



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Paryavas Bhawan, North Block, Sector-19
Nava Raipur, Atal Nagar (C.G.) 492002

Email address-hocecb@gmail.com

Nava Raipur, Atal Nagar Dated 10/1/2019

No. 9155/HO/CECB/2012019

To,

The Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
New Delhi - 110 032

Sub :- Monitoring of Ambient Air & Noise during Deepawali festival 2019 reg.

Ref :- 1. CPCB letter no. A-21016/1/8 -Mon./6022 Dated 02/09/2019
2. Zonal Office (Central), Bhopal, Central Pollution Control Board letter no. RD/BPL/Diwali Monitoring/2019-20/168 dated 04.09.2019

----:00:----

Please refer to your letter on the above subject. In this connection, Chhattisgarh Environment Conservation Board has taken appropriate action as per the provisions of Noise Pollution (Regulation & Control) Rules, 2000 and instructions issued by MoEF-CC and Central Pollution Control Board, Delhi from time to time.

Towards control of noise pollution, CECB has issued notices from time to time for banning of firecrackers in sensitive areas, use of loud speakers, pressure-horns or multi tonned horns in residential and sensitive areas.

Decrease in dust concentration and noise level has been observed in monitoring done by CECB, as shown in attached reports. CECB has monitored Noise and Ambient Air Quality in the all Seven (07) Regional Offices on 21st October, 27th October and 28th October 2019, including Deepawali day. Raipur Regional office has conducted Noise and Ambient Air Monitoring from 20th October to 3rd of November 2019. Monitoring reports with Graphs of the all Seven Regional Office is enclosed here with for your kind information please (Annexure-I).

Encl :- As above.

Member Secretary

Chhattisgarh Environment Conservation Board,
Nava Raipur, Atal Nagar (C.G.)

Nava Raipur, Atal Nagar, Raipur, Dated 10/1/2019

Endt. No. 9156 No. /HO/CECB/2019
Copy to :- Zonal Officer, Zonal Office, Central Pollution Control Board, 3rd floor, Sahakar Bhavan, North TT Nagar, Bhopal for information.

Member Secretary

Chhattisgarh Environment Conservation Board,
Nava Raipur, Atal Nagar, Raipur (C.G.)

O/C

Comparative data of Ambient Air Quality with Sound Level in dB(A) during Deepawali Festival 2019
(Date 27.10.2019)

Regional Office	Location	(24 Hourly) Avg. PM ₁₀ (µg/m ³)	(24 Hourly) Avg. PM _{2.5} (µg/m ³)	(24 Hourly) Avg. SO ₂ (µg/m ³)	(24 Hourly) Avg. NO _x (µg/m ³)	Noise Level in dB (A) (between 18.00 Hrs- 24.00 Hrs)	
						Max.	Min.
Raipur	(i) AIIMS, Raipur	60.43	37.59	12.30	23.83	74.2	48.2
	(ii) District Hospital, Pandari	68.37	48.89	18.32	27.86	-	-
	(iii) Sankar Nagar, Raipur	-	-	-	-	79.5	57.8
	(iv) City kotwali	76.19	52.68	20.69	29.87	91.4	50.0

Comparative data of Ambient Air Quality with Sound Level in dB(A) during Deepawali Festival 2019
(Date 27.10.2019)

Regional Office	Location	(24 Hourly) Avg. PM ₁₀ (µg/m ³)	(24 Hourly) Avg. PM _{2.5} (µg/m ³)	(24 Hourly) Avg. SO ₂ (µg/m ³)	(24 Hourly) Avg. NO _x (µg/m ³)	Noise Level in dB (A) (between 18.00 Hrs- 24.00 Hrs)	
						Max.	Min.
Raigarh	(i) RO CSOB Raigarh (Residential Area)	111.21	35.00	21.84	21.04	88.7	68.9
	(ii) Beladula, Kaigarh (Residential Area)	115.85	37.91	18.40	25.47	-	-

Comparative data of Ambient Air Quality with Sound Level in dB(A) during Deepawali Festival 2019
(Date 27.10.2019)

Regional Office	Location	(24 Hourly) Avg. PM ₁₀ (µg/m ³)	(24 Hourly) Avg. PM _{2.5} (µg/m ³)	(24 Hourly) Avg. SO ₂ (µg/m ³)	(24 Hourly) Avg. NO _x (µg/m ³)	Noise Level in dB (A) (between 18.00 Hrs- 24.00 Hrs)	
						Max.	Min.
Korba	(i) Darril Jannunipal Korba	96.66	78.00	21.58	32.85	78.6	58.9
	(ii) ITL, Rampur, Korba	113.66	83.0	24.38	33.48	82.5	59.4
	(iii) Geetanjali Bhawan, Korba	189.00	105.00	28.11	34.67	92.4	66.9

Comparative data of Ambient Air Quality with Sound Level in dB(A) during Deepawali Festival 2019
(Date 27.10.2019)

Regional Office	Location	(24 Hourly) Avg. PM ₁₀ (µg/m ³)	(24 Hourly) Avg. PM _{2.5} (µg/m ³)	(24 Hourly) Avg. SO ₂ (µg/m ³)	(24 Hourly) Avg. NO _x (µg/m ³)	Noise Level in dB (A) (between 18.00 Hrs- 24.00 Hrs)	
						Max.	Min.
Ambikapur	(i) Housing Board Colony Nannakala	56.10	38.40	16.08	22.33	78.1	61.7
	(ii) Regional Office CEGB, Gangapur	50.26	35.90	14.96	20.46	74.1	58.9

Comparative data of Ambient Air Quality with Sound Level in dB(A) during Deepawali Festival 2019
(Date 27.10.2019)

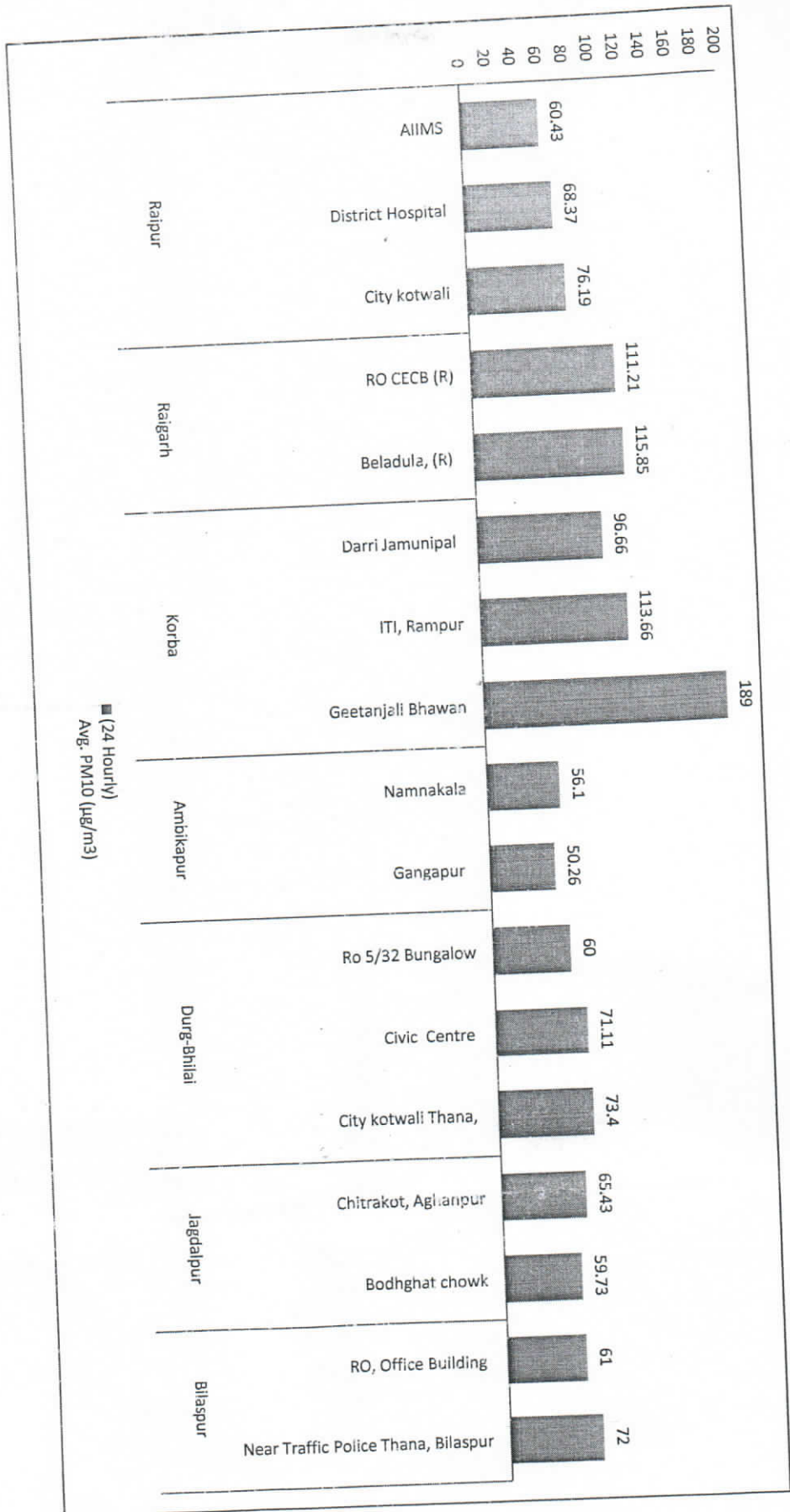
Regional Office	Location	(24 Hourly) Avg. PM ₁₀ (µg/m ³)	(24 Hourly) Avg. PM _{2.5} (µg/m ³)	(24 Hourly) Avg. SO ₂ (µg/m ³)	(24 Hourly) Avg. NO _x (µg/m ³)	Noise Level in dB (A) (between 18.00 Hrs- 24.00 Hrs)	
						Max.	Min.
Durg-Bhilai	(i) Ro 5/32 Bungalow, Bhilai	60	34.30	8.92	11.32	73.16	56.24
	(ii) Civic Centre Bhilai Distt. Durg	71.11	32.57	14.10	15.89	81.39	65.90
	(iii) City kotwali Thana, Durg	73.40	44.26	13.42	15.17	86.43	69.82

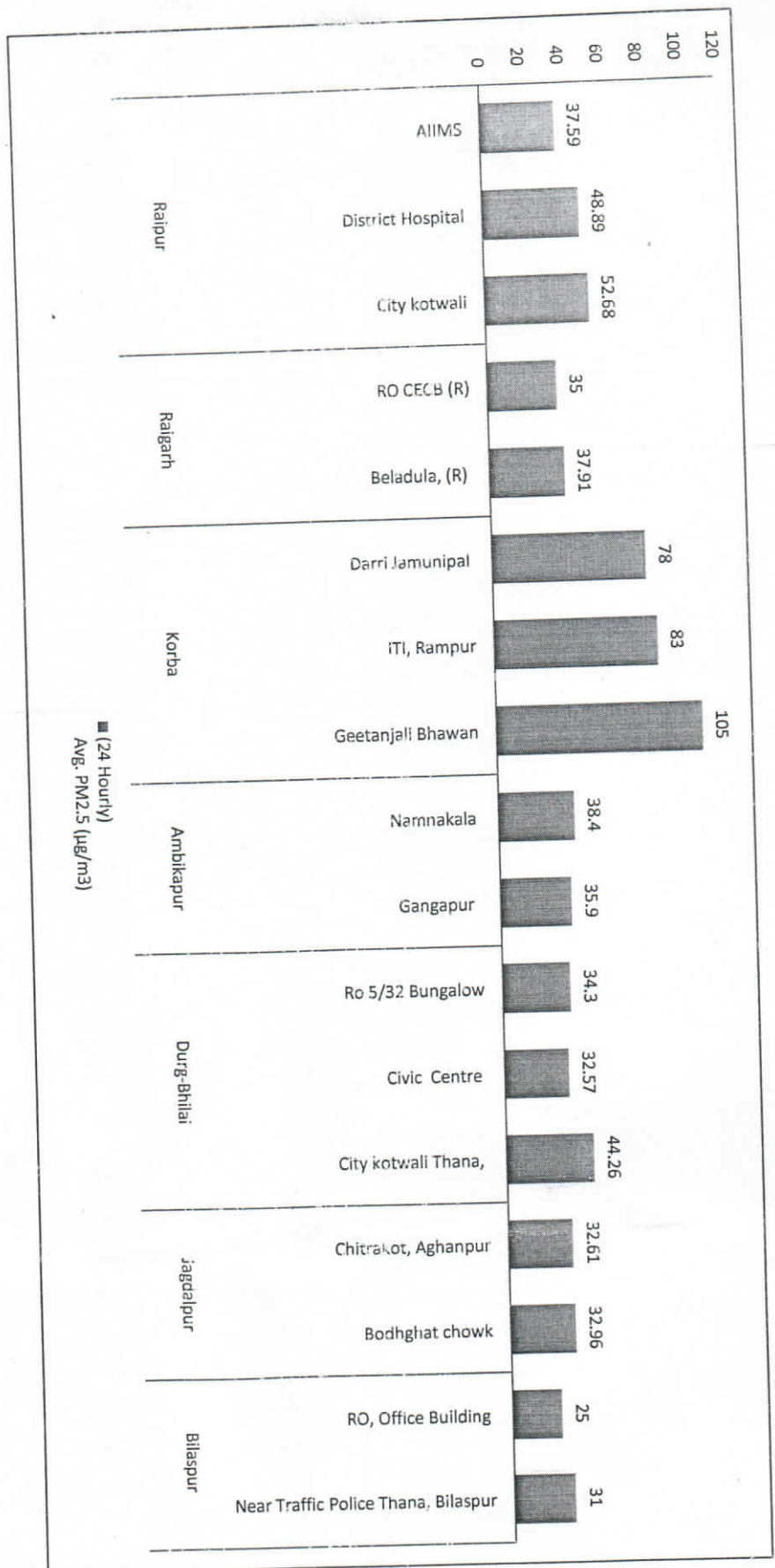
Comparative data of Ambient Air Quality with Sound Level in dB(A) during Deepawali Festival 2019
(Date 27.10.2019)

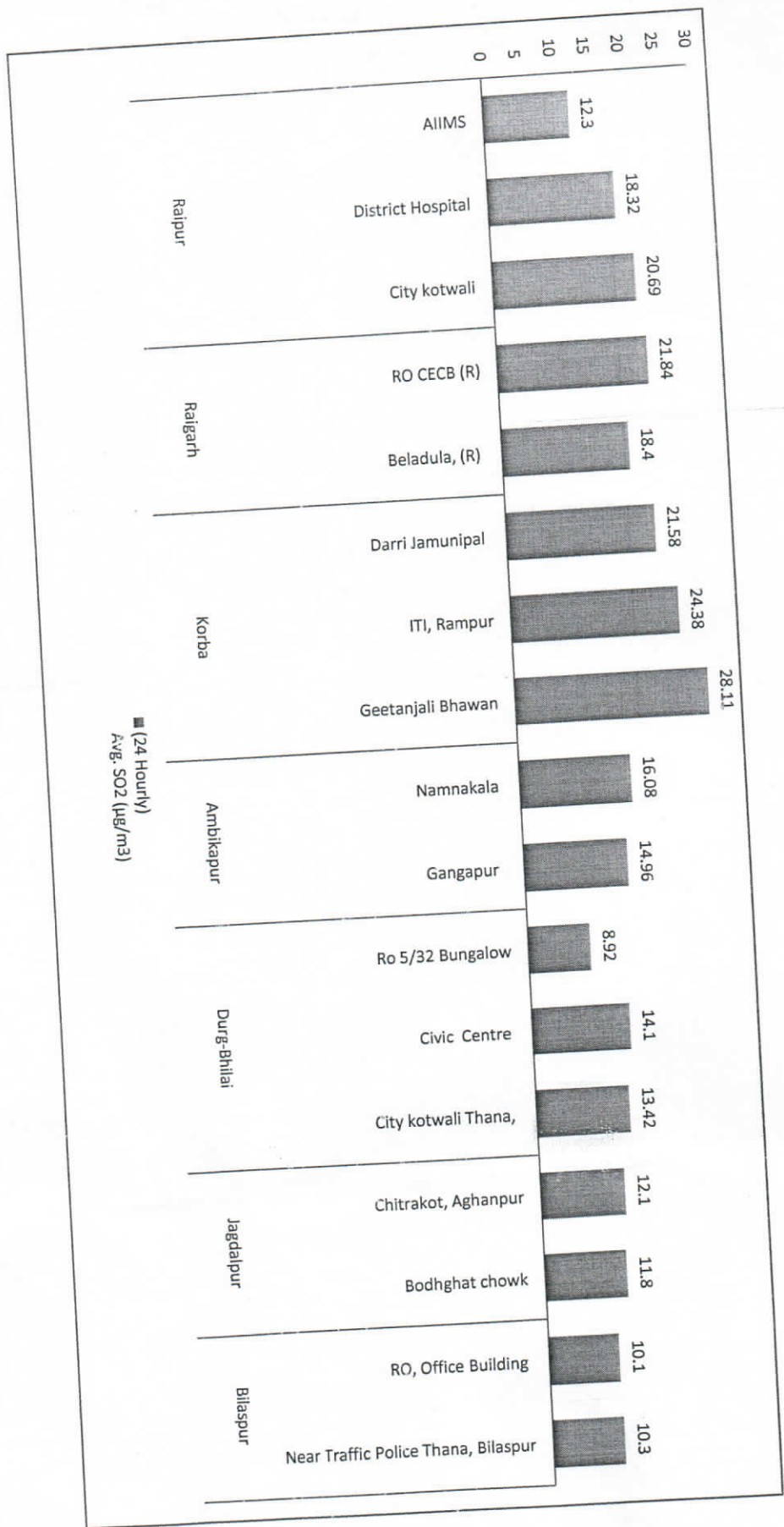
Regional Office	Location	(24 Hourly) Avg. PM ₁₀ ($\mu\text{g}/\text{m}^3$)	(24 Hourly) Avg. PM _{2.5} ($\mu\text{g}/\text{m}^3$)	(24 Hourly) Avg. SO ₂ ($\mu\text{g}/\text{m}^3$)	(24 Hourly) Avg. NO _x ($\mu\text{g}/\text{m}^3$)	Noise Level in dB (A) (between 18.00 Hrs- 24.00 Hrs)	
						Max.	Min.
Jagdalpur	Chirakot road	65.43	32.61	12.1	15.4	63.5	49.7
	Aghanpur	59.73	32.96	11.8	16.1	53.8	42.3
	Bodhghat chowk						

Comparative data of Ambient Air Quality with Sound Level in dB(A) during Deepawali Festival 2019
(Date 27.10.2019)

Regional Office	Location	(24 Hourly) Avg. PM ₁₀ ($\mu\text{g}/\text{m}^3$)	(24 Hourly) Avg. PM _{2.5} ($\mu\text{g}/\text{m}^3$)	(24 Hourly) Avg. SO ₂ ($\mu\text{g}/\text{m}^3$)	(24 Hourly) Avg. NO _x ($\mu\text{g}/\text{m}^3$)	Noise Level in dB (A) (between 18.00 Hrs- 24.00 Hrs)	
						Max.	Min.
Bilaspur	(i) Office Building Vyapar Vihar	61	25	10.1	18.5	60.4	52.2
	(ii) Near Traffic Police Thana, Bilaspur	72	31	10.3	19.1	69	61.5

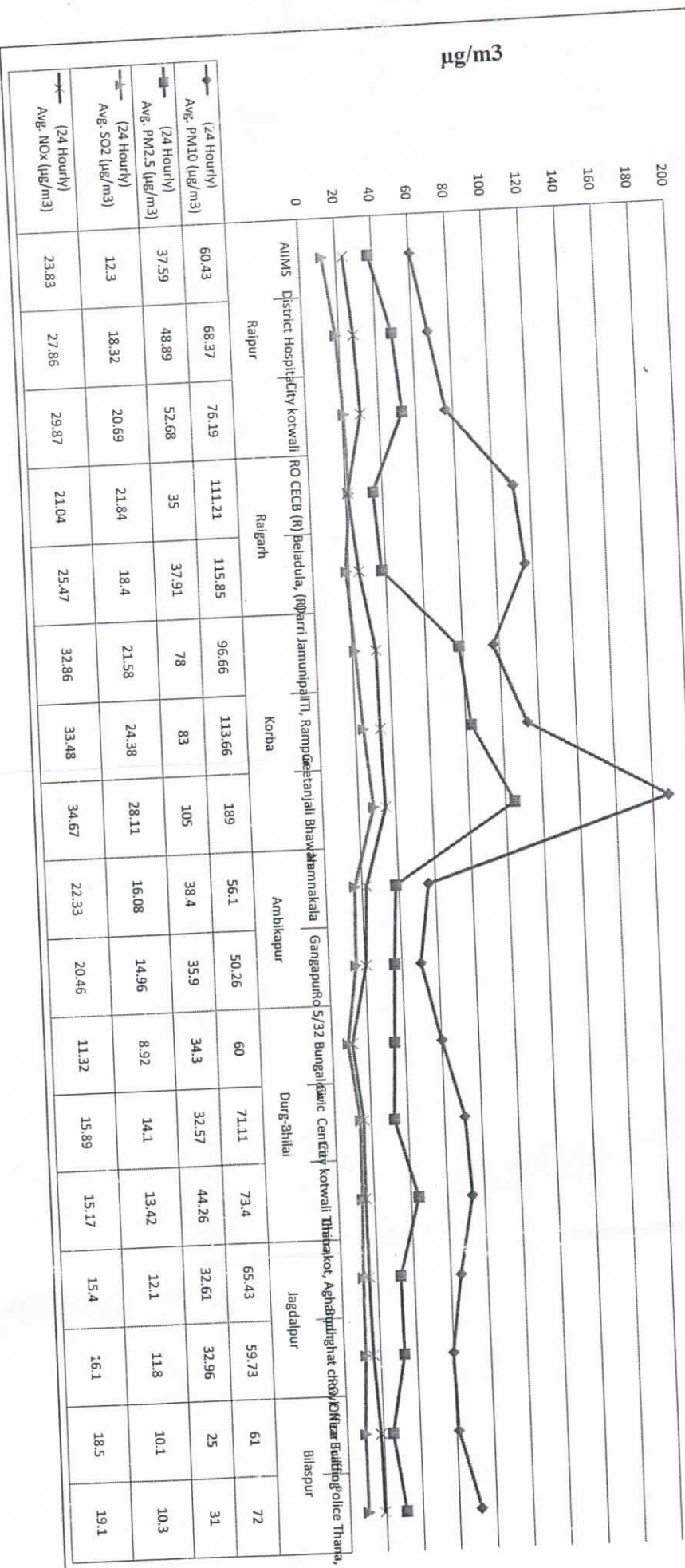








Comparative data of Ambient Air Quality during Deepawali Festival 2019 (Date 27/10/2019)



Pollutant	Raipur		Rajgarh		Korba		Ambikapur		Durg-shilain		Jagdalpur		Bilaspur				
	Location	Value	Location	Value	Location	Value	Location	Value	Location	Value	Location	Value	Location	Value			
Avg. PM10 ($\mu\text{g}/\text{m}^3$)	60.43	68.37	76.19	111.21	115.85	96.66	113.66	189	56.1	50.26	60	71.11	73.4	65.43	59.73	61	72
Avg. PM2.5 ($\mu\text{g}/\text{m}^3$)	37.59	48.89	52.68	35	37.91	78	83	105	38.4	35.9	34.3	32.57	44.26	32.61	32.96	25	31
Avg. SO2 ($\mu\text{g}/\text{m}^3$)	12.3	18.32	20.69	21.84	18.4	21.58	24.38	28.11	16.08	14.96	8.92	14.1	13.42	12.1	11.8	10.1	10.3
Avg. NOx ($\mu\text{g}/\text{m}^3$)	23.83	27.86	29.87	21.04	25.47	32.86	33.48	34.67	22.33	20.46	11.32	15.89	15.17	15.4	16.1	18.5	19.1

Ambient Air Quality monitoring data during Deepawali festival (31.1.2018 to 14.11.2018):

Data/Observations :

Date	Regulatory parameters							Proposed New Parameters						
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Pb (µg/m ³)	Ni in PM ₁₀ (ng/m ³)	As (ng/m ³)	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)
20.10.2019	08.52	11.81	36.09	17.53	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.17	N.D.	N.D.	N.D.
21.10.2019	09.44	12.47	39.57	23.62	0.04	N.D.	N.D.	N.D.	N.D.	N.D.	0.32	N.D.	N.D.	N.D.
22.10.2019	11.70	17.12	43.88	28.61	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.64	N.D.	N.D.	N.D.
23.10.2019	08.84	17.03	36.69	21.58	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	*	*	*	*
24.10.2019	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25.10.2019	11.43	15.24	37.82	24.28	0.65	N.D.	N.D.	N.D.	N.D.	N.D.	0.74	N.D.	N.D.	N.D.
26.10.2019	10.50	20.22	40.32	29.33	6.27	N.D.	N.D.	N.D.	N.D.	0.02	1.26	N.D.	0.06	N.D.
27.10.2019	12.30	23.83	60.43	37.59	8.20	N.D.	7.80	N.D.	N.D.	0.64	4.06	N.D.	0.09	N.D.
28.10.2019	11.35	19.81	47.28	31.40	4.21	N.D.	2.33	N.D.	N.D.	0.06	2.62	N.D.	0.02	N.D.
29.10.2019	08.12	19.53	49.87	29.44	0.65	N.D.	N.D.	N.D.	N.D.	N.D.	0.67	N.D.	0.01	N.D.
30.10.2019	10.37	18.36	51.76	28.10	0.09	N.D.	N.D.	N.D.	N.D.	N.D.	0.23	N.D.	N.D.	N.D.
31.10.2019	08.66	19.04	50.32	30.05	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.27	N.D.	N.D.	N.D.
01.11.2019	14.16	20.80	51.72	26.37	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.36	N.D.	N.D.	N.D.
02.11.2019	09.89	19.58	53.01	28.06	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.27	N.D.	N.D.	N.D.
03.11.2019	10.08	20.09	55.87	34.09	0.07	N.D.	N.D.	N.D.	N.D.	N.D.	0.11	N.D.	N.D.	N.D.

* All values (24 hourly Avg.) are in µg/m³

Interpretation of Ambient Air Quality Data/Results :
 Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other Information pertains to the monitoring activity.

Name & Signature of Official on Duty :	Lab Attd.	Lab Asst.	Chemist (III)	Chemist (I)	Scientist (II)	Scientist (I)

Ambient Air Quality monitoring data during Deepawali festival (20.10.2019 to 03.11.2019):

Data/Observations :

Name of the location : District hospital Pandri, Raipur (C.G.)

Date	Regulatory parameters										Proposed New Parameters						
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Metals in PM ₁₀			Metals in PM _{2.5}									
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	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)			
20.10.2019	09.12	08.52	37.03	19.16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.13	N.D.	N.D.	N.D.			
21.10.2019	11.77	19.12	43.07	22.73	0.05	N.D.	N.D.	N.D.	N.D.	N.D.	0.36	N.D.	N.D.	N.D.			
22.10.2019	15.96	25.38	45.72	31.49	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.72	N.D.	N.D.	N.D.			
23.10.2019	16.39	25.51	32.79	18.46	0.04	N.D.	N.D.	N.D.	N.D.	N.D.	*	*	*	*			
24.10.2019	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
25.10.2019	16.10	21.45	50.31	23.36	0.52	N.D.	N.D.	N.D.	N.D.	0.04	1.26	N.D.	N.D.	N.D.			
26.10.2019	18.32	25.44	54.25	38.31	4.57	N.D.	3.52	N.D.	N.D.	0.42	4.36	N.D.	N.D.	0.08			
27.10.2019	18.32	27.86	68.37	48.89	7.20	N.D.	6.90	N.D.	N.D.	0.07	2.19	N.D.	N.D.	0.03			
28.10.2019	19.46	24.33	52.02	40.63	4.11	N.D.	2.17	N.D.	N.D.	N.D.	0.72	N.D.	N.D.	N.D.			
29.10.2019	21.62	26.48	52.87	37.94	0.72	N.D.	N.D.	N.D.	N.D.	N.D.	0.42	N.D.	N.D.	N.D.			
30.10.2019	17.62	24.16	53.81	35.48	0.09	N.D.	N.D.	N.D.	N.D.	N.D.	0.32	N.D.	N.D.	N.D.			
31.10.2019	18.71	24.32	54.82	38.41	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.11	N.D.	N.D.	N.D.			
01.11.2019	19.01	25.59	55.19	34.04	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			
02.11.2019	18.67	25.39	55.62	36.58	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			
03.11.2019	17.57	24.11	56.40	32.73	0.06	N.D.	N.D.	N.D.	N.D.	N.D.	0.10	N.D.	N.D.	N.D.			

* All values (24 hourly Avg.) are in µg/m³

Interpretation of Ambient Air Quality Data/Results :

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other Information pertains to the monitoring activity.

Name & Signature of Official on Duty :		Lab Attd.		Lab Asst.		Chemist (III)		Chemist (I)		Scientist (II)		Scientist (I)
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Ambient Air Quality monitoring data during Deepawali festival (20.10.2019 to 03.11.2019):

Data/Observations :

Date	Regulatory parameters										Proposed New Parameters									
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Metals in PM ₁₀								Metals in PM _{2.5}							
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	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)						
20.10.2019	09.67	09.62	42.51	26.78	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.16	0.29	N.D.	N.D.	N.D.	N.D.	
21.10.2019	09.10	18.32	40.16	25.50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.17	0.32	N.D.	N.D.	N.D.	N.D.	
22.10.2019	14.63	22.12	47.19	31.08	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	*	*	N.D.	N.D.	N.D.	*	
23.10.2019	11.76	19.96	32.44	21.25	N.D.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24.10.2019	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25.10.2019	14.52	20.18	45.97	35.11	0.07	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.27	1.10	N.D.	N.D.	0.04	N.D.	
26.10.2019	17.25	23.18	52.69	40.35	4.29	N.D.	3.62	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3.82	0.42	N.D.	N.D.	0.07	N.D.	
27.10.2019	20.69	29.87	76.19	52.68	7.60	N.D.	6.30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.29	0.04	N.D.	N.D.	0.02	N.D.	
28.10.2019	17.71	22.79	55.19	48.84	2.13	N.D.	4.67	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.23	N.D.	N.D.	N.D.	N.D.	N.D.	
29.10.2019	20.47	23.79	56.06	45.46	0.06	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.19	N.D.	N.D.	N.D.	N.D.	N.D.	
30.10.2019	17.09	22.10	56.80	46.13	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
31.10.2019	19.35	22.70	58.28	47.69	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.21	N.D.	N.D.	N.D.	N.D.	N.D.	
01.11.2019	18.22	21.84	57.91	44.54	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.12	N.D.	N.D.	N.D.	N.D.	N.D.	
02.11.2019	19.14	21.06	59.43	48.39	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.09	N.D.	N.D.	N.D.	N.D.	N.D.	
03.11.2019	17.65	20.85	61.50	49.21	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.							

* All values (24 hourly Avg.) are in µg/m³

Interpretation of Ambient Air Quality Data/Results :

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

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Ambient Air Quality Monitoring data during Deepawali festival (During Diwali: 27/10/2019)

Data/ Observations:

Date	Regulatory parameters					Proposed New Parameters								
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (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)	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)
27/10/2019	21.84	21.04	111.21	35.00	30.4	N.D.	0.42	0.96	N.D.	0.06	0.69	N.D.	0.02	N.D.

* All values (24 hourly Avg.) are in µg/m³


Chemist


Scientist


Regional Officer

Ambient Air Quality Monitoring data during Deepawali festival (During Diwali: 27/10/2019)

Data/ Observations:

Date	Regulatory parameters					Proposed New Parameters												
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (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)				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)
27/10/2019	18.40	25.47	115.85	37.91		34.2	N.D.	0.54				0.76	N.D.	0.04	0.74	N.D.	0.04	N.D.

* All values (24 hourly Avg.) are in µg/m³


Chemist


Scientist


Regional Officer

Ambient Air Quality Monitoring data during Deepawali festival (21.10.2019, 27.10.2019 & 28.10.2019)

Data/ Observations :

Date	Name of the Location : Geetanjali Bhavan, Korba													
	Regulatory Parameters					Proposed New Parameters								
	SO ₂ µg/m ³	NO ₂ µg/m ³	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	Pb µg/m ³	Metals in PM ₁₀			Metals/ Elements in PM _{2.5}					
						Ni µg/m ³	As µg/m ³	Pb µg/m ³	Ni µg/m ³	As µg/m ³	Al µg/m ³	Ba µg/m ³	Fe µg/m ³	Sr µg/m ³
21.10.2019	10.15	16.21	60.0	23.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
27.10.2019	28.11	34.67	189.0	105.0	3.48	N.D.	0.09	0.06	N.D.	0.02	1.46	N.D.	0.03	N.D.
28.10.2019	18.20	22.29	90.33	65.0	1.32	N.D.	0.02	0.02	N.D.	0.01	0.31	N.D.	0.02	N.D.

* All values (24 hourly Avg.) are in µg/m³

Interpretation of Ambient Air Quality Data/ Results :

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other Information pertains to the monitoring activity.


Lab Assistant


Chemist


Scientist

Ambient Air Quality Monitoring data during Deepawali festival (21.10.2019, 27.10.2019 & 28.10.2019)

Data/ Observations :


Date	Name of the Location : ITI, Rampur, Korba													
	Regulatory Parameters					Proposed New Parameters								
	SO ₂ µg/m ³	NO ₂ µg/m ³	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	Pb µg/m ³	Metals in PM ₁₀			Metals/ Elements in PM _{2.5}					
						Ni µg/m ³	As µg/m ³	Pb µg/m ³	Ni µg/m ³	As µg/m ³	Al µg/m ³	Ba µg/m ³	Fe µg/m ³	Sr µg/m ³
21.10.2019	10.96	15.04	53.0	22.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.42	N.D.	N.D.	N.D.
27.10.2019	24.38	33.48	113.66	83.0	7.62	N.D.	2.72	0.04	N.D.	0.06	N.D.	N.D.	0.05	N.D.
28.10.2019	13.88	17.60	88.33	52.0	4.40	N.D.	1.29	0.01	N.D.	0.01	0.22	N.D.	0.01	N.D.

* All values (24 hourly Avg.) are in µg/m³

Interpretation of Ambient Air Quality Data/ Results :

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other Information pertains to the monitoring activity.


Lab Assistant


Chemist


Scientist

Ambient Air Quality Monitoring data during Deepawali festival (21.10.2019,27.10.2019 & 28.10.2019)

Data/ Observations :

Date	Name of the Location : Darrì, Jamnìpali, Korba													
	Regulatory Parameters					Proposed New Parameters								
	SO ₂ µg/m ³	NO ₂ µg/m ³	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	Pb µg/m ³	Metals in PM ₁₀		Metals/ Elements in PM _{2.5}						
						Ni ng/m ³	As ng/m ³	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
21.10.2019	9.56	14.50	44.0	18.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
27.10.2019	21.58	32.86	96.66	78.0	2.69	N.D.	0.42	0.04	N.D.	0.08	1.72	N.D.	0.04	N.D.
28.10.2019	11.20	16.53	76.66	47.0	1.58	N.D.	0.21	0.02	N.D.	0.02	0.64	N.D.	0.02	N.D.

* All values (24 hourly Avg.) are in µg/m³

Interpretation of Ambient Air Quality Data/ Results :

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other Information pertains to the monitoring activity.

BRM
Lab Assistant

[Signature]
Chemist

[Signature]
Scientist

Ambient Air Quality Monitoring data during Deepawali festival(20.10.2019 To 03.11.2019)

Data/Observations:

Annexure-V

Site location - Housing Board Colony, Nammakala, Ambikapur

Date	Regulatory parameters										Proposed New parameters							
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (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)	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)				
21-10-2019	11.16	12.56	48.30	32.60	N.D	N.D	N.D	N.D	N.D	N.D	0.06	N.D	N.D	N.D				
27-10-2019	16.08	22.33	56.10	38.40	3.02	N.D	5.82	0.05	0.07	0.08	2.32	N.D	0.08	N.D				
28-10-2019	15.63	19.93	51.70	34.90	2.35	N.D	2.12	0.03	0.02	0.04	1.21	N.D	0.02	N.D				

Analyzed by M/S Ultimate Envirolytical Solution Kabir nagar Raipur

Interpretation of Ambient Air Quality data/Results:

Report the compliance of the air pollutants concentration with standard limits for that area. if there is increase or decrease of pollutant Concentration in that area, note the causes affecting air affecting air pollutants concentration.

Any other Information Pertains to the Monitoring activity.



Ambient Air Quality Monitoring data during Deepawali festival(20.10.2019 To 03.11.2019)
Data/Observations:

Annexure-V

Name of the location – REGIONAL OFFICE, CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, GANGAPUR, AMBIKAPUR (C.G.)

Date	Regulatory parameters										Proposed New parameters						
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (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)	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)			
21-10-2019	10.48	11.96	43.60	28.90	N.D	N.D	N.D	N.D	N.D	N.D	0.08	N.D	N.D	N.D	N.D	N.D	
27-10-2019	14.96	20.46	50.26	35.90	3.42	N.D	5.35	0.07	0.06	0.02	3.42	N.D	N.D	0.09	N.D	N.D	
28-10-2019	13.45	17.46	46.50	33.10	2.09	N.D	2.92	0.04	0.02	N.D	1.65	N.D	0.03	N.D	N.D	N.D	

1 Values (24 Hourly Average) are in µg/m³
Monitoring and report prepared by- H.N.Tiwari & Team

Monitored by M/S Ultimate Envirolytical Solution Kabir Nagar Raipur

Interpretation of Ambient Air Quality data/Results:

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air affecting air pollutants concentration. Any other Information Pertains to the Monitoring activity.

REGIONAL OFFICE
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
5/32 BUNGLOW, BHILAI DIST-DURG (C.G.)
Data / Observations: 21.10.2019, 27.10.2019 & 28.10.2019

ANNEXURE-V

Date	Name of the location - RO CECB, 32/5 Bungalow, Bilhail, Distt - Durg (C.G.)												
	Regulatory parameters					Proposed New Parameters							
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (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)	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)
21-10-2019	3.36	9.53	54.653	28.169	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	N.D.
27-10-2019	8.92	11.32	60.000	34.305	18.4	N.D.	3.22	N.D.	0.06	1.23	N.D.	0.06	N.D.
28-10-2019	8.32	9.52	58.681	31.633	9.22	N.D.	1.62	0.03	0.03	0.06	N.D.	0.03	N.D.

Interpretation of Ambient Air Quality Data/ Results:

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other information pertains to the monitoring activity


 Chemist


 Scientist


 Regional Officer



REGIONAL OFFICE
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
5/32 BUNGLOW, BHILAI DIST-DURG (C.G.)
Ambient Air Quality monitoring data during deepawali festival (21.10.2019, 27.10.2019 & 28.10.2019)

Data / Observations:

Name of the location - Civic Centre, Bhilai, Distt - Durg (C.G.)

Date	Regulatory parameters					Proposed New Parameters												
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Pb (µg/m ³)	Metals in PM ₁₀					Metals /Elements in PM _{2.5}							
						Ni (ng/m ³)	As (ng/m ³)	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)				
21-10-2019	10.86	12.83	61.806	21.070	0.03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
27-10-2019	14.10	15.89	71.111	32.573	16.3	N.D.	4.27	0.04	N.D.	0.10	1.42	N.D.	N.D.	N.D.	0.06	N.D.	N.D.	
28-10-2019	12.82	13.30	66.389	29.499	7.61	N.D.	1.78	0.01	N.D.	0.06	0.03	N.D.	N.D.	N.D.	0.02	N.D.	N.D.	

* All values (24 hourly Avg.) are in µg/m³

Interpretation of Ambient Air Quality Data/ Results:

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other information pertains to the monitoring activity


 Chemist


 Scientist


 Regional Officer

REGIONAL OFFICE
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
5/32 BUNGLOW, BHILAI DIST-DURG (C.G.)
(21.10.2019, 27.10.2019 & 28.10.2019)

Data / Observations:

Date	Name of the location - City Kotwali Thana, Durg, Distt - Durg (C.G.)													
	Regulatory parameters					Proposed New Parameters								
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		Metals /Elements in PM _{2.5}								
					Metals in PM ₁₀									
					Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	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)
21-10-2019	13.22	14.12	63.750	25.718	0.05	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
27-10-2019	13.42	15.17	73.403	44.266	16.2	N.D.	3.68	0.04	N.D.	0.17	1.39	N.D.	N.D.	N.D.
28-10-2019	13.25	14.27	69.653	34.291	8.3	N.D.	1.29	0.02	N.D.	0.08	0.08	N.D.	0.01	N.D.

* All values (24 hourly Avg.) are in µg/m³

Interpretation of Ambient Air Quality Data/ Results:

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other information pertains to the monitoring activity


Chemist


Scientist


Regional Officer

air Quality monitoring data during Deepawali festival (21, 27 & 28 October 2019)

Revised-Annexure-V

Observations :
Name of the location : Aghanpur, Chitrakote Road

Date	Regulatory Parameters										Proposed New Parameters						
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Metals in PM ₁₀							Metals/Elements in PM _{2.5}					
21.10.2019	8.97	11.10	42.54	20.77	Pb ₃ (µg/m ³)	Ni ₃ (µg/m ³)	As ₃ (µg/m ³)	Pb ₃ (µg/m ³)	Ni ₃ (µg/m ³)	As ₃ (µg/m ³)	Al ₃ (µg/m ³)	Ba ₃ (µg/m ³)	Fe ₃ (µg/m ³)	Sr ₃ (µg/m ³)			
27.10.2019	12.1	15.4	65.43	32.61	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.08	N.D.	N.D.	N.D.			
28.10.2019	11.3	14.4	48.48	24.03	3.22	N.D.	6.42	0.06	0.06	0.04	2.65	N.D.	0.09	N.D.			
All values (24 hourly Avg.) are in µg/m ³																	

Interpretation of Ambient Air Quality Data/Results:

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other Information pertains to the monitoring activity

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ent Air Quality monitoring data during Deepawali festival (21, 27 & 28 October 2019)
 All Observations :

Revised- Annexure-V

Name of the location : Bodhghat Chowk, Jagdalpur

Date	Regulatory Parameters				Proposed New Parameters									
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Metals in PM ₁₀									
					Pb ₃ (µg/m ³)	Ni ₃ (µg/m ³)	As ₃ (µg/m ³)	Pb ₃ (µg/m ³)	Ni ₃ (µg/m ³)	As ₃ (µg/m ³)	Al ₃ (µg/m ³)	Ba ₃ (µg/m ³)	Fe ₃ (µg/m ³)	Sr ₃ (µg/m ³)
21.10.2019	7.9	11.6	34.97	16.75	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.09	N.D.	N.D.	N.D.
27.10.2019	11.8	16.1	59.73	32.96	3.65	N.D.	5.62	0.05	0.08	0.03	3.26	N.D.	0.08	N.D.
28.10.2019	11.1	15.4	48.46	20.83	2.35	N.D.	2.12	0.02	0.04	0.02	1.42	N.D.	0.02	N.D.
All values (24 hourly Avg.) are in µg/m ³														

Interpretation of Ambient Air Quality Data/Results:

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in that area, note the causes affecting air pollutants concentration.

Any other Information pertains to the monitoring activity

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Ambient Air Quality monitoring data during Deepawali festival (21.10.2019, 27.10.2019 & 28.10.2019)
Data/Observations :

Annexure-V

Date	Name of the locations : Office Building, Vyapar Vihar, Bilaspur (C.G.)													
	Regulatory parameters					Proposed New Parameters								
	SO2 (µg/m ³)	NO2 (µg/m ³)	PM10 (µg/m ³)	PM2.5 (µg/m ³)	Pb (µg/m ³)	Ni (µg/m ³)	As (µg/m ³)	Pb (µg/m ³)	Ni (µg/m ³)	As (µg/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
21.10.2019	7.80	17.16	54.00	23.00	0.34	ND	ND	ND	ND	ND	ND	ND	0.03	ND
27.10.2019	10.01	18.50	61.00	25.00	19.70	ND	8.22	0.19	ND	0.22	ND	ND	0.09	ND
28.10.2019	9.10	17.10	56.00	21.00	7.80	ND	3.33	ND	ND	0.09	ND	ND	0.04	ND

*All values (24 hourly Avg.) are in µg/m³.

Interpretation of Ambient Air Quality Data/Results:
 Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in the area, note the causes affecting air pollutants concentration.

Any other Information pertains to the monitoring activity

Ambient Air Quality monitoring data during Deepavali festival (21.10.2019, 27.10.2019 & 28.10.2019)

Data/Observations :

Date	Name of the locations : Near Traffic Police Thana, Bilaspur (C.G.)													
	Regulatory parameters					Proposed New Parameters								
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Pb (µg/m ³)	Ni (µg/m ³)	As (µg/m ³)	Pb (µg/m ³)	Ni (µg/m ³)	As (µg/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)	Sr (µg/m ³)
21.10.2019	12.50	22.30	58.00	27.00	0.52	ND	ND	ND	ND	0.19	ND	ND	0.07	ND
27.10.2019	10.30	19.10	72.00	31.00	19.30	ND	4.30	0.15	ND	0.08	ND	ND	0.03	ND
28.10.2019	8.50	16.50	61.00	29.00	8.22	ND	2.71	ND	ND	0.08	ND	ND	0.03	ND

*All values (24 hourly Avg.) are in µg/m³.

Interpretation of Ambient Air Quality Data/Results:

Report the compliance of the air pollutants concentration with standard limits for that area. If there is increase or decrease of pollutant concentration in the area, note the causes affecting air pollutants concentration.

Any other Information pertains to the monitoring activity