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Dated: 06/02/24

HSPCB/Misc Cell/2024/ 1949

To

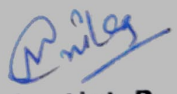
Sr. Environment Engineer,
IT Cell, HSPCB.

Subject: Report for Special Monitoring of Ambient Air and Noise levels during Deepawali Festival 2023— Reg. .

Kindly refer on the subject cited above

With reference to the above cited subject, it is informed that in as per directions passed by Hon'ble Supreme Court WPC no. 728/2015 titled as Arjun Gopal Vs. Union of India & Ors. and CPCB letter no. 5292-5327 dated 17.10.2023 in which directions were given to SPCB to conduct the short term monitoring of ambient air quality and Noise during the Deepawali Festival, 2023 in their cities for 15 days for different parameters. In compliance of direction, HSPCB has done monitoring and results has been received from all regional Officers. The results of Special Monitoring of Ambient Air Quality data and Noise during Deepawali Festival 2023 carried out in 22 districts of Haryana from 05.11.2023 to 19.11.2023 are enclosed herewith.

In view of above, you are hereby requested to upload the results of Special Monitoring of Ambient Air Quality data and Noise during Deepawali Festival 2023 on the website of the board.
D.A as above/-


Scientist-B
For Chairman

REPORT ON
Monitoring of Ambient Air and Noise During Deepawali
Festival in the State of Haryana

Duration

05 Nov 2023 to 19 Nov 2023



HSPCB

HARYANA STATE POLLUTION CONTROL BOARD, C-11

SECTOR -6, PANCHKULA

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MONITORING OF AMBIENT AIR AND NOISE MONITORING DURING DEEPAWALI SEASON IN THE STATE OF HARYANA

Haryana State Pollution Control Board has organized a monitoring program to assess and identify the pollution levels in terms of Noise and Ambient Air quality in the state of Haryana. The program is chartered to gauge the pollution in the districts of Haryana during the Deepawali season especially contaminated due to use of fire crackers and increased vehicular movement. The Hon'ble Supreme Court of India vide order dated 23.10.2018 passed in WP(Civil) No. 728 of 2015 directed the Central Pollution Control Board (CPCB) and respective State Pollution Control Boards / Pollution Control Committees (SPCBs/PCCs) of the States and Union Territories to carry out short-term monitoring in their cities for 15 days, for proposed parameters namely, Aluminum, Barium, Iron apart from the regulatory parameters against the short-term Ambient Air Quality Criteria values (AAQCVs) as proposed by CPCB.

MONITORING PLAN

With the persuasion of CPCB direction (reference letter no. 5292-5327 dated 17.10.23), Haryana State Pollution Control Board (HSPCB) has conducted noise level monitoring and ambient air monitoring programme for the Deepawali Festival 2023.

Part-I: Noise Monitoring

The festival of Deepawali was on 12th November, 2023 (Sunday), as per CPCB directions noise monitoring should be conducted on Pre-Deepawali day i.e. 06.11.2023 (Monday), and on Deepawali day 12.11.2023 (Sunday).

Part-II: Ambient air quality monitoring

In addition to the general parameters like PM₁₀, PM_{2.5}, SO₂, NO₂ and metals (Pb, Ni & As in PM₁₀), new parameters (Al, Ba, Fe in PM_{2.5}) are required to be monitored to assess the impact of firecracker bursting during Deepawali festival. For analysis of regulatory parameters like PM₁₀, PM_{2.5}, SO₂, NO₂ and metals (Pb, Ni & As in PM₁₀) the CPCB Guidelines Volume I may be adopted. For Metal/Elements analysis in PM_{2.5} (Al, Ba, Fe) (PTFE Filter), EDXRF is the best option; however, other suitable method (ICP-MS/ICP-AES) may also be adopted.

MONITORING SCHEDULE

According to the Hon'ble Supreme Court and the instructions issued by CPCB, the HSPCB has decided that the Board will collect samples and conduct the noise monitoring on Pre-Deepawali day i.e. 06th November, 2023(Monday) and Deepawali day on 12th November, 2023(Sunday) and ambient air quality monitoring for consecutive 15 days commencing from 05th November, 2023 to 19th November, 2023 (i.e. 7 days before and after Deepawali).

Noise monitoring was conducted by 20 districts of Haryana. 22 district (**at 02 locations per district i.e. residential and commercial**) conducted ambient air monitoring for monitoring of general parameters like PM₁₀, PM_{2.5}, SO₂, NO₂ and for metal analysis (Pb, Ni & As in PM₁₀) and (Al, Ba, Fe, Sr in PM_{2.5}) as per format of CPCB, except 3 districts namely Bhiwani, Rohtak and Sirsa. Bhiwani, Rohtak and Sirsa have conducted ambient air monitoring for general parameters only like PM₁₀, PM_{2.5}, SO₂, NO₂.

RESULTS OF AMBIENT AIR AND NOISE MONITORING
DURING DEEPAWALI SEASON IN
THE STATE OF HARYANA

1. Ambala

- **Latitude & Longitude:** 30.3610° N, 76.8485° E
- **Climate /Meteorology:** The climate of Ambala over most of the year is a pronounced continental in character. It is very hot in summers and markedly cold in winters.
- **Population:** 1,128,350
- **Major Land use:** Major portion of the land is being used for agriculture purpose.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Industrial Area, Ambala cantt	Industrial	30.334667	76.884001
2	Samta Vihar, Ambal Cantt	Residential	30.327623	76.880898
3	Mahesh Nagar Market Ambala	Commercial	30.337898	76.760339

Results of Noise Level Monitoring

Location: Industrial Area, Ambala cantt (Latitude:-30.334667 Longitude :-76.884001)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
18:00 to 19:00 Hr	66.2	89.8	71.3	62.6	83.1	69.8
19:00 to 20:00 Hr	65.5	75.7	67.9	61.1	99.0	80.1
20:00 to 21:00 Hr	68.4	91.0	73.6	67.2	103.6	73.9
21:00 to 22:00 Hr	62.5	94.1	76.1	68.0	90.1	71.4
22:00 to 23:00 Hr	51.8	84.5	59.0	60.9	95.1	72.6
23:00 to 24:00 Hr	32.8	104.2	63.5	44.1	104.0	75.2
Location: Samta Vihar, Ambal Cantt Residential (Latitude:-30.327623 Longitude :-76.880898)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
18:00 to 19:00 Hr	42.2	78.6	55.0	44.4	83.4	61.2
19:00 to 20:00 Hr	44.5	72.6	52.2	47.6	115.3	84.9
20:00 to 21:00 Hr	43.4	91.7	64.9	50.5	84.7	82.8
21:00 to 22:00 Hr	42.2	78.5	62.3	61.1	105.7	79.0
22:00 to 23:00 Hr	46	85.6	66.6	49.3	91.4	64.5
23:00 to 24:00 Hr	42.0	73.4	54.6	46.9	92.3	70.6
Location: Mahesh Nagar Market, Ambala, Commercial (Latitude:-30.337898 Longitude :-76.760339)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		

Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
18:00 to 19:00 Hr	60.8	93.6	72.5	60.1	111.1	88.6
19:00 to 20:00 Hr	63.5	95.1	78.0	63.0	99.2	79.0
20:00 to 21:00 Hr	62.7	87.8	72.8	64.0	99.0	78.7
21:00 to 22:00 Hr	60.2	97.3	78.8	63.4	106.4	83.1
22:00 to 23:00 Hr	56.0	84.0	71.4	62.4	105.3	79.0
23:00 to 24:00 Hr	61.1	91.6	73.9	62.0	99.4	83.7

Results of Ambient Air Quality Monitoring

Name of the location	HSPCB Office Building, Ambala City										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Al ($\mu\text{g}/\text{m}^3$)	Ba ($\mu\text{g}/\text{m}^3$)	Fe ($\mu\text{g}/\text{m}^3$)	Sr ($\mu\text{g}/\text{m}^3$)
05.11.2023	187.34	33.67	3.97	7.01	BLQ	BLQ	BLQ	0.05	BLQ	0.45	BLQ
06.11.2023	236.02	42.09	3.77	7.19	BLQ	1.16	BLQ	BLQ	0.31	BLQ	BLQ
07.11.2023	207.02	37.88	4.22	7.12	BLQ	BLQ	BLQ	0.08	BLQ	0.89	BLQ
08.11.2023	192.57	37.88	4.19	7.01	BLQ	BLQ	BLQ	BLQ	BLQ	0.08	BLQ
09.11.2023	211.68	42.09	3.99	7.12	BLQ	BLQ	BLQ	BLQ	0.77	BLQ	BLQ
10.11.2023	207.65	50.51	4.26	7.49	BLQ	1.27	1.39	BLQ	0.66	BLQ	BLQ
11.11.2023	235.84	58.92	4.58	8.65	BLQ	BLQ	BLQ	BLQ	BLQ	0.08	BLQ
12.11.2023	248.33	58.92	5	9.02	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
13.11.2023	201.37	42.09	4.94	8.36	BLQ	BLQ	BLQ	0.07	BLQ	0.21	BLQ
14.11.2023	181.97	21.04	4.56	7.85	BLQ	BLQ	BLQ	BLQ	BLQ	0.08	BLQ
15.11.2023	166.07	21.04	4.29	7.05	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
16.11.2023	163.73	25.25	3.92	6.35	BLQ	BLQ	BLQ	BLQ	BLQ	0.42	BLQ
17.11.2023	164.58	29.46	3.88	5.7	BLQ	BLQ	BLQ	BLQ	BLQ	0.28	BLQ
18.11.2023	141.29	21.04	3.97	6.06	BLQ	BLQ	BLQ	BLQ	BLQ	0.09	BLQ
19.11.2023	187.34	33.67	3.71	6.10	BLQ	BLQ	BLQ	0.05	0.70	0.11	BLQ

2. Bhiwani

- **Latitude & Longitude** : 28.816299, 76.376284
- **Climate /Meteorology** : Semiarid climate
- **Population** : 196,057
- **Major Land use** : Agriculture

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	SCF-32, Sector-13, HSVP, Bhiwani,	Commercial	28.816299	76.376284
2	Sector-13, HUDA, Bhiwani.	Residential	28.8181201	76.1346243

Results of Noise Level Monitoring

Time Duration	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
18:00 to 19:00 Hr	57.2	61.5	59.35	60.3	64.5	62.4
19:00 to 20:00 Hr	56.1	62.2	59.15	60.1	64.2	62.15
20:00 to 21:00 Hr	55.7	61.9	58.8	58.5	62.2	60.35
21:00 to 22:00 Hr	54.5	60.1	57.3	57.5	61.1	59.3
22:00 to 23:00 Hr	52.4	58.1	55.25	55.2	60.2	57.7
23:00 to 24:00 Hr	51.2	55.2	53.2	53.1	69.2	61.15

Time Duration	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
18:00 to 19:00 Hr	54.2	57	55.6	64.2	66.3	65.25
19:00 to 20:00 Hr	55	55.5	55.25	67.5	68.4	67.95
20:00 to 21:00 Hr	53	54.4	53.7	69.2	70.2	69.7
21:00 to 22:00 Hr	52.5	53.1	52.8	61.5	73.3	67.4
22:00 to 23:00 Hr	51.2	54.5	52.85	65.6	78.1	71.85
23:00 to 24:00 Hr	50.1	52.5	51.3	66	76.2	71.1

3.Charkhi Dadri

- **Latitude & Longitude** : 28.5921° N, 76.2653° E
- **Climate /Meteorology** : Located at an elevation of 217.53 meters (713.68 feet) above sea level, Charkhi Dadri has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 30.25°C (86.45°F) and it is 4.28% higher than India's averages. Charkhi Dadri typically receives about 14.14 millimeters (0.56 inches) of precipitation and has 18.73 rainy days (5.13% of the time) annually.
- **Population** : 502276
- **Major Land use** : Agriculture

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Partap hospital Charkhi Dadri	Residential	28.595294	76.256696
2	Regional office Building Charkhi Dadri	Commercial	28.594141	76.26425

Results of Noise Level Monitoring

Location: Pratap Hospital Charkhi Dadri, Residential (Latitude- 28.595294 Longitude- 76.256696)	Pre Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time Duration						
18:00 Hrs to 19:00 Hrs	25.7	81.2	58.2	29.3	85.3	66.5
19:00 Hrs to 20:00 Hrs	29.2	80.3	55.8	36.2	92.8	75.3
20:00 Hrs to 21:00 Hrs	20.3	80.1	57.5	44.2	87.5	72.4
21:00 Hrs to 22:00 Hrs	36.2	89.6	62.3	42.8	82.2	70.1
22:00 Hrs to 23:00 Hrs	22.4	79.3	51.9	42.5	85.7	65.3
23:00 Hrs to 24:00 Hrs	30.7	76.5	52.1	43.1	92.1	69.6
			56.3			69.86

Location: Regional Office, Charkhi Dadri, commercial (Latitude- 28.594141 Longitude- 76.26425)	Pre Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time Duration						
18:00 Hrs to 19:00 Hrs	27.3	75.9	57.2	30.5	84.7	66.5
19:00 Hrs to 20:00 Hrs	24.2	79.8	56.3	32.9	82.3	65.2
20:00 Hrs to 21:00 Hrs	24.3	74.2	55.3	32.1	91.8	74.1
21:00 Hrs to 22:00 Hrs	33.6	80.2	55.8	27.4	88.6	73.8
22:00 Hrs to 23:00 Hrs	19.1	67.9	42.8	31.4	93.2	73.8
23:00 Hrs to 24:00 Hrs	20.8	81.5	51.4	30.1	95.5	76.3
			53.13			71.61

Results of Ambient Air Quality Monitoring

Name of the location	Partap Hospital Charkhi Dadri										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	289.58	119.86	10.0875	11.97754 065	BLQ	2.36	BLQ	0.07	0.05	0.48	BLQ
06.11.2023	301.39	159.58	20.378787 88	13.34411 0569	BLQ	1.25	BLQ	BLQ	0.34	BLQ	BLQ
07.11.2023	303.89	152.50	23.333712 12	13.26371 951	BLQ	BLQ	BLQ	0.09	BLQ	1.01	BLQ
08.11.2023	301.81	133.75	16.438888 89	13.22352 642	BLQ	BLQ	BLQ	0.06	BLQ	0.12	BLQ
09.11.2023	223.75	112.57	10.902651 52	11.41483 74	BLQ	BLQ	BLQ	BLQ	0.77	BLQ	BLQ
10.11.2023	90.97	55.14	7.7097474 7	9.565955 285	BLQ	BLQ	BLQ	BLQ	0.74	BLQ	BLQ
11.11.2023	99.79	58.26	10.0875	9.646341 463	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
12.11.2023	108.61	63.89	22.654419 19	10.45020 2325	BLQ	BLQ	BLQ	BLQ	BLQ	0.15	BLQ
13.11.2023	141.39	86.53	12.091414 14	9.807113 821	BLQ	2.78	BLQ	0.08	BLQ	0.25	BLQ
14.11.2023	288.06	170.90	10.563005 05	10.24923 78	BLQ	BLQ	BLQ	0.05	BLQ	0.09	BLQ
15.11.2023	297.64	177.92	10.0875	9.646341 463	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
16.11.2023	203.40	122.36	10.834722 22	11.41483 74	-	-	-	-	-	-	-
17.11.2023	251.18	155.29	10.596969 7	11.69618 902	-	-	-	-	-	-	-
18.11.2023	177.78	95.14	10.868686 87	9.485569 106	-	-	-	-	-	-	-
19.11.2023	208.26	122.99	12.431060 61	9.726727 642	-	-	-	-	-	-	-

Name of the location	Regional Office HSPCB Charkhi Dadri										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	291.53	118.89	9.27234 8485	11.012 9065	BLQ	1.11	BLQ	BLQ	BLQ	0.47	BLQ
06.11.2023	300.69	155.97	20.0391 441	12.901 98171	0.10	1.81	BLQ	BLQ	0.30	BLQ	BLQ
07.11.2023	305.97	151.53	22.4506 3131	13.102 94715	BLQ	BLQ	BLQ	0.08	BLQ	1.04	BLQ
08.11.2023	303.75	113.06	16.7106 606	13.585 26423	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
09.11.2023	217.71	114.44	11.3441 9192	11.213 87195	BLQ	BLQ	BLQ	BLQ	0.72	BLQ	BLQ
10.11.2023	89.51	53.75	8.35530 303	9.0032 52033	BLQ	BLQ	1.25	BLQ	0.69	BLQ	BLQ
11.11.2023	97.99	55.69	9.44217 1717	9.8473 06911	BLQ	BLQ	BLQ	BLQ	BLQ	0.11	BLQ
12.11.2023	106.67	62.08	23.0619 9495	11.615 80285	BLQ	BLQ	BLQ	BLQ	BLQ	0.13	BLQ
13.11.2023	150.83	87.36	11.7178 0303	9.1640 243	0.11	4.03	1.11	0.07	BLQ	0.26	BLQ
14.11.2023	283.06	173.61	11.1064 3939	9.7669 20732	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
15.11.2023	287.92	181.25	10.0045 4545	9.8071 13821	BLQ	BLQ	BLQ	BLQ	BLQ	0.14	BLQ
16.11.2023	202.43	121.53	10.4611 1111	11.053 09959	-	-	-	-	-	-	-
17.11.2023	251.88	158.33	10.4271 4646	11.776 5752	-	-	-	-	-	-	-
18.11.2023	177.36	95.97	11.0724 7475	9.4453 76016	-	-	-	-	-	-	-
19.11.2023	207.99	124.03	11.6838 3838	9.7669 20732	-	-	-	-	-	-	-

4. FARIDABAD

- **Latitude & Longitude:** 28.4089° N, 77.3178° E
- **Climate:** Faridabad has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 30.99°C (87.78°F) and it is 5.02% higher than India's averages. Faridabad typically receives about 18.54 millimeters (0.73 inches) of precipitation and has 23.18 rainy days (6.35% of the time) annually.
- **Population:** 18,09,733
- **Land Use:** The major portion of Land is covered under Agriculture which is 76.71%. The forest cover is 2.77%. Faridabad is accommodating 7.18 % of the total Built up of Haryana Sub region.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Sector-16, Faridabad, Haryana	Residential	28.40792	77.31757
2	Sarvodaya Hospital, Sector-8, Faridabad, Haryana 121006	Commercial	28.367834	77.336007

Results of Noise Level Monitoring

Location Sector-16, Faridabad, Residential (Latitude -28.40792 N Longitude-77.31757 E)	Pre Diwali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB (A)	Lmin	Lmax	Leq dB (A)
Time Duration						
18:00 to 19:00 hr.	52.2	61.2	56.7	60.2	69.2	64.7
19:00 to 20:00 hr	55.2	70.2	62.7	55.1	70.2	62.65
20:00 to 21:00 hr.	54.2	66.2	60.2	60.2	74.2	67.2
21:00 to 22:00 hr	52.2	74.2	63.2	58.2	78.2	68.2
22:00 to 23:00 hr.	54.3	67.2	60.75	60.2	82.2	71.2
23:00 to 24:00 hr	50.2	55.2	52.7	54.2	68.2	61.2

Location Sarvodaya Hospital, sector-8, Faridabad, Commercial (Latitude-28.367834 Longitude-77.336007)	Pre Diwali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB (A)	Lmin	Lmax	Leq dB (A)
18:00 to 19:00 hr.	51.2	60.2	55.7	57.2	67.2	62.2
19:00 to 20:00 hr	54.2	69.2	61.7	54.1	65.2	59.65
20:00 to 21:00 hr.	53.2	65.2	59.2	58.2	71.2	64.7
21:00 to 22:00 hr	51.2	72.2	61.7	56.2	75.2	65.7
22:00 to 23:00 hr.	55.3	60.2	57.75	59.2	79.2	69.2
23:00 to 24:00 hr	49.2	52.2	50.7	51.2	65.2	58.2

Results of Ambient Air Quality Monitoring

Name of the location	HSPCB Building, Sector-16A, Faridabad, Haryana										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Al ($\mu\text{g}/\text{m}^3$)	Ba ($\mu\text{g}/\text{m}^3$)	Fe ($\mu\text{g}/\text{m}^3$)	Sr ($\mu\text{g}/\text{m}^3$)
05.11.2023	471.4	320.8	3.62	8.07	BLQ	1.39	BLQ	0.16	0.25	0.37	BLQ
06.11.2023	439.3	327.5	4.72	10.44	0.10	2.08	1.39	BLQ	0.31	0.05	BLQ
07.11.2023	452.8	337.5	5.86	13.03	BLQ	BLQ	BLQ	0.07	0.07	0.46	BLQ
08.11.2023	427.2	312.5	5.88	13.30	BLQ	BLQ	BLQ	0.07	0.07	0.14	BLQ
09.11.2023	473.0	308.3	6.20	14.34	BLQ	BLQ	BLQ	BLQ	0.23	BLQ	BLQ
10.11.2023	149.0	120.8	7.26	15.68	BLQ	BLQ	1.39	BLQ	0.69	0.07	BLQ
11.11.2023	144.6	95.8	10.03	13.80	BLQ	BLQ	BLQ	BLQ	0.10	0.10	BLQ
12.11.2023	334.6	191.6	17.22	13.90	BLQ	BLQ	BLQ	BLQ	BLQ	0.05	BLQ
13.11.2023	412.8	287.5	17.89	14.19	0.10	4.17	1.39	0.07	0.05	0.19	BLQ
14.11.2023	363.3	237.5	16.42	13.32	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
15.11.2023	459.5	279.1	18.32	14.44	BLQ	1.25	BLQ	BLQ	0.07	0.11	BLQ
16.11.2023	380.4	287.5	21.44	16.52	BLQ	1.81	BLQ	0.05	0.05	0.35	BLQ
17.11.2023	345.8	191.6	10.66	17.86	BLQ	BLQ	BLQ	BLQ	BLQ	0.11	BLQ
18.11.2023	264.1	158.3	18.89	15.98	BLQ	BLQ	1.25	BLQ	0.11	0.09	BLQ
19.11.2023	243.0	191.6	14.62	13.09	BLQ	1.53	BLQ	0.06	0.44	0.08	BLQ

Name of the location	Sarvodya Hospital & Research centre, YMCA Road Near ESI Hospital Sector-8, Ballabgarh										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	222.4	104.1	10.96	9.66	BLQ	1.23	BLQ	0.29	0.48	0.39	BLQ
06.11.2023	137.3	116.6	10.60	11.01	0.10	1.94	BLQ	0.06	0.33	0.05	BLQ
07.11.2023	189.1	108.3	14.04	10.32	BLQ	BLQ	BLQ	0.07	0.08	0.46	BLQ
08.11.2023	299.0	166.6	18.53	10.39	BLQ	BLQ	BLQ	0.08	0.07	0.14	BLQ
09.11.2023	184.6	120.8	15.87	10.72	BLQ	BLQ	BLQ	BLQ	0.23	BLQ	BLQ
10.11.2023	117.9	87.5	5.45	8.68	BLQ	BLQ	1.39	BLQ	0.70	0.07	BLQ
11.11.2023	148.9	87.5	10.06	11.29	BLQ	BLQ	BLQ	BLQ	0.11	0.10	BLQ
12.11.2023	224.9	129.1	18.09	10.75	BLQ	BLQ	BLQ	BLQ	BLQ	0.05	BLQ
13.11.2023	309.8	158.3	12.46	9.69	0.10	3.89	1.25	0.07	0.06	0.18	BLQ
14.11.2023	319.0	170.8	8.15	10.14	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
15.11.2023	394.5	195.8	10.77	10.36	BLQ	1.11	BLQ	BLQ	0.07	0.11	BLQ
16.11.2023	281.4	112.5	10.34	10.97	BLQ	1.53	BLQ	0.05	0.05	0.33	BLQ
17.11.2023	224.2	120.8	10.77	10.36	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
18.11.2023	197.8	104.1	10.77	10.36	BLQ	BLQ	BLQ	BLQ	0.12	0.09	BLQ
19.11.2023	253.2	162.5	4.36	10.24	BLQ	1.39	BLQ	0.06	0.43	0.08	BLQ

5. FATEHABAD

- **Latitude & Longitude :** 29.5132° N, 75.4510° E
- **Climate :** Fatehabad has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 29.75°C (85.55°F) and it is 3.78% higher than India's averages. Fatehabad typically receives about 10.83 millimeters (0.43 inches) of precipitation and has 15.46 rainy days (4.24% of the time) annually.
- **Population :** 942,011
- **Major Land use :** Agriculture & Residential.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	PWD (B&R) Rest House Fatehabad	Residential	29°30'30.6349"	75°27'27.6476"
2	The Ganga Hotel, Fatehabad	Commercial	29°30'52.9207"	75°26'29.6959

Results of Noise Level Monitoring

Location: PWD (B&R) Rest House, Fatehabad, Residential (Latitude : 29°30'30.6349 Longitude : 75°27'27.6476")	Pre Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	31.3	41.1	36.20	36.4	49.2	42.8
19:00 to 20:00 Hr	29.3	54.4	41.85	27.5	57.7	42.60
20:00 to 21:00Hr	27.6	59.8	43.70	25.8	61.3	43.55
21:00 to 22:00 Hr	30.5	56.2	43.35	26.5	63.3	44.90
22:00 to 23:00 Hr	27.8	51.2	39.50	26.1	59.4	42.75
23:00 to 24:00 Hr	26.5	43.8	35.15	24.3	54.7	39.50

Location: The Ganga Hotel, Fatehabad Commercial. (Latitude : 29°30'52.9207" Longitude : 75°26'29.6959)	Pre Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	34.5	48.1	41.3	38.6	62.5	50.55
19:00 to 20:00 Hr	29.6	56.5	43.05	39.8	62.9	51.35
20:00 to 21:00 Hr	31.4	50.8	41.1	38.9	66.3	52.6
21:00 to 22:00 Hr	31.9	58.1	45.0	27.5	72.9	50.2
22:00 to 23:00 Hr	30.7	57.3	44.0	40.1	70.6	55.35
23:00 to 24:00 Hr	34.9	44.5	39.7	38.2	58.7	48.45

Results of Ambient Air Quality Monitoring

Name of the location	PWD B&R Rest House Fatehabad										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	121.81	76.53	14.68	23.27	BLQ	BLQ	BLQ	0.07	0.05	0.52	BLQ
06.11.2023	111.53	68.47	14.45	24.59	0.10	1.67	BLQ	BLQ	0.41	0.06	BLQ
07.11.2023	132.92	57.78	08.48	22.70	BLQ	BLQ	BLQ	0.12	BLQ	1.21	BLQ
08.11.2023	95.14	66.74	08.33	23.35	BLQ	BLQ	BLQ	0.07	BLQ	0.15	BLQ
09.11.2023	93.13	52.92	06.57	23.47	BLQ	BLQ	BLQ	BLQ	0.90	0.07	BLQ
10.11.2023	82.15	47.57	09.97	23.63	BLQ	BLQ	1.25	BLQ	0.90	0.07	BLQ
11.11.2023	135.07	86.46	05.90	22.70	BLQ	BLQ	BLQ	BLQ	BLQ	0.13	BLQ
12.11.2023	145.42	81.53	08.96	23.35	BLQ	BLQ	BLQ	0.07	BLQ	0.07	BLQ
13.11.2023	110.83	51.94	15.99	23.43	0.11	3.89	1.25	0.12	BLQ	0.34	BLQ
14.11.2023	46.53	27.43	14.64	23.63	BLQ	BLQ	BLQ	0.06	BLQ	0.13	BLQ
15.11.2023	24.51	11.94	15.91	24.43	BLQ	BLQ	BLQ	0.05	BLQ	0.18	BLQ
16.11.2023	37.43	18.33	16.92	24.47	BLQ	1.53	BLQ	0.09	BLQ	0.65	BLQ
17.11.2023	31.81	19.79	17.18	25.80	BLQ	BLQ	BLQ	0.06	BLQ	0.36	BLQ
18.11.2023	40.00	21.60	22.75	24.51	BLQ	BLQ	BLQ	0.07	BLQ	0.17	BLQ
19.11.2023	85.14	32.99	20.17	24.23	BLQ	1.39	BLQ	0.10	0.97	0.18	BLQ

Name of the location	The Ganga Hotel Fatehabad										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Al ($\mu\text{g}/\text{m}^3$)	Ba ($\mu\text{g}/\text{m}^3$)	Fe ($\mu\text{g}/\text{m}^3$)	Sr ($\mu\text{g}/\text{m}^3$)
05.11.2023	126.32	78.82	14.45	24.27	BLQ	1.67	BLQ	0.07	0.06	0.52	BLQ
06.11.2023	119.86	75.83	15.39	24.03	BLQ	1.25	75.83	BLQ	0.37	BLQ	BLQ
07.11.2023	109.38	68.26	8.77	23.23	BLQ	BLQ	BLQ	0.09	BLQ	1.01	BLQ
08.11.2023	130.07	56.18	7.36	23.79	BLQ	BLQ	BLQ	0.06	BLQ	0.12	BLQ
09.11.2023	94.65	66.18	10.31	23.99	BLQ	BLQ	BLQ	BLQ	0.79	BLQ	BLQ
10.11.2023	92.08	52.22	07.47	23.75	BLQ	BLQ	BLQ	BLQ	0.78	BLQ	BLQ
11.11.2023	80.00	46.74	08.18	23.43	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
12.11.2023	133.75	85.83	9.19	23.63	BLQ	BLQ	BLQ	BLQ	BLQ	0.15	BLQ
13.11.2023	144.10	81.39	16.73	23.47	BLQ	2.64	BLQ	0.07	BLQ	0.24	BLQ
14.11.2023	109.72	51.11	15.01	23.99	BLQ	BLQ	BLQ	0.05	BLQ	0.10	BLQ
15.11.2023	46.32	27.92	16.06	24.67	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
16.11.2023	23.26	11.18	17.33	24.67	BLQ	1.53	BLQ	0.06	BLQ	0.50	BLQ
17.11.2023	37.08	18.82	17.07	25.72	BLQ	BLQ	BLQ	BLQ	BLQ	0.28	BLQ
18.11.2023	33.06	20.42	22.71	24.71	BLQ	BLQ	BLQ	0.05	BLQ	0.15	BLQ
19.11.2023	41.25	22.08	20.28	24.79	BLQ	1.25	BLQ	0.35	0.78	0.13	BLQ

6. Gurugram

- **Latitude & Longitude:** 28.4595° N, 77.0266° E
- **Climate /Meteorology :** Located at an elevation of 224.6 meters (736.88 feet) above sea level, Gurugram has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 31.2°C (88.16°F) and it is 5.23% higher than India's averages. Gurugram typically receives about 20.73 millimeters (0.82 inches) of precipitation and has 21.81 rainy days (5.98% of the time) annually.
- **Population :** 1514085
- **Major Land use:** Gurugram has maximum area under built up area i.e. 18% of the total area of the district which is much higher than any district of the sub-region. It indicates the urbanization and industrialization in the district is maximum .

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	OMAXE Wedding Mall (Celebration Mall) Sec-48, Sohna Road, Gurugram, Haryana	Commercial	28.4272111	77.0332956

Results of Noise Level Monitoring

Location: Omax Wedding Mall, Gurugram , Commercial (Latitude :- 28.4272111 Longitude :- 77.0332956)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
Time Duration						
18:00 to 19:00 Hr	48.1	127.5	88.5	58.1	130.2	94.4
19:00 to 20:00 Hr	46.5	119.8	83.6	61.4	129.9	97.3
20:00 to 21:00 Hr	47.0	88.6	63.0	52.9	116.2	85.4
21:00 to 22:00 Hr	38.2	77.6	83.1	63.3	121.2	91.6
22:00 to 23:00 Hr	39.9	119.4	82.2	53.5	116.5	81.8
23:00 to 24:00 Hr	54.4	88.3	58.8	59.8	91.4	97.3

Results of Ambient Air Quality Monitoring

Name of the location	Omaxe Wedding Mall, Subhash Chowk, Gurugram										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	476	358	3.2	121.8	BLQ	BLQ	BLQ	0.08	0.14	0.52	BLQ
06.11.2023	481	363	18.3	130.9	BLQ	BLQ	BLQ	BLQ	0.36	0.05	BLQ
07.11.2023	488	375	13.7	231	BLQ	BLQ	BLQ	0.09	0.06	0.96	BLQ
08.11.2023	725	464	24.1	192	BLQ	BLQ	BLQ	0.06	BLQ	0.12	BLQ
09.11.2023	633	424	50.4	159.1	BLQ	BLQ	BLQ	BLQ	0.79	0.07	BLQ
10.11.2023	233	124	25.9	52.0	BLQ	1.28	1.07	BLQ	0.69	0.05	BLQ
11.11.2023	255	170	26	104.5	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
12.11.2023	690	496	33.8	91.2	BLQ	BLQ	BLQ	0.05	BLQ	0.16	BLQ
13.11.2023	556	409	19.9	64.1	BLQ	BLQ	BLQ	0.09	BLQ	0.26	BLQ
14.11.2023	439	336	9.0	71.0	BLQ	BLQ	BLQ	0.06	BLQ	0.12	BLQ
15.11.2023	436	342	17.9	73.6	BLQ	BLQ	BLQ	0.05	BLQ	0.16	BLQ
16.11.2023	491	375	9.3	63.8	BLQ	BLQ	BLQ	0.06	BLQ	0.46	BLQ
17.11.2023	486	351	15.2	87.8	BLQ	BLQ	BLQ	BLQ	BLQ	0.25	BLQ
18.11.2023	288	166	9.7	46.4	BLQ	BLQ	BLQ	0.05	BLQ	0.13	BLQ
19.11.2023	264	142	12.9	31.0	BLQ	BLQ	BLQ	0.07	0.72	0.15	BLQ

Name of the location	The Vilas Condominium, Sec-25, Phase-II, Gurugram										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	412	310	4.2	209.6	BLQ	BLQ	BLQ	0.11	0.21	0.57	BLQ
06.11.2023	466	347	4.4	214.8	BLQ	BLQ	BLQ	BLQ	0.40	0.07	BLQ
07.11.2023	472	361	12.2	260.8	BLQ	BLQ	BLQ	0.11	0.07	1.09	BLQ
08.11.2023	621	377	39.1	213.4	BLQ	BLQ	BLQ	0.07	0.05	0.15	BLQ
09.11.2023	600	345	47.2	188.7	BLQ	BLQ	BLQ	BLQ	0.81	0.07	BLQ
10.11.2023	206	106	9.7	46.4	BLQ	1.50	BLQ	BLQ	0.78	0.06	BLQ
11.11.2023	239	133	12.7	72.3	BLQ	BLQ	BLQ	BLQ	BLQ	0.11	BLQ
12.11.2023	619	445	21.8	78.2	BLQ	BLQ	BLQ	0.07	BLQ	0.21	BLQ
13.11.2023	534	402	16.1	51.7	BLQ	BLQ	BLQ	0.10	0.05	0.30	BLQ
14.11.2023	362	215	14.4	62.2	BLQ	BLQ	BLQ	0.06	BLQ	0.13	BLQ
15.11.2023	379	249	10.9	54.9	BLQ	BLQ	BLQ	0.05	BLQ	0.18	BLQ
16.11.2023	464	343	6.1	27.9	BLQ	BLQ	BLQ	0.06	BLQ	0.45	BLQ
17.11.2023	447	316	1.8	57.9	BLQ	BLQ	BLQ	BLQ	BLQ	0.30	BLQ
18.11.2023	257	160	2.7	40.3	BLQ	BLQ	BLQ	0.07	BLQ	0.17	BLQ
19.11.2023	263	135	7.7	24.2	BLQ	BLQ	BLQ	0.07	0.69	0.14	BLQ

7. Hisar

- **Latitude & Longitude :** 29.1492° N, 75.7217° E
- **Climate /Meteorology :** Very hot summers and very cold winters. The maximum day temperature during the summer varies between 40 to 46 degree Celsius. During winter its ranges between 1.5 degree to 4 degree Celsius. The winds are strong and frequent during May to July. Normally the South Westerly current of summer monsoon brings the rains during July to September period. Intermittent dust storms are also common.
- **Population :** 1,743,931
- **Major Land use:** The major portion of land is covered under agriculture which is 76%.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Arogya Hospital, Near Viswas School, U.E. Hisar, Haryana	Residential	29.13836	75.74441
2	Saini Sweets, Hisar Delhi Road, Hisar, Haryana	Commercial	29.08463	75.44704

Result of Noise Level Monitoring

Location: Aarogya Hospital, Near Viswas School, UE-II, Hisar, Residential (Latitude:29.13836 Longitude: 75.74441)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	27.3	75.9	57.2	30.5	84.7	66.5
19:00 to 20:00 Hr	24.2	79.8	56.3	32.9	82.3	65.2
20:00 to 21:00 Hr	24.3	74.2	55.3	32.1	91.8	74.1
21:00 to 22:00 Hr	33.6	80.2	55.8	27.4	88.6	73.8
22:00 to 23:00 Hr	19.1	67.9	42.8	31.4	93.2	73.8
23:00 to 24:00 Hr	20.8	81.5	51.4	30.1	95.5	76.3

Location: Saini Sweets, Delhi Road, Hisar Commercial (Latitude: 29.08463 Longitude: 75.44704)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	29.3	95.6	60.7	26.5	102.5	78.2
19:00 to 20:00 Hr	32.1	83.3	60.5	36.7	96.3	75.1
20:00 to 21:00 Hr	22.4	85.1	64.3	52.2	101.1	80.3
21:00 to 22:00 Hr	19.5	79.2	58.1	43.1	104.3	81.5
22:00 to 23:00 Hr	26.4	75.5	55.3	51.2	100.8	76.3
23:00 to 24:00 Hr	25.6	77.3	58.1	44.3	97.3	79.7

Results of Ambient Air Quality Monitoring

Name of the location	Aarogya Hospital Near Viswas School, UE-2, Hisar										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	341.78	203.66	10.46	7.52	BLQ	BLQ	BLQ	0.06	0.06	0.51	BLQ
06.11.2023	397.63	266.04	13.86	5.55	BLQ	1.53	BLQ	BLQ	0.32	BLQ	BLQ
07.11.2023	351.39	245.25	14.60	7.63	BLQ	BLQ	BLQ	0.07	BLQ	0.91	BLQ
08.11.2023	285.48	341.44	4.03	6.22	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
09.11.2023	319.44	239.70	22.37	5.94	BLQ	BLQ	BLQ	BLQ	0.76	0.06	BLQ
10.11.2023	81.57	49.04	29.51	5.90	BLQ	BLQ	1.41	BLQ	0.72	0.05	BLQ
11.11.2023	108.96	91.67	37.73	6.67	BLQ	BLQ	BLQ	0.07	BLQ	0.18	BLQ
12.11.2023	274.49	229.27	108.34	6.55	BLQ	BLQ	BLQ	BLQ	BLQ	0.11	BLQ
13.11.2023	266.61	229.86	101.69	6.22	BLQ	3.30	BLQ	0.07	BLQ	0.26	BLQ
14.11.2023	251.66	195.25	47.18	6.31	BLQ	BLQ	BLQ	BLQ	BLQ	0.09	BLQ
15.11.2023	297.81	223.64	44.90	5.94	BLQ	BLQ	BLQ	0.06	0.76	0.14	BLQ
16.11.2023	281.60	192.23	32.72	6.27	BLQ	1.29	BLQ	BLQ	BLQ	0.14	BLQ
17.11.2023	249.31	143.69	40.49	5.98	BLQ	BLQ	BLQ	BLQ	BLQ	0.28	BLQ
18.11.2023	248.55	189.02	39.41	6.27	BLQ	BLQ	BLQ	0.07	BLQ	0.51	BLQ
19.11.2023	221.06	134.41	67.10	6.18	BLQ	1.06	BLQ	BLQ	BLQ	0.13	BLQ

Name of the location	Saini Sweets, Hisar Delhi Road, Hisar										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	349.65	212.88	11.02	7.60	BLQ	BLQ	BLQ	0.07	0.06	0.55	BLQ
06.11.2023	381.54	266.79	14.27	6.18	BLQ	1.14	BLQ	BLQ	0.46	0.07	BLQ
07.11.2023	349.05	245.14	14.45	8.19	BLQ	BLQ	BLQ	0.12	0.05	1.22	BLQ
08.11.2023	283.78	341.20	4.96	7.35	BLQ	BLQ	BLQ	0.08	BLQ	0.17	BLQ
09.11.2023	318.81	238.95	24.47	7.35	BLQ	BLQ	BLQ	BLQ	0.79	0.06	BLQ
10.11.2023	81.57	47.76	24.55	6.87	BLQ	BLQ	1.18	BLQ	0.77	0.06	BLQ
11.11.2023	109.60	90.54	38.14	7.31	BLQ	BLQ	BLQ	0.09	BLQ	0.18	BLQ
12.11.2023	274.49	228.15	109.1	6.71	BLQ	BLQ	BLQ	0.06	BLQ	0.18	BLQ
13.11.2023	265.97	230.84	102.89	7.07	BLQ	3.06	1.41	0.08	BLQ	0.26	BLQ
14.11.2023	251.23	189.18	47.78	6.95	BLQ	BLQ	BLQ	0.06	BLQ	0.11	BLQ
15.11.2023	297.65	224.31	44.98	5.14	BLQ	BLQ	BLQ	0.07	0.83	0.15	BLQ
16.11.2023	279.98	193.43	32.84	6.35	BLQ	1.29	BLQ	0.06	BLQ	0.17	BLQ
17.11.2023	250.0	189.52	40.79	6.71	BLQ	BLQ	BLQ	BLQ	BLQ	0.32	BLQ
18.11.2023	219.85	133.71	39.56	6.63	BLQ	BLQ	BLQ	0.07	BLQ	0.51	BLQ
19.11.2023	346.06	97.60	67.95	6.79	BLQ	1.06	BLQ	BLQ	BLQ	0.12	BLQ

8. Jhajjar

- **Latitude & Longitude :** 28.6055° N, 76.6538° E
- **Climate /Meteorology :** Located at an elevation of 214.17 meters (702.66 feet) above sea level, Jhajjar has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 31.06°C (87.91°F) and it is 5.09% higher than India's averages. Jhajjar typically receives about 14.23 millimeters (0.56 inches) of precipitation and has 19.65 rainy days (5.38% of the time) annually.
- **Population :** 958,405
- **Major Land use:** Residential and Industrial are the major land use in the built-up area in Haryana region.

Description of Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Sector-6 Bahadurgarh	Residential	28.697533	76.913749
2	Sector-9 Bahadurgarh	Residential	28.68416	76.94202
3	Purani Sabji Mandi Bahadurgarh	Commercial	28.70128	76.93037

Results of Noise Level Monitoring

Location: A Sector-6 Bahadurgarh, Residential (Latitude:- 28.697533 Longitude :- 76.913749)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
	18:00 to 19:00 Hr	57.2	60	58.1	60.2	67.4	65.1
	19:00 to 20:00 Hr	58.3	61.2	59.4	65.3	69.7	67.4
	20:00 to 21:00 Hr	57.3	59.2	58.4	70.3	75.7	73.8
	21:00 to 22:00 Hr	55.2	57.3	56.8	62.3	72.8	65.3
	22:00 to 23:00 Hr	50.3	53.2	52.7	58.2	62.4	60.2
	23:00 to 24:00 Hr	45.6	50.8	47.3	55.4	59.8	56.5

Location: Sector-9 Bahadurgarh, residential (Latitude:- 28.68416 Longitude :- 76.94202)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
	18:00 to 19:00 Hr	57.5	60.3	58.3	60.4	67.6	65.3
	19:00 to 20:00 Hr	58.4	61.3	59.6	65.5	69.9	67.7
	20:00 to 21:00 Hr	57.5	59.5	58.6	70.5	75.9	73.9
	21:00 to 22:00 Hr	55.5	57.5	56.9	62.6	72.9	65.5
	22:00 to 23:00 Hr	50.6	53.5	52.9	58.5	62.6	60.6
	23:00 to 24:00 Hr	45.8	50.9	47.8	55.7	59.9	56.8

Location: Purani Sabji Mandi Bahadurgarh, commercial (Latitude:- 28.70128 Longitude :- 76.93037)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
Time Duration						
18:00 to 19:00 Hr	59.4	67.3	65.2	57.3	67.4	62.5
19:00 to 20:00 Hr	55.4	65.0	64.2	63.7	76.7	69.7
20:00 to 21:00 Hr	60.0	67.8	66.0	69.7	77.3	74.4
21:00 to 22:00 Hr	54.2	60.0	62.2	76.0	85.9	81.8
22:00 to 23:00 Hr	54.2	57.3	58.2	71.5	77.2	74.7
23:00 to 24:00 Hr	47.7	56.2	55.2	58.6	72.0	68.7

Results of Ambient Air Quality Monitoring

Name of the location	Rooftop of Regional Office, HSPCB, Sector 6, Bahadurgarh										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	260.00	180.00	13.26	29.01	BLQ	1.57	BLQ	1.94	0.27	3.86	0.06
06.11.2023	328.65	160.87	12.81	28.53	BLQ	1.45	1.09	1.95	0.25	3.90	0.07
07.11.2023	252.69	136.11	9.26	28.37	BLQ	1.69	BLQ	1.94	0.23	3.91	0.07
08.11.2023	297.59	140.94	11.58	28.65	BLQ	1.57	BLQ	1.94	0.22	3.91	0.07
09.11.2023	262.07	207.91	9.82	29.01	BLQ	1.69	1.09	1.93	0.22	3.90	0.06
10.11.2023	53.06	54.23	6.35	28.57	0.11	BLQ	BLQ	4.72	0.32	7.57	BLQ
11.11.2023	88.95	62.08	7.80	28.69	0.11	BLQ	BLQ	4.72	0.31	7.44	0.05
12.11.2023	136.73	98.91	8.74	28.89	BLQ	1.57	1.69	4.72	0.34	7.80	0.06
13.11.2023	184.06	166.43	10.90	29.38	BLQ	BLQ	BLQ	3.78	0.20	6.77	BLQ
14.11.2023	236.10	176.21	8.18	29.30	BLQ	BLQ	BLQ	3.78	0.21	6.78	BLQ
15.11.2023	236.57	180.80	7.54	28.73	BLQ	BLQ	BLQ	1.52	0.26	2.42	0.12
16.11.2023	333.78	210.27	8.81	29.22	BLQ	BLQ	BLQ	1.49	0.24	2.35	0.12
17.11.2023	239.37	152.72	9.34	28.89	BLQ	BLQ	BLQ	1.48	0.24	2.32	0.13
18.11.2023	209.62	92.39	6.50	29.86	BLQ	BLQ	BLQ	1.47	0.23	2.33	0.13
19.11.2023	237.54	165.94	8.59	28.65	BLQ	BLQ	BLQ	1.46	0.23	2.32	0.12

9. Jind

- **Latitude & Longitude :** 29.3255° N, 76.2998° E
- **Climate /Meteorology :** The climate of this district is on the whole dry, hot in summer and cold in winter. The year may be divided into four seasons. The cold season from November to march is followed by hot season which lasts till the onset of the south-west monsoon. The monsoon withdraws by 15 September and is followed by the Post-monsoon or the transition period.
- **Population :** 13,34,152
- **Major Land use:** Agriculture land covers the highest area of Jind district followed by settlements, wasteland, water bodies, and forest.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Sector-10, HUDA, Jind	Residential	29.31287654	76.33722485
2	Sector-10, HUDA Jind	Commercial	29.3135538	76.3403656
3	Civil Hospital Jind	Silent Zone	29.31208548	76.33025497

Results of Noise Level Monitoring

Location: Sector-10, HUDA, Jind Residential Area (Latitude: 29.31287654 Longitude: 76.33722485)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq db(A)	Lmin	Lmax	Leq db(A)
Time duration						
18:00 to 19:00 Hr	65.2	67.1	66.15	74.4	76.2	75.3
19:00 to 20:00 Hr	66.9	68.2	67.05	77.6	78.5	78.05
20:00 to 21:00 Hr	68.5	69.2	68.85	79.4	80.3	79.85
21:00 to 22:00 Hr	72.2	73.1	72.65	81.2	83.4	82.3
22:00 to 23:00 Hr	73.2	74.2	73.7	85.7	88.2	86.95
23:00 to 24:00 Hr	74.2	74.4	74.3	86.2	86.4	86.35
			70.45			81.46

Location:Sector-10, HUDA, Market Jind Commercial Area (Latitude : 29.3135538, Longitue : 76.3403656)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq db(A)	Lmin	Lmax	Leq db(A)
Time duration						
18:00 to 19:00 Hr	67.3	71.2	69.25	70.2	74.4	72.3
19:00 to 20:00 Hr	66.2	72.3	69.25	70.3	74.5	72.4
20:00 to 21:00 Hr	65.8	72.0	68.9	68.3	72.3	70.3
21:00 to 22:00 Hr	64.8	70.5	67.65	67.9	72.5	70.2
22:00 to 23:00 Hr	62.8	68.3	65.55	65.3	71.3	68.3
23:00 to 24:00 Hr	61.3	65.8	63.55	65.3	70.3	67.8
			67.35			70.21

Location: C Civil Hospital, Jind, Silent Zone (Latitude: 29.31208548 Longitude: 76.33025497)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq db(A)	Lmin	Lmax	Leq db(A)
Time duration						
18:00 to 19:00 Hr	57.3	61.0	59.15	60.2	62.4	61.3

Name of the location	LIC Building Sec-10 Jind										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	-	-	-	-	-	-	-	-	-	-	-
06.11.2023	-	-	-	-	-	-	-	-	-	-	-
07.11.2023	-	-	-	-	-	-	-	-	-	-	-
08.11.2023	-	-	-	-	-	-	-	-	-	-	-
09.11.2023	-	-	-	-	-	-	-	-	-	-	-
10.11.2023	-	-	-	-	-	-	-	-	-	-	-
11.11.2023	-	-	-	-	-	-	-	-	-	-	-
12.11.2023	-	-	-	-	-	-	-	-	-	-	-
13.11.2023	-	-	-	-	-	-	-	-	-	-	-
14.11.2023	-	-	-	-	-	-	-	-	-	-	-
15.11.2023	-	-	-	-	-	-	-	-	-	-	-
16.11.2023	255.6 9	-	16.289 44444	9.2846 03659	BLQ	1.67	BLQ	-	-	-	-
17.11.2023	213.7 5	-	14.981 80556	8.6817 07317	BLQ	BLQ	BLQ	-	-	-	-
18.11.2023	182.0 8	-	8.7798 61111	9.5659 55285	BLQ	1.11	BLQ	-	-	-	-
19.11.2023	190.5 6	-	6.0151 38889	9.3649 89837	BLQ	1.39	BLQ	-	-	-	-

10. Kaithal

- **Latitude & Longitude :** 29.8043° N, 76.4039° E
- **Climate /Meteorology :** Kaithal has a Humid subtropical, dry winter climate (Classification: Cwa). The district's yearly temperature is 29.12°C (84.42°F) and it is 3.15% higher than India's averages. Kaithal typically receives about 18.31 millimeters (0.72 inches) of precipitation and has 22.81 rainy days (6.25% of the time) annually.
- **Population :** 10,72,861
- **Major Land use:** Agriculture & Residential.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Sector-19, HUDA , Kaithal	Residential Area	29.809172	76.418806
2	Sector-19, HUDA, Kaithal	Commercial Area Market	29.806921	76.419507
3	Civil Hospital, Kaithal	Silent Zone	29.792353	76.423542

Results of Noise Level Monitoring

Location: Sector-19, HUDA (Residential Area), Kaithal, (Latitude:29.809172 Longitude: 76.418806)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq db(A)	Lmin	Lmax	Leq db(A)
Time duration						
18:00 to 19:00 Hr	64.2	67	65.6	76.5	78.3	77.3
19:00 to 20:00 Hr	65.0	65.5	65.25	77.5	79.3	78.4
20:00 to 21:00 Hr	63.1	64.4	63.75	79.3	82.2	80.75
21:00 to 22:00 Hr	62.5	63.1	62.8	82.2	89.0	85.6
22:00 to 23:00 Hr	62.2	64.5	63.35	89.0	92.2	90.6
23:00 to 24:00 Hr	61.1	62.5	61.8	92.2	94.3	93.2
			63.75			84.3

Location: Sector-19, HUDA (Commercial Area Market), Kaithal, (Latitude: 29.806921 Longitude: 76.419507)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq db(A)	Lmin	Lmax	Leq db(A)
Time duration						
18:00 to 19:00 Hr	67.2	71.5	69.35	70.3	74.5	72.4
19:00 to 20:00 Hr	66.1	72.2	69.15	70.2	74.3	72.25
20:00 to 21:00 Hr	65.7	71.9	68.8	68.5	72.2	70.35
21:00 to 22:00 Hr	64.5	70.2	67.35	67.8	72.2	70
22:00 to 23:00 Hr	62.4	68.2	65.3	65.2	71.2	68.2
23:00 to 24:00 Hr	61.2	65.2	63.2	65.2	70.2	67.7
			67.19			70.15

Location: Civil Hospital, (Silent Zone) Kaithal, (Latitude: 29.792353 Longitude: 76.423542)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq db(A)	Lmin	Lmax	Leq db(A)
18:00 to 19:00 Hr	57.2	61.5	59.35	60.1	62.5	61.3
19:00 to 20:00 Hr	57.2	61.5	59.35	60.0	62.7	61.35
20:00 to 21:00 Hr	56.3	61.1	58.7	59.5	61.4	60.45
21:00 to 22:00 Hr	55.5	59.5	57.5	58.2	60.4	59.3
22:00 to 23:00 Hr	55.2	59.1	57.15	56.1	57.1	56.6
23:00 to 24:00 Hr	54.4	58.3	56.35	54.1	57.5	55.8
			58.06			59.13

16.11.2023	-	-	-	-	-	-	-	-	-	-	-
17.11.2023	-	-	-	-	-	-	-	-	-	-	-
18.11.2023	-	-	-	-	-	-	-	-	-	-	-
19.11.2023	-	-	-	-	-	-	-	-	-	-	-

Name of the location	ECHS, Zila Sainik Board, Sec-19 Kaithal										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Al ($\mu\text{g}/\text{m}^3$)	Ba ($\mu\text{g}/\text{m}^3$)	Fe ($\mu\text{g}/\text{m}^3$)	Sr ($\mu\text{g}/\text{m}^3$)
05.11.2023	-	-	-	-	-	-	-	-	-	-	-
06.11.2023	-	-	-	-	-	-	-	-	-	-	-
07.11.2023	-	-	-	-	-	-	-	-	-	-	-
08.11.2023	-	-	-	-	-	-	-	-	-	-	-
09.11.2023	-	-	-	-	-	-	-	-	-	-	-
10.11.2023	-	-	-	-	-	-	-	-	-	-	-
11.11.2023	-	-	-	-	-	-	-	-	-	-	-
12.11.2023	-	-	-	-	-	-	-	-	-	-	-
13.11.2023	-	-	-	-	-	-	-	-	-	-	-
14.11.2023	312.92	223.26	19.31569444	20.21712398	BLQ	BLQ	BLQ	0.07	BLQ	0.07	BLQ
15.11.2023	0.00	181.25	13.1511111	20.09654472	BLQ	BLQ	BLQ	BLQ	BLQ	0.08	BLQ
16.11.2023	0.00	117.29	16.17736111	20.05635163	BLQ	1.67	BLQ	BLQ	BLQ	0.46	BLQ
17.11.2023	0.00	88.89	41.43347222	20.17693089	BLQ	BLQ	BLQ	BLQ	BLQ	0.23	BLQ
18.11.2023	0.00	107.92	24.24736111	19.85538618	BLQ	BLQ	BLQ	0.06	BLQ	0.09	BLQ
19.11.2023	0.00	93.47	17.41027778	19.89557927	BLQ	1.39	BLQ	0.32	0.77	0.09	BLQ

11. Karnal

- **Latitude & Longitude :** 29.7820° N, 76.9182° E
- **Climate /Meteorology :** In Karnal, the climate is warm and temperate. During the winter season, there is a significant decrease in precipitation levels within Karnal as compared to the summer months. In Karnal, the mean yearly temperature amounts to 23.8 °C | 74.8 °F. The precipitation level on a yearly basis amounts to 828 mm | 32.6 inch as per the meteorological records.
- **Population :** 1,505,324
- **Major Land use:** The major portion of land is covered under Agriculture which is 81.96%. The forest cover is 0.41%. Karnal is accommodating 5.69% of the total built up of Haryana sub region.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	3rd floor, SCO 80-81, Above Punjab National Bank, Namastey Chowk, Karnal,	Residential	29.67065	76.99188
2	Model Town,Dayanand Colony,Karnal,	Residential	29.70327	77.00415
3	Bus Stand,Karnal	Commercial	29.68795	76.99026

Results of Noise Level Monitoring

Location: 3rd floor, SCO 80-81, Above Punjab National Bank, Namastey Chowk, Karnal, residential (Latitude: 29.67065 Longitude: 76.99188)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leg dB(A)	Lmin	Lmax	Leg dB(A)
Time Duration						
18:00 to 19:00 Hr	41.0	49.0	45	48.0	57.0	52.5
19:00 to 20:00 Hr	42.5	48.5	45.5	49.0	58.0	53.5
20:00 to 21:00 Hr	38.0	49.0	43.5	51.0	57.5	54.25
21:00 to 22:00 Hr	37.0	47.5	42.25	53.5	58.0	55.75
22:00 to 23:00 Hr	37.0	45.5	40.75	53.0	56.5	54.75
23:00 to 24:00 Hr	38.0	42.5	40.25	51.5	53.5	52.5
			43.8			54.2

Location: Model Town, Dayanand Colony, Karnal, residential (Latitude: 29.70327 Longitude: 77.00415)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmax	Leg dB(A)	Lmin	Lmax	Leg dB(A)
18:30 to 19:00 Hr	40.5	45.5	43	43.5	54.0	48.75	
19:00 to 20:00 Hr	41.5	47.0	44.25	44.5	59.5	52	
20:00 to 21:00 Hr	42.8	48.0	45.4	49.5	63.5	56.5	
21:00 to 22:00 Hr	42.5	49.5	46	49.5	64.0	56.75	
22:00 to 23:00Hr	37.5	46.5	42	51.0	60.5	55.7	
23:00 to 24:00 Hr	37.0	45.0	41	45.9	59.5	52.7	
			44.0	54.6			
Location: Bus Stand, Karnal, commercial (Latitude: 29.68795 Longitude: 76.99026)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmax	Leg dB(A)	Lmin	Lmax	Leg dB(A)
18:00 to 19:00 Hr	42.8	48.5	45.65	48.5	58.5	53.5	
19:00 to 20:00 Hr	39.5	49.5	44.5	50	60.0	55	
20:00 to 21:00 Hr	37.9	48.5	43.2	52.5	61.5	57	
21:00 to 22:00 Hr	36.8	46.5	41.65	55.5	62.8	59.15	
22:00 to 23:00 Hr	40.2	47.5	43.85	53.8	60.5	57.15	
23:00 to 24:00 Hr	38.5	47.5	43	49.5	54.5	52	
Average			43.8	Average			56.3

Results of Ambient Air Quality Monitoring

Name of the location	SCO 78-79 Namaste Chowk Karnal										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	229.23	33.30	3.8040 40404	7.6366 86992	BLQ	1.14	BLQ	0.18	0.24	0.65	BLQ
06.11.2023	283.78	38.05	3.8210 22727	7.6366 86992	BLQ	1.64	1.14	0.09	0.47	0.09	BLQ
07.11.2023	281.06	42.81	3.4304 22993	7.6732 26164	BLQ	BLQ	BLQ	0.15	0.06	1.31	BLQ
08.11.2023	248.80	33.30	3.4813 76263	7.7463 04508	BLQ	BLQ	BLQ	0.09	BLQ	0.17	BLQ
09.11.2023	242.99	42.81	3.3797 82323	7.5270 69475	BLQ	BLQ	1.01	0.05	0.91	0.09	BLQ
10.11.2023	286.93	....	3.1587 12121	7.4174 51959	BLQ	BLQ	1.39	BLQ	0.89	0.07	BLQ
11.11.2023	577.90	57.08	6.6061 23737	11.582 91759	BLQ	BLQ	BLQ	0.05	BLQ	0.15	BLQ
12.11.2023	682.64	109.40	6.7419 82323	13.227 18034	BLQ	BLQ	BLQ	0.07	BLQ	0.19	BLQ
13.11.2023	459.09	42.81	5.8249 36689	10.559 82077	BLQ	3.66	1.26	0.12	0.05	0.34	BLQ
14.11.2023	295.27	28.54	5.1626 26263	9.9021 15669	BLQ	BLQ	BLQ	0.08	BLQ	0.16	BLQ
15.11.2023	237.31	33.30	3.6919 57071	7.2347 56098	BLQ	BLQ	BLQ	0.07	BLQ	0.21	BLQ
16.11.2023	253.42	....	3.5730 80808	7.0155 21064	BLQ	1.39	BLQ	0.09	0.05	0.60	BLQ
17.11.2023	225.88	....	3.6070 45455	7.0155 21064	BLQ	BLQ	BLQ	0.06	BLQ	0.36	BLQ
18.11.2023	185.16	....	3.5221 33838	6.9059 03548	BLQ	BLQ	BLQ	0.08	0.05	0.19	BLQ
19.11.2023	178.35	....	3.3862 75253	6.8328 25203	BLQ	1.14	BLQ	0.10	0.93	0.18	BLQ

12. Kurukshetra

- **Latitude & Longitude :** 29.9953° N, 76.7798° E
- **Climate /Meteorology :** The climate here is considered warm and temperate. When compared with winter, the summers have much more rainfall. In Kurukshetra, the mean yearly temperature amounts to 23.9 °C | 75.0 °F. Precipitation here is about 808 mm | 31.8 inch per year.
- **Population :** 9,64,655
- **Major Land use:** Agriculture.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Sec-7	Residential	29.97166	76.87536
2	Sec-17, Near LIC Building, Kurukshetra	Commercial	29.97043	76.83844
3	Pipli Road, Opp. New Bus Stand Kurukshetra	Commercial	29.97415	76.86490

Results of Noise Level Monitoring

Location: Sec-7, Kurukshetra, Residential (Latitude:-29.97166 Longitude :- 76.87536)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
	18:00 to 19:00 Hr	37	88.4	60.5	47.8	92.7	71.9
	19:00 to 20:00 Hr	50.9	87.1	62.5	51.7	90.2	64
	20:00 to 21:00 Hr	45.2	89.2	63.1	48.6	83.1	63.7
	21:00 to 22:00 Hr	47.4	94	62.9	52	94.8	65.3
	22:00 to 23:00 Hr	29.9	79.8	62.7	50.8	87.4	64.7
	23:00 to 24:00 Hr	31.2	63.9	44.8	44.2	84	58.4
	Average			59.42			64.67

Location: Sec-17, Near LIC Building, Kurukshetra , Commercial (Latitude:-29.97043 Longitude :- 76.83844)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
	18:00 to 19:00 Hr	35.7	88.8	63.1	42.5	98.2	67
	19:00 to 20:00 Hr	36	84.4	61.1	50.5	92	65.7
	20:00 to 21:00 Hr	32.6	80.1	60.4	50.0	82.2	60.5
	21:00 to 22:00 Hr	31.3	79.6	61.1	57.1	83.6	61.2
	22:00 to 23:00 Hr	36.4	80.5	56.2	58	83.2	62.7
	23:00 to 24:00 Hr	37	87.4	54.4	55	91.8	61.5
	Average			59.38			63.1

Location: Pipli Road, Opp. New Bus Stand Kurukshetra, Commercial (Latitude:-29.97415 Longitude :- 76.86490)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
18:00 to 19:00 Hr	39.7	84.7	62.4	54.7	95.6	72.8
19:00 to 20:00 Hr	42.5	91.3	66.3	52.7	94	65.8
20:00 to 21:00 Hr	40.8	80.9	60.6	50.5	95.1	67.3
21:00 to 22:00 Hr	45.6	86.7	63.9	49.6	92.6	66.5
22:00 to 23:00 Hr	46.6	91.6	62.2	41.5	97.2	68
23:00 to 24:00 Hr	44.5	74.1	53.4	46.4	84.5	66.2
Average			61.47			67.77

Results of Ambient Air Quality Monitoring

Name of the location	Roof of SCO 13P (HSPCB Office) Sec-17, Kurukshetra										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	192.99	---	3.3353 28283	6.7962 86031	BLQ	BLQ	BLQ	0.07	0.07	0.62	BLQ
06.11.2023	208.96	---	3.4542 04545	6.8328 25203	BLQ	1.64	BLQ	BLQ	0.41	0.07	BLQ
07.11.2023	244.63	---	3.6240 27778	6.9424 4272	BLQ	BLQ	BLQ	0.17	0.06	1.70	BLQ
08.11.2023	222.79	---	3.6579 92424	7.2712 9527	BLQ	BLQ	BLQ	0.10	BLQ	0.22	BLQ
09.11.2023	237.12	---	3.9738 63636	7.5270 69475	BLQ	BLQ	BLQ	BLQ	0.91	0.07	BLQ
10.11.2023	280.68	---	4.0927 39899	7.6366 86992	BLQ	BLQ	1.14	BLQ	0.94	0.08	BLQ
11.11.2023	306.57	---	6.0626 89394	11.290 60421	BLQ	BLQ	BLQ	BLQ	BLQ	0.14	BLQ
12.11.2023	353.03	---	6.6231 06061	11.582 91759	BLQ	BLQ	BLQ	0.06	BLQ	0.17	BLQ
13.11.2023	261.93	---	4.0757 57576	7.6001 4782	BLQ	1.64	BLQ	0.15	0.06	0.43	BLQ
14.11.2023	235.92	---	3.9908 4596	7.3809 12786	BLQ	BLQ	BLQ	0.07	BLQ	0.17	BLQ
15.11.2023	232.39	---	3.3862 75253	6.8693 64375	BLQ	BLQ	BLQ	0.05	BLQ	0.18	BLQ
16.11.2023	217.05	---	3.4032 57576	6.7232 07687	BLQ	1.39	BLQ	0.07	BLQ	0.52	BLQ
17.11.2023	206.57	---	3.0738 00505	6.8328 25203	BLQ	BLQ	BLQ	0.07	BLQ	0.45	BLQ
18.11.2023	178.66	---	3.0907 82828	6.7962 86031	BLQ	BLQ	BLQ	0.08	0.05	0.22	BLQ
19.11.2023	194.13	---	3.1077 65152	6.8693 64375	BLQ	BLQ	BLQ	0.11	1.08	0.22	BLQ

13. Mahendergarh

- **Latitude & Longitude :** 28.2734° N, 76.1401° E
- **Climate /Meteorology :** Mahendragarh has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 29.88°C (85.78°F) and it is 3.91% higher than India's averages. Mahendragarh typically receives about 14.08 millimeters (0.55 inches) of precipitation and has 18.0 rainy days (4.93% of the time) annually.
- **Population :** 9,22,088
- **Major Land use :** Agriculture.

Results of Ambient Air Quality Monitoring

Name of the location	Village Nangal Choudhary at BDPO, Mahendergarh										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	342	219	8.8	84.7	BLQ	BLQ	BLQ	0.05	0.05	0.45	BLQ
06.11.2023	376	268	49.1	29.7	BLQ	BLQ	BLQ	BLQ	0.32	BLQ	BLQ
07.11.2023	403	248	24.1	98.0	BLQ	BLQ	BLQ	0.08	BLQ	0.90	BLQ
08.11.2023	423	327	24.9	118.3	BLQ	BLQ	BLQ	BLQ	BLQ	0.09	BLQ
09.11.2023	378	315	25.6	75.5	BLQ	BLQ	BLQ	BLQ	0.77	BLQ	BLQ
10.11.2023	66	37	2.4	27.2	BLQ	1.28	1.28	BLQ	0.67	BLQ	BLQ
11.11.2023	170	104	12.6	42.0	BLQ	BLQ	BLQ	BLQ	BLQ	0.09	BLQ
12.11.2023	427	351	13.7	56.9	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
13.11.2023	365	278	14.0	73.0	BLQ	BLQ	BLQ	0.07	BLQ	0.22	BLQ
14.11.2023	329	212	24	98	BLQ	BLQ	BLQ	BLQ	BLQ	0.09	BLQ
15.11.2023	571	422	17.2	48.5	BLQ	BLQ	BLQ	BLQ	BLQ	0.13	BLQ
16.11.2023	357	205	14.0	52.6	BLQ	BLQ	BLQ	0.05	BLQ	0.42	BLQ
17.11.2023	308	181	19.5	88.6	BLQ	BLQ	BLQ	BLQ	BLQ	0.22	BLQ
18.11.2023	246	119	9.9	35.7	BLQ	BLQ	BLQ	BLQ	BLQ	0.10	BLQ
19.11.2023	254	124	13.8	37.7	BLQ	BLQ	BLQ	0.06	0.71	0.12	BLQ

Name of the location	PHED STP Mahendragarh, Dulana Road										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	361	245	12.6	97.5	BLQ	BLQ	BLQ	0.09	0.09	0.50	BLQ
06.11.2023	394	271	38.7	25.2	BLQ	BLQ	BLQ	BLQ	0.35	BLQ	BLQ
07.11.2023	410	301	17.5	55.2	BLQ	BLQ	BLQ	0.10	BLQ	1.04	BLQ
08.11.2023	448	314	20.0	72.0	BLQ	BLQ	BLQ	0.06	BLQ	0.12	BLQ
09.11.2023	372	249	7.6	145.2	BLQ	BLQ	BLQ	BLQ	0.77	BLQ	BLQ
10.11.2023	62	34	1.9	42.2	BLQ	1.50	BLQ	BLQ	0.76	BLQ	BLQ
11.11.2023	179	91	14.6	60.0	BLQ	BLQ	BLQ	BLQ	BLQ	0.08	BLQ
12.11.2023	405	316	30.5	79.2	BLQ	BLQ	BLQ	0.06	BLQ	0.17	BLQ
13.11.2023	284	172	74.3	60.3	BLQ	BLQ	BLQ	0.09	BLQ	0.27	BLQ
14.11.2023	291	185	14.1	73.0	BLQ	BLQ	BLQ	0.05	BLQ	0.11	BLQ
15.11.2023	495	366	28.9	55.1	BLQ	BLQ	BLQ	BLQ	BLQ	0.15	BLQ
16.11.2023	343	221	17.3	66.0	BLQ	BLQ	BLQ	0.06	BLQ	0.43	BLQ
17.11.2023	314	172	9.7	46.4	BLQ	BLQ	BLQ	BLQ	BLQ	0.27	BLQ
18.11.2023	281	146	7.8	44.9	BLQ	BLQ	BLQ	0.05	BLQ	0.14	BLQ
19.11.2023	272	131	7.2	54.4	BLQ	BLQ	BLQ	0.06	0.67	0.11	BLQ

14. Nuh

- **Latitude & Longitude :** 28.1024° N, 76.9931° E
- **Climate /Meteorology :** In Nuh, the wet season is sweltering, oppressive, and partly cloudy and the dry season is hot and mostly clear. Over the course of the year, the temperature typically varies from 47°F to 106°F and is rarely below 42°F or above 112°F.
- **Population :** 10,89,406
- **Major Land use :** Agriculture.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Near MC Office Nuh	Commercial	28.2135684	76.9536022
2	Qureshi Mohalla, Nuh	Residential	28.1070923	77.0085419
3	SHKM Hospital, Nuh	Silent zone	28.08984	76.97349

Result of Noise Level Monitoring

Location: Near MC Office, Nuh Commercial (Latitude: 28.2135684 Longitude:76.9536022)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq db(A)	Lmin	Lmax	Leq db(A)
Time duration						
18:00 to 19:00 Hr	62.7	64.3	63.8	74.3	78.2	76.7
19:00 to 20:00 Hr	60.2	63.1	62.4	78.2	81.4	80.1
20:00 to 21:00 Hr	56.2	58.9	57.4	79.7	83.2	81.8
21:00 to 22:00 Hr	52.3	55.4	53.9	77.2	80.2	78.7
22:00 to 23:00 Hr	52.1	54.3	53.4	73.1	76.1	75.1
23:00 to 24:00 Hr	49.3	51.6	49.9	60.3	65.7	62.6
			56.8			75.7

Location: Qureshi Mohalla, Nuh, Residential zone (Latitude : 28.1070923 Longitude : 77.0085419)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq db(A)	Lmin	Lmax	Leq db(A)
Time duration						
18:00 to 19:00 Hr	61.1	63.4	62.2	71.2	74.3	72.4
19:00 to 20:00 Hr	60.5	62.6	61.7	72.2	76.8	75.1
20:00 to 21:00 Hr	57.3	60.2	59.2	75.9	79.2	77.8
21:00 to 22:00 Hr	54.6	59.9	57.1	74.2	77.3	76.2
22:00 to 23:00 Hr	53.6	54.5	54.0	70.1	73.2	72.0
23:00 to 24:00 Hr	50.3	53.1	51.6	65.3	68.7	66.6
			57.5			73.3

Location: SHKM Hospital, Nuh, Silent zone (Latitude : 28.08984 Longitude : 76.97349)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq db(A)	Lmin	Lmax	Leq db(A)
18:00 to 19:00 Hr	49.2	53.7	51.8	58.3	61.4	60.2
19:00 to 20:00 Hr	47.6	51.1	49.2	59.8	69.3	67.1
20:00 to 21:00 Hr	46.8	50.8	48.1	60.3	64.9	63.2
21:00 to 22:00 Hr	44.1	47.9	45.1	56.4	60.2	58.8
22:00 to 23:00 Hr	40.3	45.3	42.4	55.3	61.9	58.2
23:00 to 24:00 Hr	39.6	42.7	40.3	52.1	58.2	54.7
			46.2			60.2

Results of Ambient Air Quality Monitoring

Name of the location	Station-1,MDA office, Nuh										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	330.9	116.6	20.27	22.54	BLQ	1.25	BLQ	BLQ	BLQ	0.31	BLQ
06.11.2023	318.3	137.5	19.84	22,63	BLQ	2.08	1.11	BLQ	0.32	BLQ	BLQ
07.11.2023	320.6	133.3	20.58	22.40	BLQ	BLQ	BLQ	BLQ	BLQ	0.41	BLQ
08.11.2023	251.3	162.5	20.19	25.14	BLQ	BLQ	BLQ	BLQ	0.05	0.10	BLQ
09.11.2023	245.4	129.1	21.44	25.85	BLQ	BLQ	BLQ	BLQ	0.24	BLQ	BLQ
10.11.2023	163.5	58.3	18.71	26.56	BLQ	BLQ	1.94	BLQ	0.63	BLQ	BLQ
11.11.2023	148.6	70.8	18.79	23.12	BLQ	BLQ	BLQ	BLQ	0.07	0.06	BLQ
12.11.2023	128.9	58.3	18.99	21.53	BLQ	BLQ	BLQ	BLQ	0.09	BLQ	BLQ
13.11.2023	223.3	91.6	22.69	20.84	0.10	4.03	1.39	BLQ	BLQ	0.16	BLQ
14.11.2023	245.7	104.1	23.27	22.91	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
15.11.2023	236.0	108.3	24.35	21.96	BLQ	1.25	BLQ	BLQ	0.11	0.07	BLQ
16.11.2023	234.8	83.3	23.31	20.13	BLQ	1.94	BLQ	BLQ	BLQ	0.32	BLQ
17.11.2023	195.8	70.8	23.30	20.21	BLQ	BLQ	BLQ	BLQ	BLQ	0.37	BLQ
18.11.2023	185.7	66.6	22.85	20.76	BLQ	BLQ	1.25	BLQ	BLQ	BLQ	BLQ
19.11.2023	244.6	79.1	24.16	21.44	BLQ	1.67	BLQ	BLQ	0.39	BLQ	BLQ

Name of the location	Station-2, MC office, Tauru										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	359.8	125.0	18.9	20.60	BLQ	1.39	BLQ	0.07	1.10	0.45	BLQ
06.11.2023	338.7	145.8	15.92	21.43	0.10	1.94	BLQ	BLQ	0.30	0.05	BLQ
07.11.2023	287.5	129.1	15.75	21.99	BLQ	BLQ	BLQ	0.06	BLQ	0.45	BLQ
08.11.2023	259.7	166.6	15.64	27.03	BLQ	BLQ	BLQ	0.07	0.05	0.13	BLQ
09.11.2023	259.1	112.5	15.95	27.22	BLQ	BLQ	BLQ	BLQ	0.21	BLQ	BLQ
10.11.2023	179.4	75.0	15.70	25.49	BLQ	BLQ	1.67	BLQ	0.68	0.07	BLQ
11.11.2023	137.5	62.5	16.27	25.90	BLQ	BLQ	BLQ	BLQ	0.08	0.08	BLQ
12.11.2023	133.0	70.8	16.77	24.49	BLQ	BLQ	BLQ	BLQ	BLQ	0.07	BLQ
13.11.2023	255.5	104.1	20.61	25.49	0.10	4.17	1.25	BLQ	BLQ	0.23	BLQ
14.11.2023	245.3	95.8	20.19	25.04	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
15.11.2023	231.9	83.3	19.33	25.23	BLQ	1.11	BLQ	BLQ	BLQ	0.11	BLQ
16.11.2023	238.9	95.8	19.03	24.76	BLQ	1.81	1.11	0.06	BLQ	0.36	BLQ
17.11.2023	213.1	87.5	18.04	24.20	BLQ	BLQ	BLQ	BLQ	BLQ	0.13	BLQ
18.11.2023	166.6	79.1	17.75	23.5	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
19.11.2023	206.7	79.1	18.43	24.25	BLQ	1.53	BLQ	0.06	0.43	0.08	BLQ

15. Panchkula

- **Latitude & Longitude :** 30.6942° N, 76.8606° E
- **Climate /Meteorology :** Panchkula has a humid subtropical, dry winter climate (Classification: Cwa). The district's yearly temperature is 26.3°C (79.34°F) and it is 0.33% higher than India's averages. Panchkula typically receives about 29.3 millimeters (1.15 inches) of precipitation and has 31.0 rainy days (8.49% of the time) annually.
- **Population :** 5,61,293
- **Major Land use :** The major portion of land is covered under Forest which is 46.97%. The agriculture land is 36%. Panchkula is accommodating 3.23% of the total built up of Haryana Sub region.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	SCO-115-116, 3 rd Floor, Sector-25, Panchkula,	Commercial	30.6698	76.886644
2	392 P, Sector-23, Panchkula,	Residential	30.68994	76.87994
3	Plot No. 86 , Phase-1, Industrial Area, Panchkula,	Industrial	30.67514	76.83496

Result of Noise Level Monitoring

Location: SCO-115-116, 3 rd Floor, Sector-25, Panchkula, Commercial (Longitude:76.886644 Latitude: 30.6698)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmax	Leq (dB(A))	Lmin	Lmax	Leq (dB(A))
18:00 to 19:00 Hr	59.1	63.1	61.4	70.1	74.3	71.8	
19:00 to 20:00 Hr	60.4	63.2	61.8	83.6	89.5	87.8	
20:00 to 21:00 Hr	61.3	63.1	62.3	82.6	89.5	87.7	
21:00 to 22:00 Hr	51.3	54.3	53.6	89.4	98.3	95.9	
22:00 to 23:00 Hr	51.3	54.9	53.4	57.6	62.9	61.0	
23:00 to 24:00 Hr	51.6	53.6	52.7	57.3	67.3	62.6	
	Average			57.5	Average		77.8

Location: House No. 392 P, Sector-23, Panchkula, Residential, (Longitude: 76.87994 Latitude: 30.68994)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmax	Leq (dB(A))	Lmin	Lmax	Leq (dB(A))
18:00 to 19:00 Hr	50.1	52.9	51.6	69.4	78.3	74.4	
19:00 to 20:00 Hr	49.2	51.6	50.5	74.6	79.2	77.4	
20:00 to 21:00 Hr	51.2	53.4	52.3	68.2	89.3	86.1	
21:00 to 22:00 Hr	40.5	44.6	43.0	65.8	84.3	78.8	
22:00 to 23:00 Hr	42.0	44.8	43.7	48.1	51.3	49.7	
23:00 to 24:00 Hr	42.0	44.8	43.2	46.3	54.7	50.4	
	Average			47.4	Average		69.5

Location: Plot No. 86 , Phase-1, Industrial Area, Panchkula, Industrial (Longitude -76.83496 Latitude-30.67514)	Pre-Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmax	Leq (dB(A))	Lmin	Lmax	Leq (dB(A))
18:00 to 19:00 Hr	71.0	73.6	72.7	79.3	88.3	84.7	
19:00 to 20:00 Hr	71.3	75.6	73.0	90.5	99.2	96.2	
20:00 to 21:00 Hr	70.2	73.6	72.1	90.4	98.3	96.0	
21:00 to 22:00 Hr	62.8	69.5	67.3	91.3	100.5	98.3	
22:00 to 23:00 Hr	64.6	69.4	67.8	71.6	78.2	74.9	
23:00 to 24:00 Hr	61.3	69.2	65.5	71.6	76.3	74.0	
Average			69.8	Average			87.4

Results of Ambient Air Quality Monitoring

Name of the location	SCO 115-116, 3 rd Floor Sec-25 Panchkula										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	177.27	23.78	4.41	7.96	BLQ	BLQ	BLQ	0.08	0.06	0.58	BLQ
06.11.2023	152.78	28.54	3.51	7.01	BLQ	1.77	BLQ	BLQ	0.41	0.06	BLQ
07.11.2023	173.42	28.54	4.44	7.12	BLQ	BLQ	BLQ	0.12	BLQ	1.28	BLQ
08.11.2023	195.77	19.03	4.52	7.31	BLQ	BLQ	BLQ	0.09	BLQ	0.17	BLQ
09.11.2023	210.67	23.78	4.94	7.71	BLQ	BLQ	BLQ	BLQ	0.88	0.07	BLQ
10.11.2023	233.96	19.03	5.21	8.48	BLQ	BLQ	1.52	BLQ	0.86	0.07	BLQ
11.11.2023	279.29	42.81	5.46	8.22	BLQ	BLQ	BLQ	BLQ	BLQ	0.14	BLQ
12.11.2023	306.5	47.56	6.01	9.02	BLQ	BLQ	BLQ	0.07	BLQ	0.18	BLQ
13.11.2023	238.07	38.05	5.99	8.07	BLQ	1.77	BLQ	0.11	0.05	0.33	BLQ
14.11.2023	207.77	33.3	5.43	6.94	BLQ	BLQ	BLQ	0.08	BLQ	0.17	BLQ
15.11.2023	210.54	23.78	4.97	6.02	BLQ	1.01	BLQ	0.05	BLQ	0.18	BLQ
16.11.2023	196.15	19.03	4.36	6.5	BLQ	1.52	BLQ	0.08	BLQ	0.59	BLQ
17.11.2023	193.37	19.03	4.09	5.77	BLQ	1.01	BLQ	0.06	BLQ	0.37	BLQ
18.11.2023	178.47	14.27	3.84	5.15	BLQ	BLQ	BLQ	0.07	0.05	0.18	BLQ
19.11.2023	188.83	19.03	3.65	4.97	BLQ	BLQ	BLQ	0.08	0.85	0.17	BLQ

Name of the location	Plot No. 86, Ind. Area Phase-1 Panchkula										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	170.08	23.78	4.57	8.22	BLQ	BLQ	BLQ	0.07	0.07	0.69	BLQ
06.11.2023	179.92	19.03	3.67	7.42	BLQ	1.52	BLQ	0.05	0.54	0.08	BLQ
07.11.2023	21.92	23.78	4.67	7.34	BLQ	BLQ	BLQ	0.13	BLQ	1.46	BLQ
08.11.2023	229.36	23.78	4.65	7.78	BLQ	BLQ	BLQ	0.08	BLQ	0.18	BLQ
09.11.2023	230.43	23.78	5.09	8.07	BLQ	BLQ	BLQ	BLQ	0.87	0.05	BLQ
10.11.2023	235.48	19.03	5.42	8.88	BLQ	1.39	1.52	BLQ	1.07	0.07	BLQ
11.11.2023	261.87	33.3	5.67	8.73	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
12.11.2023	313.83	42.81	6.23	9.5	BLQ	BLQ	BLQ	0.08	BLQ	0.23	BLQ
13.11.2023	293.94	33.3	6.13	8.62	BLQ	BLQ	1.01	0.12	0.05	0.39	BLQ
14.11.2023	231.57	28.54	5.84	7.56	BLQ	BLQ	BLQ	0.06	BLQ	0.15	BLQ
15.11.2023	225.13	23.78	5.18	6.25	BLQ	BLQ	BLQ	0.05	BLQ	0.23	BLQ
16.11.2023	206.19	28.54	4.43	7.05	BLQ	BLQ	BLQ	1.22	0.05	0.86	BLQ
17.11.2023	210.1	23.78	4.26	6.06	BLQ	BLQ	BLQ	0.06	BLQ	0.45	BLQ
18.11.2023	191.48	19.03	4.13	6.1	BLQ	BLQ	BLQ	BLQ	0.06	0.27	BLQ
19.11.2023	186.3	23.78	3.87	5.44	BLQ	BLQ	BLQ	0.08	0.96	0.18	BLQ

16. Panipat

- **Latitude & Longitude :** 29.3909° N, 76.9635° E
- **Climate /Meteorology :** Panipat has a Humid subtropical, dry winter climate (Classification: Cwa). The district's yearly temperature is 29.16°C (84.49°F) and it is 3.19% higher than India's averages. Panipat typically receives about 19.71 millimeters (0.78 inches) of precipitation and has 23.72 rainy days (6.5% of the time) annually.
- **Population :** 1,205,437
- **Major Land use :** The major portion of land is covered under Agriculture which is 83.61%. The forest cover is 3.29%. Panipat is accommodating 6.61% of the total built up of Haryana sub region.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Sector-11, HUDA, Panipat	Residential	29.381354	76.979919
2	Sector-12, HUDA, Panipat	Commercial	29.382636	76.990135
3	Civil Hospital Panipat	Silent Zone	29.400652	76.970484

Result of Noise Level Monitoring

Location: Sector-11, HUDA, Panipat Residential Area (Latitude:-29.381354 Longitude:-76.979919)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
	18:00 to 19:00 Hr	63.4	67.0	65.2	72.2	76.0	74.1
	19:00 to 20:00 Hr	65.1	65.5	65.3	75.5	77.5	76.5
	20:00 to 21:00 Hr	62.5	64.4	63.45	77.5	79.4	78.25
	21:00 to 22:00 Hr	61.4	63.1	62.25	80.1	83.5	81.8
	22:00 to 23:00 Hr	61.3	64.5	62.9	81.3	85.5	83.4
	23:00 to 24:00 Hr	61.0	62.5	61.75	72.2	76.5	74.35

Location: Sector-12, HUDA, Panipat, Commercial Area Market (Latitude:29.382636 Longitude :-76.990135)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
	18:00 to 19:00 Hr	65.2	70.5	67.85	71.3	74.5	72.9
	19:00 to 20:00 Hr	64.6	71.7	68.15	71.2	74.3	72.75
	20:00 to 21:00 Hr	63.5	70.9	67.2	69.5	73.2	71.35
	21:00 to 22:00 Hr	62.7	70.2	66.45	68.8	73.0	70.9
	22:00 to 23:00 Hr	62.4	69.2	65.8	66.2	71.2	68.7
	23:00 to 24:00 Hr	61.2	65.2	63.2	64.3	70.2	67.25

Location: Civil Hospital, Panipat, Silent Zone (Latitude:-29.400652 Longitude:-76.970484)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
	18:00 to 19:00 Hr	55.2	60.5	57.85	60.1	62.5	61.3
	19:00 to 20:00 Hr	55.1	60.5	62.5	60.0	62.7	61.35
	20:00 to 21:00 Hr	54.2	60.0	57.1	58.3	60.4	59.35
	21:00 to 22:00 Hr	53.5	59.0	56.25	57.5	60.2	58.85
	22:00 to 23:00 Hr	53.0	57.5	55.25	56.1	58.1	57.1
	23:00 to 24:00 Hr	52.1	57.0	54.55	54.1	57.5	55.8

Results of Ambient Air Quality Monitoring

Name of the location	Station-A Roof of HSPCB Office Sec-25 Panipat										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	260.20	38.15	3.46	6.43	-	-	-	-	-	-	-
06.11.2023	219.77	50.81	4.23	7.79	BLQ	1.62	BLQ	0.08	0.43	0.09	BLQ
07.11.2023	237.20	54.38	4.56	9.02	BLQ	BLQ	BLQ	0.13	0.07	0.15	BLQ
08.11.2023	251.85	37.79	4.46	8.53	BLQ	BLQ	BLQ	0.08	BLQ	0.17	BLQ
09.11.2023	263.87	42.52	4.62	8.87	BLQ	BLQ	BLQ	BLQ	0.82	0.07	BLQ
10.11.2023	506.0	59.28	4.84	9.27	BLQ	BLQ	1.04	BLQ	0.78	0.07	BLQ
11.11.2023	685.85	90.72	6.03	12.36	BLQ	BLQ	BLQ	BLQ	BLQ	0.14	BLQ
12.11.2023	497.76	49.60	4.10	7.85	BLQ	BLQ	BLQ	0.07	BLQ	0.17	BLQ
13.11.2023	372.94	45.47	3.27	7.17	BLQ	3.36	1.50	0.11	0.05	0.30	BLQ
14.11.2023	293.01	22.84	3.16	7.01	BLQ	BLQ	BLQ	0.08	BLQ	0.15	BLQ
15.11.2023	253.13	30.99	3.34	7.51	BLQ	BLQ	BLQ	0.06	BLQ	0.17	BLQ
16.11.2023	248.66	41.12	3.40	7.66	BLQ	1.39	BLQ	0.08	BLQ	0.51	BLQ
17.11.2023	231.35	41.68	3.37	7.63	BLQ	BLQ	BLQ	0.06	BLQ	0.33	BLQ
18.11.2023	248.86	29.78	3.41	7.72	BLQ	BLQ	BLQ	0.07	BLQ	0.17	BLQ
19.11.2023	214.25	29.46	3.44	7.57	BLQ	1.16	BLQ	0.08	0.78	0.15	BLQ

Name of the location	Station-B, Roof of the NFL Rest House, GT Road, Panipat											
Date	Regulatory Parameters							Additional Parameters				
	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}				
					Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Al ($\mu\text{g}/\text{m}^3$)	Ba ($\mu\text{g}/\text{m}^3$)	Fe ($\mu\text{g}/\text{m}^3$)	Sr ($\mu\text{g}/\text{m}^3$)	
05.11.2023	233.01	34.08	3.44	6.39	-	-	-	-	-	-	-	
06.11.2023	227.72	25.56	3.13	6.36	BLQ	1.50	BLQ	0.14	0.52	0.10	BLQ	
07.11.2023	200.98	34.08	3.10	6.70	BLQ	BLQ	BLQ	0.13	0.07	1.15	BLQ	
08.11.2023	296.46	25.56	3.13	6.95	BLQ	BLQ	BLQ	0.09	BLQ	0.17	BLQ	
09.11.2023	293.78	34.29	3.16	6.83	BLQ	BLQ	BLQ	BLQ	0.83	0.07	BLQ	
10.11.2023	480.68	68.17	4.02	9.70	BLQ	BLQ	1.39	BLQ	0.78	0.07	BLQ	
11.11.2023	647.80	0.19	5.63	11.28	BLQ	BLQ	BLQ	BLQ	BLQ	0.14	BLQ	
12.11.2023	342.10	51.12	3.63	9.83	BLQ	BLQ	BLQ	0.07	BLQ	0.17	BLQ	
13.11.2023	282.12	33.67	3.0	8.96	BLQ	3.36	1.04	0.10	0.06	0.29	BLQ	
14.11.2023	194.57	29.46	3.03	8.16	BLQ	BLQ	BLQ	0.08	0.06	0.15	BLQ	
15.11.2023	233.72	42.28	3.41	7.57	BLQ	BLQ	BLQ	0.06	0.05	0.17	BLQ	
16.11.2023	239.50	37.91	3.54	7.66	BLQ	1.39	BLQ	0.08	0.05	0.48	BLQ	
17.11.2023	239.69	29.57	3.53	7.76	BLQ	BLQ	BLQ	0.05	0.03	0.31	BLQ	
18.11.2023	245.30	29.69	3.59	7.88	BLQ	BLQ	BLQ	0.07	0.05	0.17	BLQ	
19.11.2023	243.21	25.50	3.66	7.85	BLQ	1.16	BLQ	0.09	0.77	0.15	BLQ	

17. Palwal

- **Latitude & Longitude :** 28.1473° N, 77.3260° E
- **Climate /Meteorology :** Located at an elevation of 197.03 meters (646.42 feet) above sea level, Palwal has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 30.43°C (86.77°F) and it is 4.46% higher than India's averages. Palwal typically receives about 13.7 millimeters (0.54 inches) of precipitation and has 20.64 rainy days (5.65% of the time) annually.
- **Population :** 1042708
- **Major Land use :** Agriculture.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	HSVP Office Complex, Near Gymkhana Club, Sector -12, Palwal	Residential	28.133811	77.315058

Result of Noise level Monitoring

Location: HSVP Office Complex, Near Gymkhana Club, Sector -12, Palwal, (Latitude:- 28.133811 Longitude :- 77.315058)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
Time Duration						
18:00 to 19:00 Hr	48.3	55.2	51.75	54.2	65.2	59.7
19:00 to 20:00 Hr	49.2	57.2	53.2	55.1	72.2	63.65
20:00 to 21:00 Hr	49.4	58.2	53.8	58.2	75.3	66.75
21:00 to 22:00 Hr	46.2	55.7	50.95	59.4	79.2	69.3
22:00 to 23:00 Hr	45.4	53.2	49.3	59.8	81.3	70.55
23:00 to 24:00 Hr	45.1	52.6	48.85	57.3	78.2	67.75

Results of Ambient Air Quality Monitoring

Name of the location	APEX Hospital Near Alawalpur chowk, Delhi Mathura road, Palwal										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	242.5	70.8	11.32	4.17	BLQ	1.25	BLQ	BLQ	0.05	0.32	BLQ
06.11.2023	265.1	87.5	9.83	4.11	BLQ	2.08	BLQ	BLQ	0.32	0.05	BLQ
07.11.2023	292.3	75.0	13.38	4.09	BLQ	BLQ	BLQ	BLQ	BLQ	0.42	BLQ
08.11.2023	336.3	79.1	12.20	4.11	BLQ	BLQ	BLQ	0.05	0.06	0.12	BLQ
09.11.2023	249.2	70.8	10.28	4.21	BLQ	BLQ	BLQ	BLQ	0.25	BLQ	BLQ
10.11.2023	147.8	58.3	6.93	5.52	BLQ	BLQ	1.25	BLQ	0.68	0.05	BLQ
11.11.2023	134.0	50.0	7.17	5.47	BLQ	BLQ	BLQ	BLQ	0.08	0.07	BLQ
12.11.2023	151.9	45.8	7.16	6.13	BLQ	BLQ	BLQ	BLQ	0.10	0.05	BLQ
13.11.2023	351.7	112.5	8.62	6.05	0.10	4.03	1.25	0.06	BLQ	0.17	BLQ
14.11.2023	190.3	95.8	9.10	5.09	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
15.11.2023	176.2	79.1	10.28	6.83	BLQ	1.25	BLQ	BLQ	0.12	0.09	BLQ
16.11.2023	264.9	70.8	10.27	6.92	BLQ	1.81	BLQ	BLQ	0.05	0.33	BLQ
17.11.2023	265.8	66.6	10.01	6.56	BLQ	BLQ	BLQ	BLQ	BLQ	0.20	BLQ
18.11.2023	216.4	58.3	7.63	6.53	BLQ	BLQ	1.11	BLQ	BLQ	0.06	BLQ
19.11.2023	210.5	54.1	10.42	6.41	BLQ	1.53	BLQ	BLQ	0.45	0.06	BLQ

Name of the location	HSVP Office Complex, Near Gymkhana Club, Sector -12, Palwal-121102										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	191.5	58.3	12.19	4.86	BLQ	1.39	BLQ	BLQ	BLQ	0.32	BLQ
06.11.2023	226.9	95.8	11.13	6.02	0.10	2.08	1.11	BLQ	0.31	0.05	BLQ
07.11.2023	301.9	62.5	14.85	7.45	BLQ	BLQ	BLQ	BLQ	BLQ	0.43	BLQ
08.11.2023	338.3	79.1	13.80	6.42	BLQ	BLQ	BLQ	0.07	0.06	0.14	BLQ
09.11.2023	224.6	54.1	13.07	6.76	BLQ	BLQ	BLQ	BLQ	0.25	BLQ	BLQ
10.11.2023	151.9	45.8	9.44	8.06	BLQ	BLQ	1.25	BLQ	0.70	0.06	BLQ
11.11.2023	134.2	50	10.02	7.35	BLQ	BLQ	BLQ	BLQ	0.07	0.08	BLQ
12.11.2023	133.9	45.8	11.05	7.30	BLQ	BLQ	BLQ	BLQ	0.10	0.07	BLQ
13.11.2023	353.1	112.5	10.73	8.27	0.10	4.03	1.81	0.07	0.05	BLQ	BLQ
14.11.2023	220.9	95.8	11.90	6.80	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
15.11.2023	178.4	70.8	13.65	8.76	BLQ	1.39	BLQ	BLQ	0.12	0.11	BLQ
16.11.2023	245.5	62.5	12.69	9.21	BLQ	1.67	BLQ	0.05	BLQ	0.34	BLQ
17.11.2023	231.0	62.5	12.20	6.73	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
18.11.2023	207.2	54.1	9.20	6.51	BLQ	BLQ	1.11	BLQ	BLQ	0.07	BLQ
19.11.2023	127.8	33.3	13.75	7.49	BLQ	1.53	BLQ	BLQ	0.49	0.07	BLQ

18. Rewari

- **Latitude & Longitude :** 28.1920° N, 76.6191° E
- **Climate /Meteorology :** Located at an elevation of 242.99 meters (797.21 feet) above sea level, Rewari has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 30.17°C (86.31°F) and it is 4.2% higher than India's averages. Rewari typically receives about 13.05 millimeters (0.51 inches) of precipitation and has 19.73 rainy days (5.41% of the time) annually.
- **Population :** 900,332
- **Major Land use:** Agriculture & Forest.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1.	Dakah Prajpati chowk Rewari	Residential	28.205616	76.6334
2.	M.C Bawal, Rewari	Commercial	28.07079	76.57677

Result of Noise level Monitoring

Location: Dakah Prajpati chowk, Rewari Residential (Latitude:-28.205616 Longitude :- 76.6334)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
	18:00 to 19:00 Hr	44.4	85.8	59.9	42.9	103	69.4
	19:00 to 20:00 Hr	42.4	85.5	60.6	39.1	102.8	74.1
	20:00 to 21:00 Hr	41.6	88.6	59.9	33.9	104	75.9
	21:00 to 22:00 Hr	42.3	84.3	60.3	25.9	108.7	80
	22:00 to 23:00 Hr	36	78.4	53.3	23.2	104	75.9
	23:00 to 24:00 Hr	36.7	68.6	43.6	29.3	108.2	78.5

Location: M.C Bawal, Rewari Commercial (Latitude:-28.07079 Longitude :- 76.57677)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmix	Leq (dB(A))	Lmin	Lmix	Leq (dB(A))
	18:00 to 19:00 Hr	43.2	93	63.8	51.6	93.5	69
	19:00 to 20:00 Hr	44.4	77.9	60.9	50.9	94.7	LAN
	20:00 to 21:00 Hr	46.6	83.5	64.8	43.5	89.9	69
	21:00 to 22:00 Hr	56.3	84.3	65.6	41.9	95.5	75
	22:00 to 23:00 Hr	46.6	82.3	62.2	43.2	97.3	77.3
	23:00 to 24:00 Hr	47.1	77.1	59.9	36	90.4	70.4

Results of Ambient Air Quality Monitoring

Name of the location	House of Sh. Harish Kumar Turkiawas Road, Near Daksh Prajapati Chowk, Rewari										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Al ($\mu\text{g}/\text{m}^3$)	Ba ($\mu\text{g}/\text{m}^3$)	Fe ($\mu\text{g}/\text{m}^3$)	Sr ($\mu\text{g}/\text{m}^3$)
05.11.2023	478	349	88.0	51.0	BLQ	BLQ	BLQ	0.07	0.06	0.60	BLQ
06.11.2023	410	274	15	48	BLQ	BLQ	BLQ	BLQ	0.41	0.05	BLQ
07.11.2023	407	322	17.9	51.8	BLQ	BLQ	BLQ	0.12	BLQ	1.17	BLQ
08.11.2023	431	351	25.4	53.0	BLQ	BLQ	BLQ	0.07	BLQ	0.14	BLQ
09.11.2023	384	263	12.6	41.1	BLQ	BLQ	BLQ	BLQ	0.81	BLQ	BLQ
10.11.2023	51	32	1.5	10.1	BLQ	1.50	1.07	BLQ	0.82	BLQ	BLQ
11.11.2023	156	83	13.8	37.7	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
12.11.2023	355	272	14.7	55.4	BLQ	BLQ	BLQ	0.05	BLQ	0.16	BLQ
13.11.2023	347	263	14.0	64.3	BLQ	BLQ	BLQ	0.09	BLQ	0.27	BLQ
14.11.2023	333	192	34.3	57.6	BLQ	BLQ	BLQ	0.05	BLQ	0.12	BLQ
15.11.2023	399	240	26.0	51.5	BLQ	BLQ	BLQ	BLQ	BLQ	0.16	BLQ
16.11.2023	309	176	15.0	30.8	BLQ	BLQ	BLQ	0.07	BLQ	0.56	BLQ
17.11.2023	274	133	12.2	21.4	BLQ	BLQ	BLQ	BLQ	BLQ	0.32	BLQ
18.11.2023	217	106	4.9	10.8	BLQ	BLQ	BLQ	0.07	BLQ	0.19	BLQ
19.11.2023	191	95	5.0	20.8	BLQ	BLQ	BLQ	0.07	0.86	0.15	BLQ

Name of the location	Municipal Committee Bawal, Rewari										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	408	307	8.05	53.3	BLQ	BLQ	BLQ	0.06	0.07	0.46	BLQ
06.11.2023	487	355	63.2	29.05	BLQ	BLQ	BLQ	BLQ	0.34	0.05	BLQ
07.11.2023	395	295	28	68	BLQ	BLQ	BLQ	0.11	0.05	1.03	BLQ
08.11.2023	417	349	18.5	55	BLQ	BLQ	BLQ	0.06	BLQ	0.12	BLQ
09.11.2023	377	295	9.9	35.7	BLQ	BLQ	BLQ	BLQ	0.72	0.05	BLQ
10.11.2023	68	41	4.4	21.4	BLQ	1.60	BLQ	BLQ	0.66	BLQ	BLQ
11.11.2023	175	99	19.3	81.4	BLQ	BLQ	BLQ	BLQ	BLQ	0.10	BLQ
12.11.2023	395	287	14.0	64.9	BLQ	BLQ	BLQ	BLQ	BLQ	0.13	BLQ
13.11.2023	251	146	20.0	61.0	BLQ	BLQ	BLQ	0.09	BLQ	0.26	BLQ
14.11.2023	343	209	12	77	BLQ	BLQ	BLQ	0.05	BLQ	0.11	BLQ
15.11.2023	295	178	21.8	75.5	BLQ	BLQ	BLQ	0.05	BLQ	0.15	BLQ
16.11.2023	308	164	18.0	52.0	BLQ	BLQ	BLQ	0.06	BLQ	0.41	BLQ
17.11.2023	302	*	15.0	75.5	BLQ	BLQ	BLQ	BLQ	BLQ	0.24	BLQ
18.11.2023	271	*	10.4	28.1	BLQ	BLQ	BLQ	0.05	BLQ	0.14	BLQ
19.11.2023	290	*	9.1	41.0	BLQ	BLQ	BLQ	0.07	0.71	0.14	BLQ

19. Rohtak

- **Latitude & Longitude :** 28.8955° N, 76.6066° E
- **Climate /Meteorology :** Rohtak has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 30.2°C (86.36°F) and it is 4.23% higher than India's averages. Rohtak typically receives about 10.3 millimeters (0.41 inches) of precipitation and has 18.18 rainy days (4.98% of the time) annually.
- **Population :** 1058683
- **Major Land use :** The major portion of land is covered under agriculture which is 92.26%. The cover is 2.63%. Rohtak is accommodating 3.35% of the total built up of Haryana region.

Name of location: HSPCB MDU ROHTAK CAAQMS										
Date	Regulatory parameters						Proposed New Parameters			
	PM ₁₀ (ug/ m ³)	PM _{2.5} (ug/ m ³)	SO ₂ (ug/ m ³)	NO ₂ (ug/ m ³)	Metals in PM ₁₀			Metals/Elements in PM _{2.5}		
					Pb (ug/ m ³)	Ni (ug/ m ³)	As (ug/ m ³)	Al (ug/ m ³)	Ba (ug/ m ³)	Fe (ug/ m ³)
05.11.2023	n/a	191.42	5.96	58.20	n/a	n/a	n/a	n/a	n/a	n/a
06.11.2023	n/a	197.40	5.29	52.10	n/a	n/a	n/a	n/a	n/a	n/a
07.11.2023	n/a	200.26	5.67	48.44	n/a	n/a	n/a	n/a	n/a	n/a
08.11.2023	n/a	174.51	7.40	48.30	n/a	n/a	n/a	n/a	n/a	n/a
09.11.2023	n/a	259.79	9.88	42.83	n/a	n/a	n/a	n/a	n/a	n/a
10.11.2023	n/a	45.00	7.17	38.45	n/a	n/a	n/a	n/a	n/a	n/a
11.11.2023	n/a	53.56	7.13	38.39	n/a	n/a	n/a	n/a	n/a	n/a
12.11.2023	n/a	203.33	9.51	39.28	n/a	n/a	n/a	n/a	n/a	n/a
13.11.2023	n/a	207.50	6.36	39.52	n/a	n/a	n/a	n/a	n/a	n/a
14.11.2023	n/a	192.05	5.43	38.32	n/a	n/a	n/a	n/a	n/a	n/a
15.11.2023	n/a	240.14	3.52	37.59	n/a	n/a	n/a	n/a	n/a	n/a
16.11.2023	n/a	208.41	5.67	38.88	n/a	n/a	n/a	n/a	n/a	n/a
17.11.2023	n/a	147.21	5.57	32.33	n/a	n/a	n/a	n/a	n/a	n/a
18.11.2023	n/a	127.63	7.88	28.55	n/a	n/a	n/a	n/a	n/a	n/a
19.11.2023	n/a	133.49	6.67	28.48	n/a	n/a	n/a	n/a	n/a	n/a

20. Sirsa

- **Latitude & Longitude :** 29.5321° N, 75.0318° E
- **Climate /Meteorology :** Located at an elevation of 201.58 meters (661.35 feet) above sea level, Sirsa has a Subtropical steppe climate (Classification: BSh). The district's yearly temperature is 29.94°C (85.89°F) and it is 3.97% higher than India's averages. Sirsa typically receives about 9.35 millimeters (0.37 inches) of precipitation and has 14.1 rainy days (3.86% of the time) annually.
- **Population :** 1295189
- **Major Land use :** Agriculture.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Ambedkar Chowk, Sirsa	Residential	29.533642	75.033775
2	Vivek Eye Hospital, Sirsa	Commercial	29.531721	75.034860

Result of Noise level Monitoring

Location: Ambedkar Chowk, Sirsa Residential (Latitude: 29.533642 Longitude: 75.033775)	Pre Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	30.5	40.7	35.60	36.7	49.3	43.00
19:00 to 20:00 Hr	30.3	55.8	43.05	28.8	56.8	42.80
20:00 to 21:00 Hr	28.3	60.6	44.45	29.1	60.4	44.75
21:00 to 22:00 Hr	30.4	55.2	42.80	27.3	62.9	45.10
22:00 to 23:00 Hr	27.7	50.8	39.10	26.2	60.6	43.40
23:00 to 24:00 Hr	27.9	42.5	35.20	25.3	53.9	39.6

Location: Vivek Eye Hospital, Sirsa Commercial (Latitude: 29.531721 Longitude : 75.034860)	Pre Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	34.5	48.1	41.3	38.6	62.5	50.55
19:00 to 20:00 Hr	29.6	56.5	43.05	39.8	62.9	51.35
20:00 to 21:00 Hr	31.4	50.8	41.1	38.9	66.3	52.6
21:00 to 22:00 Hr	31.9	58.1	45.0	27.5	72.9	50.2
22:00 to 23:00 Hr	30.7	57.3	44.0	40.1	70.6	55.35
23:00 to 24:00 Hr	34.9	44.5	39.7	38.2	58.7	48.45

21. Sonipat

- **Latitude & Longitude :** 28.9931° N, 77.0151° E
- **Climate /Meteorology :** Located at an elevation of 225.23 meters (738.94 feet) above sea level, Sonipat has a Humid subtropical, dry winter climate. The district's yearly temperature is 29.05°C (84.29°F) and it is 3.08% higher than India's averages. Sonipat typically receives about 13.04 millimeters (0.51 inches) of precipitation and has 19.09 rainy days (5.23% of the time) annually.
- **Population :** 14,50,001
- **Major Land use :** Agriculture and Industrial.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Star Complex, Opp. General Hospital, Delhi Road, Sonipat	Commercial	28.989499	77.035815
2	House No. 134, Sector-15, Sonipat	Residential	29.004389	77.037492

Result of Noise level Monitoring

Location: Star Complex, Opp. General Hospital, Delhi Road, Sonipat, Commercial (Latitude 28.989499 Longitude 77.035815)	Pre Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time Duration						
18:00 to 19:00 Hr	42.3	69.1	60.7	52.9	88.7	69.8
19:00 to 20:00 Hr	46.8	72.9	58.6	55.1	91.8	71.1
20:00 to 21:00 Hr	40.7	64.2	58.1	56.9	96.2	69.2
21:00 to 22:00 Hr	36.6	63.6	55.8	57.9	97.2	68.4
22:00 to 23:00 Hr	32.8	58.8	46.7	56.9	93.4	69.8
23:00 to 24:00 Hr	32.1	61.9	45.1	52.3	88.9	67.8

Location: House No. 134, Sector-15, Sonipat, Residential (Latitude 29.004389 Longitude 77.037492)	Pre Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time Duration						
18:00 to 19:00 Hr	40.5	65.9	56.2	52.8	80.7	61.9
19:00 to 20:00 Hr	36.8	66.2	50.8	54.1	81.1	63.9
20:00 to 21:00 Hr	34.7	58.5	45.9	52.3	81.8	65.7
21:00 to 22:00 Hr	33.9	58.7	42.5	50.1	80.7	62.6
22:00 to 23:00 Hr	33.4	58.1	39.3	44.4	71.2	59.1
23:00 to 24:00 Hr	33.8	57.3	37.8	43.3	70.2	55.6

Results of Ambient Air Quality Monitoring

Name of the location	House No.134 Sector-15 Sonipat										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	255.54	35.61	3.6002 52525	6.8693 64375	BLQ	BLQ	BLQ	0.07	0.05	0.54	BLQ
06.11.2023	239.06	35.36	3.5662 87879	7.19821 6925	BLQ	BLQ	BLQ	BLQ	0.36	BLQ	BLQ
07.11.2023	310.47	39.87	4.56824 4949	7.23475 6098	BLQ	BLQ	BLQ	0.11	BLQ	1.27	BLQ
08.11.2023	310.47	40.06	4.72108 5859	6.17512 0103	BLQ	BLQ	BLQ	0.07	BLQ	0.16	BLQ
09.11.2023	344.34	53.33	4.99280 303	6.32127 6792	BLQ	BLQ	BLQ	BLQ	0.87	0.05	BLQ
10.11.2023	354.53	53.33	5.24753 7879	7.01552 1064	BLQ	1.64	1.39	BLQ	0.75	BLQ	BLQ
11.11.2023	373.06	66.56	5.84191 9192	8.51362 7125	BLQ	BLQ	BLQ	BLQ	BLQ	0.18	BLQ
12.11.2023	555.32	71.11	6.43630 0505	9.86557 6497	BLQ	BLQ	BLQ	BLQ	BLQ	0.16	BLQ
13.11.2023	476.43	48.66	6.48724 7475	9.31748 8914	BLQ	BLQ	BLQ	0.10	BLQ	0.30	BLQ
14.11.2023	316.33	44.55	6.07967 1717	8.00207 8714	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
15.11.2023	317.91	48.62	5.79097 2222	7.23475 6098	BLQ	BLQ	BLQ	BLQ	BLQ	0.17	BLQ
16.11.2023	322.72	44.41	5.19659 0909	6.02896 3415	BLQ	BLQ	BLQ	0.07	BLQ	0.67	BLQ
17.11.2023	327.93	40.06	4.65315 6566	6.06550 2587	BLQ	BLQ	BLQ	BLQ	BLQ	0.37	BLQ
18.11.2023	304.79	35.39	4.89090 9091	5.48087 5831	BLQ	BLQ	BLQ	BLQ	BLQ	0.15	BLQ
19.11.2023	281.79	47.56	3.99084	5.04240	BLQ	BLQ	BLQ	0.09	1.10	0.22	BLQ

Name of the location	Star Complex, opp.General Hospital, Delhi Road, Sonipat										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	260.86	35.39	3.75309 3434	7.08859 9409	BLQ	BLQ	BLQ	0.09	0.08	0.79	BLQ
06.11.2023	241.65	31.26	3.73611 1111	6.75974 6859	BLQ	BLQ	BLQ	BLQ	0.49	0.06	BLQ
07.11.2023	247.12	31.16	4.82297 9798	7.60014 782	BLQ	BLQ	BLQ	0.12	BLQ	1.40	BLQ
08.11.2023	284.77	48.73	4.90789 1414	6.50397 2653	BLQ	BLQ	BLQ	0.09	BLQ	0.21	BLQ
09.11.2023	361.31	53.50	5.14564 3939	6.75974 6859	BLQ	BLQ	BLQ	BLQ	1.17	0.07	BLQ
10.11.2023	365.17	57.78	5.53623 7374	7.41745 1959	BLQ	1.77	1.39	BLQ	1.11	0.07	BLQ
11.11.2023	463.22	71.23	6.13061 8687	8.98863 6364	BLQ	BLQ	BLQ	BLQ	BLQ	0.18	BLQ
12.11.2023	529.14	88.68	6.50422 9798	10.2675 0739	BLQ	BLQ	BLQ	0.07	BLQ	0.26	BLQ
13.11.2023	417.00	66.35	6.725	9.60980 2291	BLQ	BLQ	BLQ	0.12	0.05	0.40	BLQ
14.11.2023	303.63	53.21	6.24949 4949	8.25785 2919	BLQ	BLQ	BLQ	0.08	BLQ	0.22	BLQ
15.11.2023	306.74	57.69	5.85890 1515	7.49053 0303	BLQ	BLQ	BLQ	0.06	BLQ	0.22	BLQ
16.11.2023	301.00	53.25	5.29848 4848	6.39435 5137	BLQ	BLQ	BLQ	0.11	0.05	0.86	BLQ
17.11.2023	280.49	35.50	4.75505 0505	6.24819 8448	BLQ	BLQ	BLQ	0.07	BLQ	0.52	BLQ
18.11.2023	258.87	35.50	5.02676 7677	5.73665 0037	BLQ	BLQ	BLQ	0.08	0.05	0.27	BLQ
19.11.2023	233.52	30.99	4.14368	5.33471	BLQ	1.01	BLQ	0.08	1.02	0.18	BLQ

22. Yamunanagr

- **Latitude & Longitude :** 30.1290° N, 77.2674° E
- **Climate /Meteorology :** Yamunanagar has a Humid subtropical, dry winter climate (Classification: Cwa). The district's yearly temperature is 28.02°C (82.44°F) and it is 2.05% higher than India's averages. Yamunanagar typically receives about 26.68 millimeters (1.05 inches) of precipitation and has 28.53 rainy days (7.82% of the time) annually.
- **Population :** 12,14,162
- **Major Land use :** Agriculture.

Description of Noise Monitoring Sites

Sr. No.	Name of the Location	Zone	Latitude	Longitude
1	Panchayat Bhawan, Yamuna Nagar	Commercial	30.1475553	77.2898228
2	Office Building of Haryana State Pollution Control Board, Yamunanagar Region at SCO-131, Sector-17, Jagadhri	Residential	30.1551430	77.2930402

Result of Noise level Monitoring

Location: Panchayat Bhawan, Yamuna Nagar, Residential (Latitude: 30.1475553 Longitude : 77.2898228)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmax	Leq (dB(A))	Lmin	Lmax	Leq (dB(A))
	18:00 to 19:00 Hr	47.4	69.0	58.2	52.0	68.3	60.15
	19:00 to 20:00 Hr	40.0	76.0	58.0	55.0	69.1	62.05
	20:00 to 21:00 Hr	38.0	82.0	60.0	58.0	70.2	64.1
	21:00 to 22:00 Hr	49.0	72.8	60.9	56.2	68.7	62.45
	22:00 to 23:00 Hr	48.0	70.6	59.3	58.4	69.2	63.8
	23:00 to 24:00 Hr	38.0	68.4	53.2	50.0	66.0	58.0

Location: Office Building of Haryana State Pollution Control Board, Yamunanagar Region at SCO-131, Sector-17, Jagadhri, Commercial (Latitude:-30.1551430 Longitude :- 77.2930402)	Pre- Deepawali Day (06.11.2023)			Deepawali Day (12.11.2023)			
	Time Duration	Lmin	Lmax	Leq (dB(A))	Lmin	Lmax	Leq (dB(A))
	18:00 to 19:00 Hr	35.6	48.6	59.9	39.6	61.5	50.55
	19:00 to 20:00 Hr	28.2	56.1	42.15	40.8	62.8	51.8
	20:00 to 21:00 Hr	32.8	50.0	41.4	37.9	67.4	52.65
	21:00 to 22:00 Hr	31.2	57.4	44.3	26.4	71.8	49.1
	22:00 to 23:00 Hr	31.8	56.2	44.0	40.2	70.6	55.4
	23:00 to 24:00 Hr	35.9	43.8	39.85	38.2	59.2	48.7

Results of Ambient Air Quality Monitoring

Name of the location	HSPCB Office Building, Yamuna Nagar										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	183.54	24.95	4.016319444	6.792632114	BLQ	BLQ	BLQ	0.07	BLQ	0.48	BLQ
06.11.2023	162.17	24.95	4.053680556	6.913211382	BLQ	BLQ	BLQ	BLQ	0.32	BLQ	BLQ
07.11.2023	166.38	29.11	3.960277778	6.953404472	BLQ	BLQ	BLQ	0.10	BLQ	1.09	BLQ
08.11.2023	169.43	24.95	3.960277778	7.114176829	BLQ	BLQ	BLQ	0.06	BLQ	0.12	BLQ
09.11.2023	197.53	29.11	4.035	7.395528455	BLQ	BLQ	BLQ	BLQ	0.75	BLQ	BLQ
10.11.2023	213.81	41.58	4.016319444	7.234756098	BLQ	1.50	1.18	BLQ	0.73	BLQ	BLQ
11.11.2023	220.49	45.74	4.614097222	7.516107724	BLQ	BLQ	BLQ	BLQ	BLQ	0.10	BLQ
12.11.2023	252.17	45.74	5.286597222	8.922865854	BLQ	BLQ	BLQ	0.05	BLQ	0.16	BLQ
13.11.2023	224.59	37.43	4.0563680556	7.596493902	BLQ	BLQ	BLQ	0.08	BLQ	0.25	BLQ
14.11.2023	194.15	29.11	3.904236111	7.395528455	BLQ	BLQ	BLQ	BLQ	BLQ	0.10	BLQ
15.11.2023	175.20	24.95	3.848194444	6.953404472	BLQ	BLQ	BLQ	BLQ	BLQ	0.14	BLQ
16.11.2023	159.75	24.95	3.754791667	6.993597561	BLQ	BLQ	BLQ	0.06	BLQ	0.52	BLQ
17.11.2023	154.96	20.79	3.69875	6.832825203	BLQ	BLQ	BLQ	BLQ	BLQ	0.29	BLQ
18.11.2023	151.21	24.95	3.717430556	6.953404472	BLQ	BLQ	BLQ	BLQ	BLQ	0.12	BLQ
19.11.2023	159.28	16.63	3.736111111	6.752439024	BLQ	BLQ	BLQ	0.06	0.72	0.11	BLQ

Results for ambient air monitoring for CAAQMS of 6 districts

Name of the location	Govt polytechnic Ambala city CAAQMS										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	171.68	80.32	21.7	9.57							
06.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	207.71	97.17	25.49	136.93							
07.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	130.7	61.14	22.04	123.94							
08.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	210.89	98.65	11.05	123.03							
09.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	193.84	90.69	10.03	134.07							
10.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	78.43	36.69	15.15	97.93							
11.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	52.7	24.65	17.12	93.73							
12.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	100.07	46.82	17.78	94.47							
13.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	133.46	62.42	24.86	96.49							
14.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	172.31	80.61	21.82	102.26							
15.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	95.42	76.8	19.73	111.07							
16.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	145	80.36	24.55	132.04							
17.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	109.35	69.52	16.37	124.12							
18.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	154.08	81.76	12.95	96.28							
19.11.2023					n/a	n/a	n/a	n/a	n/a	n/a	n/a
	121.43	77.14	20.43	131.89							

Name of the location	H.B. Colony Bhiwani CAAQMS										
Date	Regulatory Parameters							Additional Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metal/Elements in PM _{2.5}			
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	294.31	178.43	16.05	15.51	n/a	n/a	n/a	n/a	n/a	n/a	n/a
06.11.2023	300.93	187.28	29.91	22.45	n/a	n/a	n/a	n/a	n/a	n/a	n/a
07.11.2023	328.52	302.12	16.85	21.94	n/a	n/a	n/a	n/a	n/a	n/a	n/a
08.11.2023	381.09	225.93	11.16	21.66	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09.11.2023	362.81	283.49	15.08	15.91	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10.11.2023	73.73	55.86	16.92	11.83	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11.11.2023	92.98	82.25	14.64	10.68	n/a	n/a	n/a	n/a	n/a	n/a	n/a
12.11.2023	178.80	117.78	12.33	12.49	n/a	n/a	n/a	n/a	n/a	n/a	n/a
13.11.2023	284.21	113.83	11.05	11.30	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14.11.2023	294.73	189.04	15.06	15.09	n/a	n/a	n/a	n/a	n/a	n/a	n/a
15.11.2023	340.43	268.65	9.11	15.10	n/a	n/a	n/a	n/a	n/a	n/a	n/a
16.11.2023	259.59	209.07	9.04	14.07	n/a	n/a	n/a	n/a	n/a	n/a	n/a
17.11.2023	292.97	191.34	9.10	14.16	n/a	n/a	n/a	n/a	n/a	n/a	n/a
18.11.2023	205.48	127.95	12.99	12.18	n/a	n/a	n/a	n/a	n/a	n/a	n/a
19.11.2023	183.81	115.41	8.25	11.31	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Name of Location- Sector 12 Karnal CAAQMS											
Date	Regulatory parameters							Proposed New Parameters			
	PM ₁₀ (ug/m ³)	PM _{2.5} (ug/m ³)	SO ₂ (ug/m ³)	NO ₂ (ug/m ³)	Metals in PM ₁₀			Metals/ Elements in PM _{2.5}			
					Pb (ug/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (ug/m ³)	Ba (ug/m ³)	Fe (ug/m ³)	Sr (ug/m ³)
05.11.2023	186.22	132.21	66.62	7.98	n/a	n/a	n/a	n/a	n/a	n/a	n/a
06.11.2023	209.43	129.62	50.53	7.98	n/a	n/a	n/a	n/a	n/a	n/a	n/a
07.11.2023	199.03	131.40	60.43	7.98	n/a	n/a	n/a	n/a	n/a	n/a	n/a
08.11.2023	216.55	160.94	64.62	8.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09.11.2023	222.88	150.00	68.44	8.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10.11.2023	149.05	115.49	70.27	7.99	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11.11.2023	149.05	115.49	70.60	5.98	n/a	n/a	n/a	n/a	n/a	n/a	n/a
12.11.2023	193.73	163.95	47.72	7.99	n/a	n/a	n/a	n/a	n/a	n/a	n/a
13.11.2023	116.91	118.59	66.79	8.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14.11.2023	204.56	136.11	69.22	8.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
15.11.2023	160.62	100.62	72.59	8.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
16.11.2023	161.46	90.82	76.68	7.98	n/a	n/a	n/a	n/a	n/a	n/a	n/a
17.11.2023	128.30	60.65	80.45	7.98	n/a	n/a	n/a	n/a	n/a	n/a	n/a
18.11.2023	143.09	68.73	70.29	8.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
19.11.2023	151.20	74.74	11.12	8.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Name of location: HSPCB MDU ROHTAK CAAQMS										
Date	Regulatory parameters							Proposed New Parameters		
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metals/Elements in PM _{2.5}		
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
05.11.2023	n/a	191.42	5.96	58.20	n/a	n/a	n/a	n/a	n/a	n/a
06.11.2023	n/a	197.40	5.29	52.10	n/a	n/a	n/a	n/a	n/a	n/a
07.11.2023	n/a	200.26	5.67	48.44	n/a	n/a	n/a	n/a	n/a	n/a
08.11.2023	n/a	174.51	7.40	48.30	n/a	n/a	n/a	n/a	n/a	n/a
09.11.2023	n/a	259.79	9.88	42.83	n/a	n/a	n/a	n/a	n/a	n/a
10.11.2023	n/a	45.00	7.17	38.45	n/a	n/a	n/a	n/a	n/a	n/a
11.11.2023	n/a	53.56	7.13	38.39	n/a	n/a	n/a	n/a	n/a	n/a
12.11.2023	n/a	203.33	9.51	39.28	n/a	n/a	n/a	n/a	n/a	n/a
13.11.2023	n/a	207.50	6.36	39.52	n/a	n/a	n/a	n/a	n/a	n/a
14.11.2023	n/a	192.05	5.43	38.32	n/a	n/a	n/a	n/a	n/a	n/a
15.11.2023	n/a	240.14	3.52	37.59	n/a	n/a	n/a	n/a	n/a	n/a
16.11.2023	n/a	208.41	5.67	38.88	n/a	n/a	n/a	n/a	n/a	n/a
17.11.2023	n/a	147.21	5.57	32.33	n/a	n/a	n/a	n/a	n/a	n/a
18.11.2023	n/a	127.63	7.88	28.55	n/a	n/a	n/a	n/a	n/a	n/a
19.11.2023	n/a	133.49	6.67	28.48	n/a	n/a	n/a	n/a	n/a	n/a

Name of Location- Panchayat Bhawan, Yamuna Nagar CAAQMS											
Date	Regulatory parameters							Proposed New Parameters			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	Metals in PM ₁₀			Metals/ Elements in PM _{2.5}			
					Pb (ug/m ³)	Ni (ng/m ³)	As (ng/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
05.11.2023	98.78	56.16	5.26	09.97	n/a	n/a	n/a	n/a	n/a	n/a	n/a
06.11.2023	115.85	71.23	17.32	14.52	n/a	n/a	n/a	n/a	n/a	n/a	n/a
07.11.2023	152.22	93.56	4.82	16.54	n/a	n/a	n/a	n/a	n/a	n/a	n/a
08.11.2023	243.03	122.29	14.12	18.45	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09.11.2023	245.65	114.00	6.23	08.49	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10.11.2023	146.87	82.88	6.32	09.24	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11.11.2023	94.85	53.53	44.67	12.16	n/a	n/a	n/a	n/a	n/a	n/a	n/a
12.11.2023	187.66	105.90	11.85	23.14	n/a	n/a	n/a	n/a	n/a	n/a	n/a
13.11.2023	190.92	107.74	16.38	31.45	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14.11.2023	168.67	95.18	5.47	18.48	n/a	n/a	n/a	n/a	n/a	n/a	n/a
15.11.2023	183.00	103.29	6.69	21.46	n/a	n/a	n/a	n/a	n/a	n/a	n/a
16.11.2023	190.37	107.43	3.83	7.38	n/a	n/a	n/a	n/a	n/a	n/a	n/a
17.11.2023	156.27	88.19	3.71	10.92	n/a	n/a	n/a	n/a	n/a	n/a	n/a
18.11.2023	183.25	88.43	15.84	21.54	n/a	n/a	n/a	n/a	n/a	n/a	n/a
19.11.2023	140.11	67.04	5.03	13.46	n/a	n/a	n/a	n/a	n/a	n/a	n/a