.12.2022	41.80	21.34	8.00	15.11
14.12.2022	41.44	24.18	8.15	12.61
16.12.2022	38.58	23.29	9.92	13.10
19.12.2022	36.54	22.99	8.10	12.92
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by	 Checked by		 Verified By	

	MEGHA TECHNICAL & ENGINEERS PVT. LTD Lumshnong, Meghalaya		Document No.	MTEPL/EHS/Env/F-04
			Date of Issued	01-05-2019
	FUJITIVE EMISSION MONITORING REPORT		Revision No.	2
			Revision Date	01-01-2021
Ref: MTEPL/ENV/FUGITIVE/MONTHLY/2022-23/009				
Month - December 2022				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
05.12.2022	Cement Packing Plant	1879	5000	
 Analyzed By  Checked by  Verified By				

	MEGHA TECHNICAL & ENGINEERS PVT. LTD Lumshnong, Meghalaya										Reference No.	MTEPL/EHS/F-04
											Issue No.	1
	WATER TESTING REPORT										Date of Issue:	24.08.2013
											Revision No.	3
										Date of Rev.	01.06.2019	

Reference No.: MTEPL/ENV/WATER/MONTHLY/2022-23/09												Date of sample collection: - 12.12.2022	
Surface Water Analysis Results Month: December-2022												Date of Analysis: 12.12.2022 to 15.12.2022	

S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Seshysmpa	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms as per IS 2296
			Up Stream	Down Stream	Up Stream	Down Stream	Down Stream		Seasonal Spring / Seasonal Nallah				
1	pH	-	7.5	7.4	7.3	7.5	7.8	7.1	7.7	7.8	Water Source not found		6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless			10
3	Odour	-	Unobjectionable										Unobjectionable
4	Chloride	mg/L	42.0	42.9	38.0	38.8	40.0	23.5	21.7	25.4			250
5	Total Hardness as CaCO ₃	mg/L	67.8	70.4	74.1	74.8	78.9	42.6	68.7	38.1			300
6	Suspended Solids	mg/L	9.0	8.7	4.7	6.4	4.2	6.0	6.0	4.4			-
7	Total Dissolve Solids	mg/L	235	237	182	183	195	95.0	157.4	73.4			500
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND			2.0
9	Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND	ND	ND			-
10	Temperature	° C	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0			-
11	Conductivity	μS/cm	359	361	280	284	297	140	220	115	-		
12	Flow	L / Min	338.8	395.6	72.3	135.5	212.5	57954.5	-	-	-		

 Analyzed by	 Checked by	 Verified by
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