



मुख्यालय

छत्तीसगढ़ पर्यावरण संरक्षण मंडल
व्यावसायिक परिसर, छत्तीसगढ़ हाऊसिंग बोर्ड कॉलोनी,
कबीर नगर, रायपुर (छ.ग.)

क्रमांक 4473/मुख्या./वैज्ञा./छ.ग.प.सं.मं./2015
प्रति,

रायपुर, दिनांक 16/12/2015

सदस्य सचिव,
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,
'परिवेश भवन, पूर्वी अर्जुन नगर,
दिल्ली-110032

Sub :- Monitoring of Ambient Air & Noise during Deepawali festival 2015 reg.

Ref :- Your letter no. A 21018/7/13/4915- Mon. Dated 30/09/2015.

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उपरोक्त संदर्भित पत्र का कृपया अवलोकन हो। केन्द्रीय प्रदूषण नियंत्रण बोर्ड से प्राप्त निर्देशानुसार वर्ष 2015 में दीपावली पर्व के पूर्व एवं पर्व के दौरान वायु एवं ध्वनि मापन कार्य किया गया। निर्धारित प्रपत्र में मॉनिटरिंग रिपोर्ट संलग्न है।

मान. नेशनल ग्रीन ट्रिब्युनल सेंट्रल जोनल बेंच भोपाल का आदेश दिनांक 14/10/2015 के परिपालन में उच्च ध्वनि के फटाकों से होने वाले दुष्प्रभाव एवं उपयोग न करने के संबंध में सभी शिक्षण संस्थानों में जन जागरूकता किये जाने हेतु मंडल द्वारा सभी संबंधित विभागों को पत्र लिखा गया। जन समान्य में भी जन जागरूकता हेतु विभिन्न समाचार पत्रों में प्रकाशन कराया गया। इसके अतिरिक्त उच्च ध्वनि के फटाकों को प्रतिबंधित करने हेतु मंडल एवं सन स्तर से भी समस्त जिले के कलेक्टरों एवं पुलिस अधीक्षकों को भी निर्देशित किया गया। पत्रों की छायाप्रति संलग्न है।

संलग्न :- उपरोक्तानुसार।

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सदस्य सचिव

छत्तीसगढ़ पर्यावरण संरक्षण मंडल,

रायपुर (छ.ग.)

पृ.क्रमांक 4474/मुख्या./वैज्ञा./छ.ग.प.सं.मं./2015

रायपुर, दिनांक 16/12/2015

प्रतिलिपि:-

1. वैज्ञानिक 'ई' एवं प्रभारी वायु लैब केन्द्रीय प्रदूषण नियंत्रण बोर्ड, दिल्ली-110032
2. आंचलिक अधिकारी, आंचलिक कार्यालय, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, तीसरी मंजील, सहकार भवन, नॉर्थ टीटी नगर, भोपाल की ओर सूचनार्थ प्रेषित।

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सदस्य सचिव

छत्तीसगढ़ पर्यावरण संरक्षण मंडल,

रायपुर (छ.ग.)

Monitoring Reports of Noise & Ambient Air of Regional Offices :-

S.No.	Name of Regional Offices	Enclosure
1.	Regional Office, C.G. Environment Conservation Board, New HIG-9, 10, & 11, Tatibandh, Raipur	Annexure-1
2.	Regional Office, C.G. Environment Conservation Board, 5/32 Bunglow, Bhilai, Distt.-Durg	Annexure-2
3.	Regional Office, C.G. Environment Conservation Board, Vyapar Vihar Near of Dindayal Upadhyay Nagar, Bilaspur	Annexure-3
4.	Regional Office, C.G. Environment Conservation Board, Regional Office, C.G. Environment Conservation Board, TV Tower Road, Raigarh	Annexure-4
5.	Regional Office, C.G. Environment Conservation Board, Bank Colony, Behind BTI Nawapara, Ambikapur	Annexure-5
6.	Regional Office, C.G. Environment Conservation Board, Near Tehsil Office, Rampur, Korba	Annexure-6
7.	Regional Office, C.G. Environment Conservation Board, HIG 5 & 6, Aghanpur, Housing Board Colony, Chitracoat Road, Jagdalpur	Annexure-7

Armedure-I



क्षेत्रीय कार्यालय

छत्तीसगढ़ पर्यावरण संरक्षण मण्डल

न्यू एच.आई.जी. 9,10,11 टाटीबंध, रायपुर (छ.ग.)



क्रमांक 2415 / क्षेत्रा / वैज्ञा / छ.प.सं.मं. / 2015 रायपुर, दिनांक 17 / 11 / 2015

प्रति,

सदस्य सचिव महोदय
छत्तीसगढ़ पर्यावरण संरक्षण मंडल,
मंडल मुख्यालय, जिला-रायपुर (छ.ग.)

विषय :- Monitoring of Ambient Air and Noise during Deepawali Festival 2015-
Regarding.

संदर्भ :- मंडल मुख्यालय का पत्र पृ. क्रमांक 3497 दिनांक 27.10.2015.

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उपरोक्त विषय एवं संदर्भ के अनुक्रम में लेख है कि दीपावली पर्व के पूर्व एवं दीपावली पर्व के दौरान ध्वनि एवं परिवेशीय वायु गुणवत्ता मापन कार्य किया गया, जिसकी रिपोर्ट संलग्न कर आवश्यक कार्यवाही हेतु कृपया प्रेषित है।

संलग्न :- उपरोक्तानुसार।

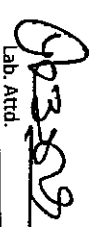


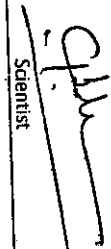
CE(I/c) / ACE(R/L)
SE(B/M/S) / EE / CC
PRO / SO(A/c) / Stt.O / SO-VII

MEMBER SECRETARY

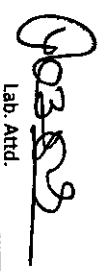


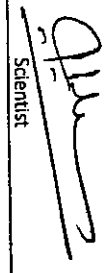
क्षेत्रीय अधिकारी

छ.ग.पर्यावरण संरक्षण मण्डल, रायपुर

ROCECB, RAIPUR
 AMBIENT AIR QUALITY OF RAIPUR
 DATA SHEET FOR PARTICULATE MATTER

Station : Near AIIMS Hospital, Raipur	Date : 11.11.2015	
Shift : 06:00 AM - 02:00 PM	1st Shift	02:00 PM - 10:00 PM
Monitoring Period : RSPM	RSPM	RSPM
Parameter : RSPM	J	K
Filter Paper No.		
Hourly Flow Rate (m ³ / minute)		
	1.30	1.30
	1.30	1.30
	1.30	1.28
	1.28	1.25
	1.28	1.20
	1.28	1.20
	1.25	1.20
	1.25	1.10
	1.20	1.10
	1.20	1.22
	1.27	1.22
Average Flow Rate (m ³ / minute)	480	480
Total Operation Time (minute)	2,6875	2,6926
Initial Weight of Filter Paper (gms.)	2,7852	2,7945
Final Weight of Filter Paper (gms.)	0,0977	0,1019
Dust contents (gram)	609,60	585,60
Total Volume of Air Sampled (m ³)	160,260	174,000
Concentration (µg / m ³)		158,000
24 hourly Average RSPM (µg / m ³)		
Remarks :		
 Lab. Attnd.	 Lab. Asst.	 Chemist
		 Scientist

ROCECB, RAIPUR
AMBIENT AIR QUALITY OF RAIPUR
DATA SHEET FOR GASEOUS AIR POLLUTION

Station : Near AIIMS Hospital, Raipur		Date : 11.11.2015											
Shift :		1st Shift				IInd Shift				IIIrd Shift			
Monitoring Period :		06:00 AM -10:00 AM	10:00 AM -02:00 PM	02:00 PM -06:00 PM	06:00 PM -10:00 PM	10:00 PM -02:00 AM	02:00 AM -06:00 AM						
Parameter :		SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂
Hourly Flow Rate (lpm)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow Rate (lpm)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minute)		240	240	240	240	240	240	240	240	240	240	240	240
Initial Volume of Sample (ml)		30	30	30	30	30	30	30	30	30	30	30	30
Final Volume of Sample (ml)		25	25	25	25	25	25	25	25	25	25	25	25
Volume Taken For Analysis (ml)		10	10	10	10	10	10	10	10	10	10	10	10
Total Volume of Air Sampled (lit.)		240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00
Absorbance (Blank)		0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002
Absorbance (Sample)		0.017	0.040	0.022	0.042	0.027	0.047	0.028	0.049	0.022	0.042	0.018	0.039
Concentration (µg / m ³)		14.50	27.57	20.08	29.02	25.66	32.65	26.78	34.10	20.08	29.02	15.62	26.84
24 hourly Average SO ₂ (µg / m ³)		20.45				24 hourly Average NO ₂ (µg / m ³)				29.86			
Remarks :													
 Lab. Attnd.		 Lab. Asst.				 I/c Chemist				 Scientist			

Station: Collectorate Raipur
 Date: 11/11/2015 24:00
 Report Type: Mean
 Time Base: 1 Hour

Date	Time	PM 10 ug/m3	PM 2.5 ug/m3	SO2 ug/m3	NOx ug/m3	CO mg/m3
11/11/2015	01:00	197.14	126.55	17.96	24.36	4.36
11/11/2015	02:00	164.18	101.75	17.96	22.13	3.40
11/11/2015	03:00	126.89	56.83	17.64	17.98	2.35
11/11/2015	04:00	130.67	55.48	18.70	18.26	2.30
11/11/2015	05:00	187.42	56.28	21.30	24.02	2.79
11/11/2015	06:00	179.58	68.71	20.98	24.98	2.35
11/11/2015	07:00	117.70	61.45	16.22	26.12	2.18
11/11/2015	08:00	128.68	30.25	16.65	26.11	1.89
11/11/2015	09:00	109.99	19.33	18.81	28.48	1.64
11/11/2015	10:00	107.45	25.42	21.37	38.15	1.67
11/11/2015	11:00	106.12	34.07	24.28	36.26	1.59
11/11/2015	12:00	104.87	18.69	21.82	28.80	1.45
11/11/2015	13:00	88.79	15.36	20.77	26.99	1.37
11/11/2015	14:00	73.93	15.59	21.95	18.71	1.26
11/11/2015	15:00	81.56	22.46	22.24	18.71	1.33
11/11/2015	16:00	82.77	20.36	22.10	22.97	1.38
11/11/2015	17:00	86.50	30.33	24.41	25.28	1.68
11/11/2015	18:00	88.10	63.20	19.86	41.26	2.79
11/11/2015	19:00	123.21	183.11	19.94	60.10	7.63
11/11/2015	20:00	196.38	211.80	20.48	64.34	8.19
11/11/2015	21:00	271.67	184.70	20.14	69.18	6.34
11/11/2015	22:00	430.83	250.24	26.94	73.13	7.27
11/11/2015	23:00	548.34	206.78	28.69	72.13	5.34
11/11/2015	24:00	526.70	120.10	27.99	61.47	3.02
Min		73.93	15.36	16.22	17.98	1.26
Time		14.00	13.00	7.00	3.00	14.00
Max		548.34	250.24	28.69	73.13	8.19
Time		23.00	22.00	23.00	10.00	20.00
AVG		177.48	82.45	21.22	36.25	3.15

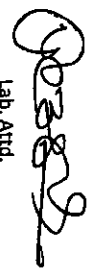



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ROCECB, RAIPUR
AMBIENT AIR QUALITY OF RAIPUR
DATA SHEET FOR PARTICULATE MATTER

Station :	City Kotwali, Raipur		Date: 11.11.2015
Shift :	1st Shift	2nd Shift	3rd Shift
Monitoring Period :	06:00 AM - 02:00 PM	02:00 PM - 10:00 PM	10:00 PM - 06:00 AM
Parameter :	RSPM	RSPM	RSPM
Filter Paper No. :	M	N	O
Hourly Flow Rate (m ³ / minute)	1.30	1.30	1.30
	1.30	1.28	1.30
	1.30	1.25	1.28
	1.28	1.25	1.28
	1.28	1.20	1.25
	1.25	1.20	1.25
	1.20	1.20	1.20
	1.20	1.10	1.20
	1.20	1.10	1.10
Average Flow Rate (m ³ / minute)	1.26	1.20	1.24
Total Operation Time (Minute)	480	480	480
Initial Weight of Filter Paper (gms.)	2.6983	2.6996	2.6922
Final Weight of Filter Paper (gms.)	2.7092	2.844	2.79
Dust contents (gram)	0.0109	0.1544	0.0978
Total Volume of Air Sampled (m ³)	604.80	576.00	595.20
Concentration (µg / m ³)	180.220	268.050	164.310
24 hourly Average RSPM (µg / m ³)	204.190		
Remarks :			
Lab. Attcd.	Lab. Asst.	i/c Chemist	Scientist

ROCECB, RAIPUR
AMBIENT AIR QUALITY OF RAIPUR
DATA SHEET FOR GASEOUS AIR POLLUTION





Station : City Kotwali, Raipur		Date : 11.11.2015											
Shift :		1st Shift				IInd Shift				IIIrd Shift			
Monitoring Period :		06:00 AM -10:00 AM	10:00 AM -02:00 PM	02:00 PM -06:00 PM	06:00 PM -10:00 PM	10:00 PM -02:00 AM	02:00 AM -06:00 AM	06:00 AM -10:00 AM	10:00 AM -02:00 PM	02:00 PM -06:00 AM	06:00 AM -10:00 AM	10:00 PM -02:00 AM	02:00 AM -06:00 AM
Parameter :		SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂
Hourly Flow Rate (lpm)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow Rate (lpm)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minute)		240	240	240	240	240	240	240	240	240	240	240	240
Initial Volume of Sample (ml)		30	30	30	30	30	30	30	30	30	30	30	30
Final Volume of Sample (ml)		25	25	25	25	25	25	25	25	25	25	25	25
Volume Taken For Analysis (ml)		10	10	10	10	10	10	10	10	10	10	10	10
Total Volume of Air Sampled (lit.)		240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00
Absorbance (Blank)		0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002
Absorbance (Sample)		0.026	0.054	0.028	0.056	0.030	0.062	0.032	0.064	0.024	0.050	0.022	0.048
Concentration (µg / m ³)		24.55	37.73	26.78	39.18	29.01	43.53	31.24	44.98	22.32	34.82	20.08	35.37
24 hourly Average SO ₂ (µg / m ³)		25.66											
24 hourly Average NO ₂ (µg / m ³)		38.93											
Remarks :													
 Lab. Attnd.	 Lab. Asst.	 1/2 Chemist	 Scientist										

ROCECB, RAIPUR
AMBIENT AIR QUALITY OF RAIPUR
DATA SHEET FOR PARTICULATE MATTER

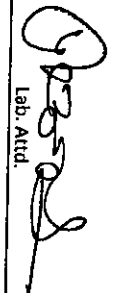



Station : Near AIIMS Hospital, Raipur		Date : 05.11.2015	
Shift :		1st Shift	IIInd Shift
Monitoring Period :		06:00 AM - 02:00 PM	02:00 PM - 10:00 PM
Parameter :	RSPM	RSPM	RSPM
Filter Paper No.	A	B	C
Hourly Flow Rate (m ³ / minute)			
	1.30	1.30	1.30
	1.30	1.30	1.30
	1.30	1.28	1.30
	1.30	1.28	1.28
	1.28	1.25	1.28
	1.28	1.25	1.28
	1.25	1.20	1.25
	1.25	1.20	1.25
	1.20	1.20	1.25
	1.27	1.25	1.28
Average Flow Rate (m ³ / minute)	480	480	480
Total Operation Time (Minute)	2.7312	2.7319	2.7139
Initial Weight of Filter Paper (grms.)	2.7964	2.8177	2.7595
Final Weight of Filter Paper (grms.)	0.0652	0.0858	0.0456
Dust contents (gram)	609.60	600.00	614.40
Total Volume of Air Sampled (m ³)	107.110	143.000	74.210
Concentration (µg / m ³)			
24 hourly Average RSPM (µg / m ³)		108.100	
Remarks :			
 Lab. Attnd.		 Lab. Asst.	
		 I/c Chemist	
		 Scientist	

ROCEGB, RAIPUR
AMBIENT AIR QUALITY OF RAIPUR
DATA SHEET FOR GASEOUS AIR POLLUTION

Station : Near AIIMS Hospital, Raipur Date : 05.11.2015

Shift :	1st Shift				IInd Shift				IIId Shift			
	06:00 AM -10:00 AM	10:00 AM -02:00 PM	02:00 PM -06:00 PM	06:00 PM -10:00 PM	10:00 PM -02:00 AM	02:00 AM -06:00 AM	06:00 AM -10:00 AM	10:00 AM -02:00 AM	02:00 AM -06:00 AM			
Monitoring Period :	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂
Parameter :	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minute)	240	240	240	240	240	240	240	240	240	240	240	240
Initial Volume of Sample (ml)	30	30	30	30	30	30	30	30	30	30	30	30
Final Volume of Sample (ml)	25	25	25	25	25	25	25	25	25	25	25	25
Volume Taken For Analysis (ml)	10	10	10	10	10	10	10	10	10	10	10	10
Total Volume of Air Sampled (lit)	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00
Absorbance (Blank)	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002
Absorbance (Sample)	0.013	0.024	0.014	0.026	0.019	0.037	0.020	0.040	0.015	0.031	0.013	0.022
Concentration (µg / m ³)	9.93	15.96	11.16	17.41	16.74	25.39	17.85	27.53	12.27	21.04	9.93	14.52
24 hourly Average SO ₂ (µg / m ³)	12.97				24 hourly Average NO ₂ (µg / m ³)				20.30			
Remarks :												
 Lab. Attd.	 Lab. Asst.	 I/c Chemist	 Scientist									

ROCECB, RAIPUR
 AMBIENT AIR QUALITY OF RAIPUR
 DATA SHEET FOR PARTICULATE MATTER

Station : Shankar Nagar, Raipur		Date : 05.11.2015	
Shift : _____		_____	
Monitoring Period :	06:00 AM - 02:00 PM	02:00 PM - 10:00 PM	10:00 PM - 06:00 AM
Parameter :	RSPM	RSPM	RSPM
Filter Paper No.	G	H	I
Hourly Flow Rate (m ³ /minute)			
	1.30	1.30	1.30
	1.30	1.28	1.30
	1.30	1.28	1.30
	1.28	1.25	1.28
	1.28	1.25	1.28
	1.25	1.20	1.28
	1.20	1.20	1.28
	1.20	1.18	1.28
	1.10	1.15	1.25
	1.24	1.23	1.28
Average Flow Rate (m ³ /minute)	1.24	1.23	1.28
Total Operation Time (Minute)	480	480	480
Initial Weight of Filter Paper (gms.)	2.7145	2.7224	2.7043
Final Weight of Filter Paper (gms.)	2.7861	2.8276	2.7578
Dust contents (gram)	0.0716	0.1052	0.0535
Total Volume of Air Sampled (m ³)	595.20	590.40	614.40
Concentration (µg / m ³)	120.290	178.180	87.070
24 hourly Average RSPM (µg / m ³)	128.500		
Remarks :			
 Lab. Attd.	 Lab. Asst.	 I/c Chemist	 Scientist

ROCECB, RAIPUR
AMBIENT AIR QUALITY OF RAIPUR
DATA SHEET FOR GASEOUS AIR POLLUTION

Station : Shankar Nagar, Raipur		Date : 05.11.2015											
Shift :		1st Shift				IInd Shift				IIInd Shift			
Monitoring Period :		06:00 AM -10:00 AM	10:00 AM -02:00 PM	02:00 PM -06:00 PM	06:00 PM -10:00 PM	10:00 PM -02:00 AM	02:00 AM -06:00 AM	06:00 AM -10:00 AM	10:00 AM -02:00 PM	02:00 PM -06:00 PM	06:00 AM -10:00 AM	10:00 AM -02:00 AM	02:00 AM -06:00 AM
Parameter :		SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂
Hourly Flow Rate (lpm)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow Rate (lpm)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minute)		240	240	240	240	240	240	240	240	240	240	240	240
Initial Volume of Sample (ml)		30	30	30	30	30	30	30	30	30	30	30	30
Final Volume of Sample (ml)		25	25	25	25	25	25	25	25	25	25	25	25
Volume Taken For Analysis (ml)		10	10	10	10	10	10	10	10	10	10	10	10
Total Volume of Air Sampled (lit.)		240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00
Absorbance (Blank)		0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002
Absorbance (Sample)		0.017	0.038	0.018	0.040	0.019	0.046	0.020	0.048	0.016	0.042	0.015	0.036
Concentration (µg / m ³)		14.50	26.12	15.62	27.57	16.74	31.92	17.85	37.37	13.39	29.02	12.27	26.12
24 hourly Average SO ₂ (µg / m ³)		15.00											
24 hourly Average NO ₂ (µg / m ³)		29.05											
Remarks :													
		 Lab. Asst.				 I/c Chemist.				 Scientist			

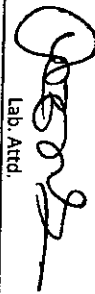



Collectorate, Raipur
 11/05/2015 24:00
 Report Type: Mean
 Time Base: 1 Hour

Date	Time	PM 10 ug/m3	PM 2.5 ug/m3	SO2 ug/m3	NOx ug/m3	CO mg/m3
11/5/2015	01:00	170.82	210.34	13.92	29.49	5.52
11/5/2015	02:00	126.36	205.81	14.52	26.35	5.36
11/5/2015	03:00	128.11	163.90	14.11	24.74	4.02
11/5/2015	04:00	105.20	103.88	14.87	22.79	2.59
11/5/2015	05:00	140.10	101.12	14.98	24.02	1.95
11/5/2015	06:00	145.00	81.47	15.25	33.59	2.17
11/5/2015	07:00	187.24	109.65	16.74	39.46	3.10
11/5/2015	08:00	192.47	81.89	15.98	40.16	2.71
11/5/2015	09:00	165.67	32.95	16.74	31.67	1.97
11/5/2015	10:00	189.05	23.06	17.98	22.21	1.67
11/5/2015	11:00	184.21	35.52	18.42	24.03	1.97
11/5/2015	12:00	110.06	35.69	14.98	23.97	1.97
11/5/2015	13:00	103.05	38.36	18.91	26.75	1.97
11/5/2015	14:00	103.07	53.70	17.45	29.63	2.21
11/5/2015	15:00	132.02	55.84	19.72	29.21	2.18
11/5/2015	16:00	135.74	61.01	19.12	28.49	2.35
11/5/2015	17:00	165.84	71.44	17.76	29.01	2.79
11/5/2015	18:00	198.57	160.81	15.69	39.42	5.21
11/5/2015	19:00	190.44	363.05	17.58	46.79	11.89
11/5/2015	20:00	186.96	276.04	19.97	45.48	9.98
11/5/2015	21:00	174.98	238.27	16.48	43.10	9.67
11/5/2015	22:00	130.12	157.02	15.97	31.18	6.06
11/5/2015	23:00	110.26	118.76	13.68	31.02	4.14
11/5/2015	24:00	105.57	92.97	14.12	29.98	3.02

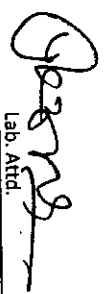


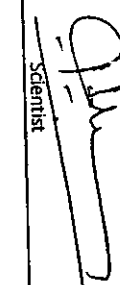
Min		103.05	23.06	13.68	22.21	1.67
Time		2.00	10.00	23.00	10.00	10.00
Max		198.57	363.05	19.97	46.79	11.89
Time		18.00	19.00	20.00	19.00	19.00
AVG		149.20	119.69	16.46	31.36	4.02

Qe 8

ROCECB, RAIPUR
 AMBIENT AIR QUALITY OF RAIPUR
 DATA SHEET FOR PARTICULATE MATTER

Station : City Kotwali, Raipur		Date : 05.11.2015	
Shift : _____		_____	
Monitoring Period : _____		_____	
Parameter :	RSPM	SPM	
Filter Paper No.	D		
Hourly Flow Rate (m ³ /minute)	E		
	F		
	1st Shift	2nd Shift	3rd Shift
	06:00 AM - 02:00 PM	02:00 PM - 10:00 PM	10:00 PM - 06:00 AM
	RSPM	RSPM	RSPM
	1.30	1.30	1.30
	1.30	1.28	1.30
	1.28	1.25	1.30
	1.28	1.25	1.28
	1.25	1.25	1.28
	1.25	1.20	1.28
	1.20	1.20	1.25
	1.20	1.15	1.25
	1.10	1.10	1.20
	1.20	1.22	1.27
Average Flow Rate (m ³ /minute)	480	480	480
Total Operation Time (Minute)	2.7137	2.7234	2.6908
Initial Weight of Filter Paper (gms.)	2.8059	2.8583	2.7495
Final Weight of Filter Paper (gms.)	0.0922	0.1349	0.0587
Dust contents (gram)	576.00	585.60	609.60
Total Volume of Air Sampled (m ³)	160.060	230.360	96.290
Concentration (µg / m ³)			
24 hourly Average RSPM (µg / m ³)		162.230	
Remarks :			
 Lab. Attd.	 Lab. Asst.	 Chemist	 Scientist

ROCECB, RAIPUR
AMBIENT AIR QUALITY OF RAIPUR
DATA SHEET FOR GASEOUS AIR POLLUTION


Station : City Korwali, Raipur		Date : 05.11.2015																
Shift :		1st Shift					IInd Shift					IIInd Shift						
Monitoring Period :		06:00 AM -10:00 AM	10:00 AM -02:00 PM	02:00 PM -06:00 PM	06:00 PM -10:00 PM	10:00 PM -02:00 AM	02:00 AM -06:00 AM											
Parameter :	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂				
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
Average Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
Total Operation Time (Minute)	240	240	240	240	240	240	240	240	240	240	240	240	240	240				
Initial Volume of Sample (ml)	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
Final Volume of Sample (ml)	25	25	25	25	25	25	25	25	25	25	25	25	25	25				
Volume Taken For Analysis (ml)	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
Total Volume of Air Sampled (lit.)	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00				
Absorbance (Blank)	0.004	0.002	0.004	0.004	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002	0.004	0.002				
Absorbance (Sample)	0.019	0.040	0.026	0.047	0.029	0.062	0.031	0.064	0.026	0.047	0.018	0.046	0.046	0.046				
Concentration (µg / m ³)	16.74	27.57	24.55	32.65	27.90	43.53	30.12	44.98	24.55	32.65	15.62	27.57	27.57	27.57				
24 hourly Average SO ₂ (µg / m ³)	23.24										24 hourly Average NO ₂ (µg / m ³)				34.82			
Remarks :																		
 Lab. Attd.		 Lab. Asst.					 I/Chemist					 Scientist						

DATA SHEET FOR AMBIENT NOISE MONITORING

Location : Near AIIMS Hospital, Tatibandh, Raipur		Date : 11.11.2015	
Noise Level Meter			
Make	:	Pulser	
Model	:	Pulser -33, Type/Class -I	
Serial No.	:	T -225340	
Calibration Result of Noise Level Meter			
Calibration	92 dB at 1000 Hz	104 dB at 1000 Hz	
Initial	91.9	103.9	
Final	92.1	104.1	
Sampling rate : 1 Sec. Sampling period			
S.No.	Time duration	File No.	L equivalent dB (A)
1.	18:00 Hrs. to 19:00 Hrs.	-	70.1
2.	19:00 Hrs. to 20:00 Hrs.	-	85.2
3.	20:00 Hrs. to 21:00 Hrs.	-	86.1
4.	21:00 Hrs. to 22:00 Hrs.	-	100.3
5.	22:00 Hrs. to 23:00 Hrs.	-	71.8
6.	23:00 Hrs. to 24:00 Hrs.	-	61.0
Average L equivalent dB (A) Between (18:00 to 24:00 Hrs.)			79.0

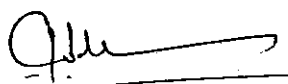
L_{max} Between (18:00 to 24:00 Hrs.) 100.3

L_{min} Between (18:00 to 24:00 Hrs.) 61.0

Lab. Attd. 

Lab. Asst. 


I/c Chemist



Scientist

DATA SHEET FOR AMBIENT NOISE MONITORING

Location : Shankar Nagar, Raipur		Date : 11.11.2015	
Noise Level Meter			
Make	:	Pulser	
Model	:	Pulser -33, Type/Class -1	
Serial No.	:	T -225340	
Calibration Result of Noise Level Meter			
Calibration	92 dB at 1000 Hz	104 dB at 1000 Hz	
Initial	91.9	103.9	
Final	92.1	104.1	
Sampling rate : 1 Sec. Sampling period			
S.No.	Time duration	File No.	L equivalent dB (A)
1.	18:00 Hrs. to 19:00 Hrs.	-	80.5
2.	19:00 Hrs. to 20:00 Hrs.	-	88.0
3.	20:00 Hrs. to 21:00 Hrs.	-	89.6
4.	21:00 Hrs. to 22:00 Hrs.	-	106.8
5.	22:00 Hrs. to 23:00 Hrs.	-	92.0
6.	23:00 Hrs. to 24:00 Hrs.	-	74.3
Average L equivalent dB (A) Between (18:00 to 24:00 Hrs.)			88.5

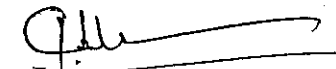
L_{max} Between (18:00 to 24:00 Hrs.) 106.8

L_{min} Between (18:00 to 24:00 Hrs.) 74.3


Lab. Attd.


Lab. Asst.


I/c Chemist

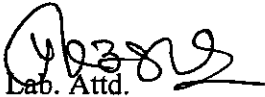

Scientist

DATA SHEET FOR AMBIENT NOISE MONITORING

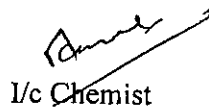
Location : Collectorate, Raipur		Date : 11.11.2015	
Noise Level Meter			
Make	:	Pulser	
Model	:	Pulser -33, Type/Class -1	
Serial No.	:	T -225340	
Calibration Result of Noise Level Meter			
Calibration	92 dB at 1000 Hz	104 dB at 1000 Hz	
Initial	91.9	103.9	
Final	92.1	104.1	
Sampling rate : 1 Sec. Sampling period			
S.No.	Time duration	File No.	L equivalent dB (A)
1.	18:00 Hrs. to 19:00 Hrs.	-	72.1
2.	19:00 Hrs. to 20:00 Hrs.	-	80.1
3.	20:00 Hrs. to 21:00 Hrs.	-	98.2
4.	21:00 Hrs. to 22:00 Hrs.	-	99.0
5.	22:00 Hrs. to 23:00 Hrs.	-	82.4
6.	23:00 Hrs. to 24:00 Hrs.	-	66.2
Average L equivalent dB (A) Between (18:00 to 24:00 Hrs.)			83.0

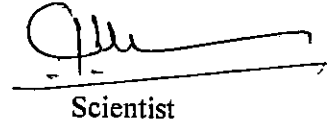
L_{max} Between (18:00 to 24:00 Hrs.) 99.0

L_{min} Between (18:00 to 24:00 Hrs.) 66.2


Lab. Attd.


Lab. Asst.


I/c Chemist

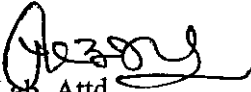

Scientist


DATA SHEET FOR AMBIENT NOISE MONITORING


Location : Near City Kotwali, Raipur		Date : 11.11.2015	
Noise Level Meter			
Make	:	Pulser	
Model	:	Pulser -33, Type/Class -1	
Serial No.	:	T -225340	
Calibration Result of Noise Level Meter			
Calibration	92 dB at 1000 Hz	104 dB at 1000 Hz	
Initial	91.9	103.9	
Final	92.1	104.1	
Sampling rate : 1 Sec. Sampling period			
S.No.	Time duration	File No.	L equivalent dB (A)
1.	18:00 Hrs. to 19:00 Hrs.	-	80.5
2.	19:00 Hrs. to 20:00 Hrs.	-	85.1
3.	20:00 Hrs. to 21:00 Hrs.	-	100.5
4.	21:00 Hrs. to 22:00 Hrs.	-	110.4
5.	22:00 Hrs. to 23:00 Hrs.	-	88.6
6.	23:00 Hrs. to 24:00 Hrs.	-	70.2
Average L equivalent dB (A) Between (18:00 to 24:00 Hrs.)			89.2

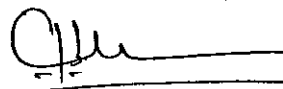
L_{max} Between (18:00 to 24:00 Hrs.) 110.4

L_{min} Between (18:00 to 24:00 Hrs.) 70.2


Lab. Attd.


Lab. Asst.


i/c Chemist

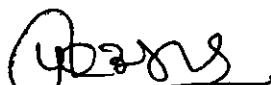

Scientist

DATA SHEET FOR AMBIENT NOISE MONITORING


Location : Near AIIMS Hospital, Tatibandh, Raipur		Date : 05.11.2015	
Noise Level Meter			
Make	:	Pulser	
Model	:	Pulser -33, Type/Class -1	
Serial No.	:	T -225340	
Calibration Result of Noise Level Meter			
Calibration	92 dB at 1000 Hz	104 dB at 1000 Hz	
Initial	91.9	103.9	
Final	92.1	104.1	
Sampling rate : 1 Sec. Sampling period			
S.No.	Time duration	File No.	L equivalent dB (A)
1.	18:00 Hrs. to 19:00 Hrs.	-	56.4
2.	19:00 Hrs. to 20:00 Hrs.	-	60.2
3.	20:00 Hrs. to 21:00 Hrs.	-	63.1
4.	21:00 Hrs. to 22:00 Hrs.	-	58.4
5.	22:00 Hrs. to 23:00 Hrs.	-	55.3
6.	23:00 Hrs. to 24:00 Hrs.	-	51.4
Average L equivalent dB (A) Between (18:00 to 24:00 Hrs.)			57.4

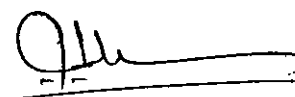
L_{max} Between (18:00 to 24:00 Hrs.) 63.1

L_{min} Between (18:00 to 24:00 Hrs.) 51.4


Lab. Attd.


Lab. Asst.


I/c Chemist


Scientist

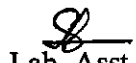
DATA SHEET FOR AMBIENT NOISE MONITORING

Location : Shankar Nagar, Raipur		Date : 05.11.2015	
Noise Level Meter			
Make	:	Pulser	
Model	:	Pulser -33, Type/Class -1	
Serial No.	:	T -225340	
Calibration Result of Noise Level Meter			
Calibration	92 dB at 1000 Hz	104 dB at 1000 Hz	
Initial	91.9	103.9	
Final	92.1	104.1	
Sampling rate : 1 Sec. Sampling period			
S.No.	Time duration	File No.	L equivalent dB (A)
1.	18:00 Hrs. to 19:00 Hrs.	-	63.4
2.	19:00 Hrs. to 20:00 Hrs.	-	66.2
3.	20:00 Hrs. to 21:00 Hrs.	-	70.3
4.	21:00 Hrs. to 22:00 Hrs.	-	65.6
5.	22:00 Hrs. to 23:00 Hrs.	-	62.1
6.	23:00 Hrs. to 24:00 Hrs.	-	58.2
Average L equivalent dB (A) Between (18:00 to 24:00 Hrs.)			64.3

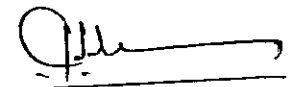
L_{max} Between (18:00 to 24:00 Hrs.) 70.3

L_{min} Between (18:00 to 24:00 Hrs.) 58.2


Lab. Attd.


Lab. Asst.


I/c Chemist


Scientist

DATA SHEET FOR AMBIENT NOISE MONITORING

Location : Collectorate, Raipur		Date : 05.11.2015	
Noise Level Meter			
Make	:	Pulser	
Model	:	Pulser -33, Type/Class -1	
Serial No.	:	T -225340	
Calibration Result of Noise Level Meter			
Calibration	92 dB at 1000 Hz	104 dB at 1000 Hz	
Initial	91.9	103.9	
Final	92.1	104.1	
Sampling rate : 1 Sec. Sampling period			
S.No.	Time duration	File No.	L equivalent dB (A)
1.	18:00 Hrs. to 19:00 Hrs.	-	66.4
2.	19:00 Hrs. to 20:00 Hrs.	-	70.2
3.	20:00 Hrs. to 21:00 Hrs.	-	68.6
4.	21:00 Hrs. to 22:00 Hrs.	-	74.3
5.	22:00 Hrs. to 23:00 Hrs.	-	65.2
6.	23:00 Hrs. to 24:00 Hrs.	-	61.4
Average L equivalent dB (A) Between (18:00 to 24:00 Hrs.)			67.6

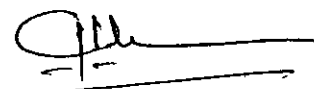
L_{max} Between (18:00 to 24:00 Hrs.) 74.3

L_{min} Between (18:00 to 24:00 Hrs.) 61.4


Lab. Attd.


Lab. Asst.


I/c Chemist



Scientist


DATA SHEET FOR AMBIENT NOISE MONITORING

Location : Near City Kotwali, Raipur		Date : 05.11.2015	
Noise Level Meter			
Make	:	Pulser	
Model	:	Pulser -33, Type/Class -1	
Serial No.	:	T -225340	
Calibration Res:		Noise Level Meter	
Calibration	92 dB at 1000 Hz	104 dB at 1000 Hz	
Initial	91.9	103.9	
Final	92.1	104.1	
Sampling rate : 1 Sec. Sampling period			
S.No.	Time duration	File No.	L equivalent dB (A)
1.	18:00 Hrs. to 19:00 Hrs.	-	63.4
2.	19:00 Hrs. to 20:00 Hrs.	-	68.2
3.	20:00 Hrs. to 21:00 Hrs.	-	72.6
4.	21:00 Hrs. to 22:00 Hrs.	-	69.3
5.	22:00 Hrs. to 23:00 Hrs.	-	65.2
6.	23:00 Hrs. to 24:00 Hrs.	-	60.4
Average L equivalent dB (A) Between (18:00 to 24:00 Hrs.)			66.5

L_{max} Between (18:00 to 24:00 Hrs.) 72.6

L_{min} Between (18:00 to 24:00 Hrs.) 60.4


Lab. Attd.


Lab. Asst.


I/c Chemist



Scientist

DATA SHEET FOR AMBIENT NOISE MONITORING

Location : Near City Kotwali, Raipur		Date : 05.11.2015	
Noise Level Meter			
Make	:	Pulser	
Model	:	Pulser -33, Type/Class -1	
Serial No.	:	T -225340	
Calibration Res:		Noise Level Meter	
Corr		92 dB at 1000 Hz	104 dB at 1000 Hz
Initial		91.9	103.9
Final		92.1	104.1
Sampling rate : 1 Sec. Sampling period			
S.No.	Time duration	File No.	L equivalent dB (A)
1.	18:00 Hrs. to 19:00 Hrs.	-	63.4
2.	19:00 Hrs. to 20:00 Hrs.	-	68.2
3.	20:00 Hrs. to 21:00 Hrs.	-	72.6
4.	21:00 Hrs. to 22:00 Hrs.	-	69.3
5.	22:00 Hrs. to 23:00 Hrs.	-	65.2
6.	23:00 Hrs. to 24:00 Hrs.	-	60.4
Average L equivalent dB (A) Between (18:00 to 24:00 Hrs.)			66.5

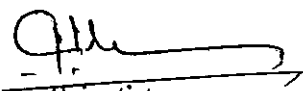
L_{max} Between (18:00 to 24:00 Hrs.) 72.6

L_{min} Between (18:00 to 24:00 Hrs.) 60.4


Lab. Attd.


Lab. Asst.


I/c Chemist


Scientist

Formate Report : Deepawali Monitoring 2015

City : Raipur

- Latitude & Longitude - Raipur District is Situated between $21^{\circ} 14'$ N to $22^{\circ} 33'$ N latitude and $81^{\circ} 38'$ E to $82^{\circ} 6'$ E longitude.
- Climate/Meteorology - The climate of Raipur is warm. The mean maximum temperature in May is 46.4° C. Relative Humidity is generally over 75%. Rainfall observations indicate that annual rainfall in the area is around 1400 mm.
- Population - Population of Raipur district according 2001 16,36,301
Urban population -8,23,276
Rural population -8,13,025
- Major land use - Industrial, Commercial & Residential.
- Monitoring Location - A. Near AIIMS Hospital, Tatibandh, Raipur
B. Shankar Nagar, Raipur
C. Collectorate, Raipur (On Line)
D. Near City Kotwali, Raipur
- Map Showing all monitoring location of the City - Enclosed.
- Description of monitoring site : Commercial & Residential (Mix Zone).
- Activities around the Monitoring location/sources of noise pollution : Vehicular Activities.

Inter pretation of Noise Data/Results

- In normal day noise level at 04 locations are found above the prescribed Standard limits due to Road traffic.
- During Deepawali day noise level at 04 locations are found high the prescribed standard limit due to fire crackers and vehicular activities.

Interpretation of Ambient Air Quality Data/Results

Sulphur dioxide (SO₂)

Sulphur dioxide concentration on Deepawali day 2015 increased at three stations as Compared to Normal day. During Deepawali day SO₂ ranged between 20 and 25 µg/m³ as compared to 13 and 23 during Normal day. SO₂ levels have been found within the prescribed standards of 80 µg/m³ at both location.

Nitrogen Dioxide (NO₂)

Nitrogen dioxide concentration on Deepawali day in 2015 increased at three locations as compared to Normal day. NO₂ values during Deepawali day ranged between 30 and 39 µg/m³ as compared to 20 and 35 µg/m³ during Normal day. The NO₂ levels are within the prescribed standards of 80 µg/m³ at both locations.

Particulate Matter (PM₁₀)

PM₁₀ levels increased at three locations on Deepawali day 2015 as Compared to Normal day. PM₁₀ values during Deepawali day ranged between 158 and 204 µg/m³ as Compared to 108 and 162 µg/m³ during normal day. The PM₁₀ have been found above the prescribed standard of 100 µg/m³ at both locations due to road traffic and fire crackers.

CF

Observation

Noise Level Monitoring :

Location : A Near AIIMS Hospital, Raipur (Mix Zone)		11.11.2015		
Time duration	L min	L max	L eq dB (A)	
18:00 to 19:00 Hr	65.2	89.3	70.1	
19:00 to 20:00 Hr	68.3	106.2	85.2	
20:00 to 21:00 Hr	69.2	107.4	86.1	
21:00 to 22:00 Hr	82.4	117.8	100.3	
22:00 to 23:00 Hr	66.1	88.7	71.8	
23:00 to 24:00 Hr	47.4	73.5	61.0	

Location : B Sankar Nagar, Raipur (Residential Zone)		11.11.2015		
Time duration	L min	L max	L eq dB (A)	
18:00 to 19:00 Hr	66.4	103.3	80.5	
19:00 to 20:00 Hr	68.2	108.7	88.0	
20:00 to 21:00 Hr	68.5	109.2	89.6	
21:00 to 22:00 Hr	78.2	119.4	106.8	
22:00 to 23:00 Hr	74.1	110.1	92.0	
23:00 to 24:00 Hr	71.3	89.5	74.3	

Location : C City Kotwali Chowk, Raipur (Commercial Zone)		11.11.2015		
Time duration	L min	L max	L eq dB (A)	
18:00 to 19:00 Hr	69.4	92.7	80.5	
19:00 to 20:00 Hr	70.2	93.3	85.1	
20:00 to 21:00 Hr	82.0	115.8	100.5	
21:00 to 22:00 Hr	89.7	124.2	110.4	
22:00 to 23:00 Hr	68.8	96.6	88.6	
23:00 to 24:00 Hr	62.5	87.3	70.2	

Location : D Collectorate, Raipur (Commercial Zone)		11.11.2015		
Time duration	L min	L max	L eq dB (A)	
18:00 to 19:00 Hr	66.1	90.2	72.1	
19:00 to 20:00 Hr	68.2	105.3	80.1	
20:00 to 21:00 Hr	70.6	111.4	98.2	
21:00 to 22:00 Hr	72.2	113.3	99.0	
22:00 to 23:00 Hr	69.3	107.7	82.4	
23:00 to 24:00 Hr	48.8	77.5	66.2	

Remark - Prescribed Limit (in decibel)

Residential Zone		Commercial Zone	
Day (06 AM-10 PM)	Night (10 PM-06 AM)	Day (06 AM-10 PM)	Night (10 PM-06 AM)
55	45	65	55

SE

Observation

Noise Level Monitoring :

Location : A Near AIIMS Hospital, Raipur (Mix Zone)		05.11.2015		
Time duration	L min	L max	L eq dB (A)	
18:00 to 19:00 Hr	43.2	69.3	56.4	
19:00 to 20:00 Hr	45.4	72.1	60.2	
20:00 to 21:00 Hr	47.3	74.6	63.1	
21:00 to 22:00 Hr	47.1	73.2	58.4	
22:00 to 23:00 Hr	44.5	70.4	55.3	
23:00 to 24:00 Hr	41.6	65.3	51.4	

Location : B Sankar Nagar, Raipur (Residential Zone)		05.11.2015		
Time duration	L min	L max	L eq dB (A)	
18:00 to 19:00 Hr	45.6	75.4	63.4	
19:00 to 20:00 Hr	47.3	78.7	66.2	
20:00 to 21:00 Hr	51.2	85.3	70.3	
21:00 to 22:00 Hr	48.1	74.5	65.6	
22:00 to 23:00 Hr	46.3	68.6	62.1	
23:00 to 24:00 Hr	43.4	66.5	58.2	

Location : C City Kotwali Chowk, Raipur (Commercial Zone)		05.11.2015		
Time duration	L min	L max	L eq dB (A)	
18:00 to 19:00 Hr	52.2	68.9	63.4	
19:00 to 20:00 Hr	62.1	78.3	68.2	
20:00 to 21:00 Hr	68.5	90.4	72.6	
21:00 to 22:00 Hr	63.0	79.6	69.3	
22:00 to 23:00 Hr	60.2	73.7	65.2	
23:00 to 24:00 Hr	57.5	70.2	60.4	

Location : D Collect orate, Raipur (Commercial Zone)		05.11.2015		
Time duration	L min	L max	L eq dB (A)	
18:00 to 19:00 Hr	47.4	75.3	66.4	
19:00 to 20:00 Hr	62.3	84.1	70.2	
20:00 to 21:00 Hr	57.5	73.2	68.6	
21:00 to 22:00 Hr	67.2	84.6	74.3	
22:00 to 23:00 Hr	48.1	74.3	65.2	
23:00 to 24:00 Hr	50.2	68.1	61.4	

Remark - Prescribed Limit (in decibel)

Residential Zone		Commercial Zone	
Day (06 AM-10 PM)	Night (10 PM-06 AM)	Day (06 AM-10 PM)	Night (10 PM-06 AM)
55	45	65	55

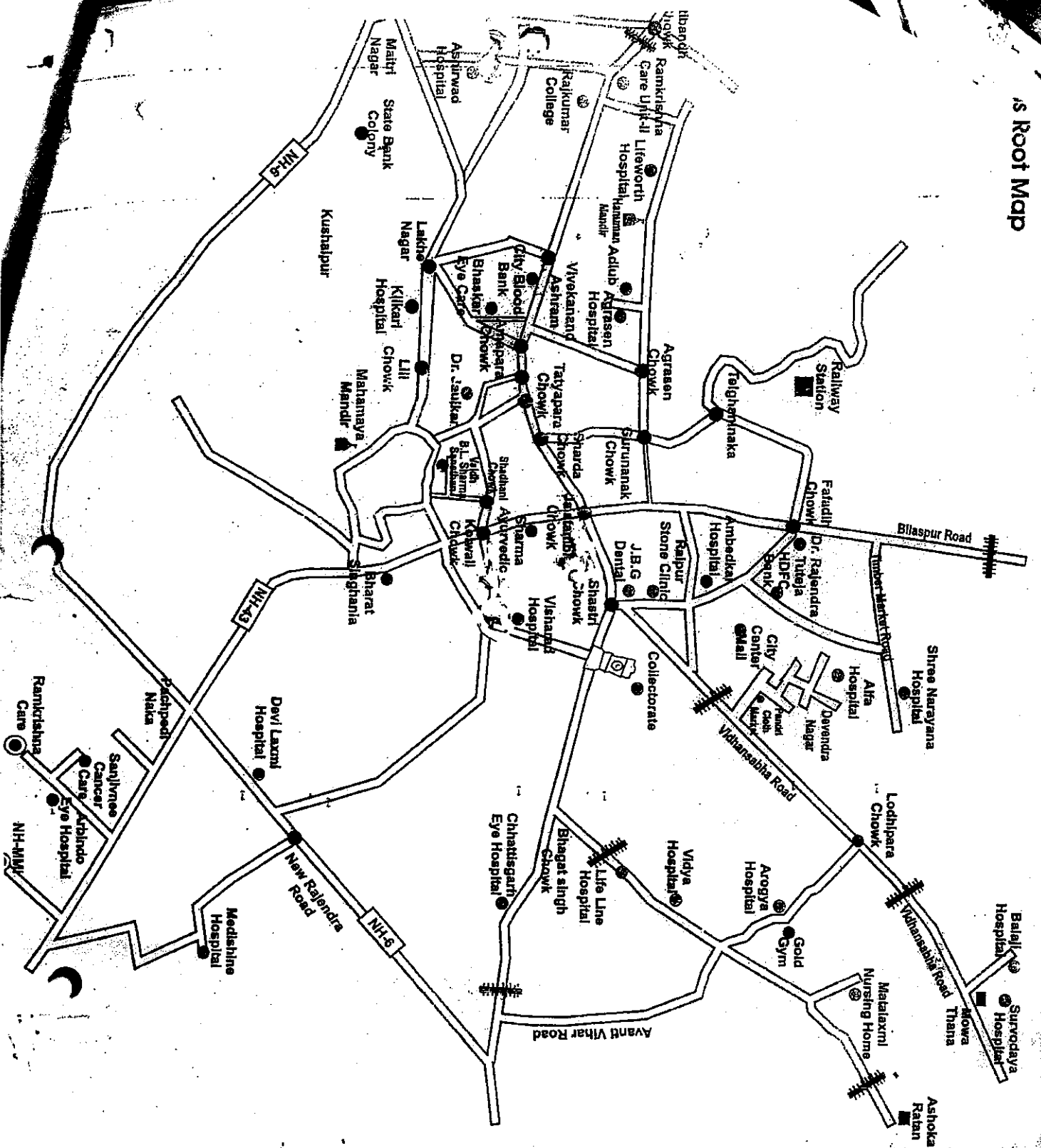
Ambient Air Monitoring during Deepawali festival, 2015 :

Ambient Air Quality during Deepawali 2015						
Parameters monitored						
Date	Normal Day 05-11-2015			Deepawali Day 11-11-2015		
Parameter → Location ↓	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀
(A) Near AIIMS Hospital, Raipur	13	20	108	20	30	158
(B) Shankar Nagar, Raipur	15	29	128	22	33	168
(C) Collectorate, Raipur (On Line)	16	31	149	21	36	177
(D) Near City Kotwali, Raipur	23	35	162	25	39	204
Prescribed Limit	80	80	100	80	80	100
All Values of concentrations are in $\mu\text{g}/\text{m}^3$ of air						

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as Root Map



Ammeure - (2)



क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मंडल

5/32 बंगला भिलाई, जिला दुर्ग (छ.ग.)

क्रमांक
प्रति,

1860 / क्षेत्रकार्या / छपसंमं / दुर्ग / 2015

दिनांक : 18/11/15

सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मण्डल,
रायपुर (छ.ग.)।

विषय :- दीपावली पर्व 2015 के दौरान परिवेशीय वायु एवं ध्वनि स्तर मापन रिपोर्ट भेजने बाबत।

संदर्भ :- 1. मंडल मुख्यालय का पत्र क्रमांक 3529 दिनांक 28.10.2015
2. मंडल मुख्यालय का पत्र क्रमांक 3917 दिनांक 17.11.2015

—:0:—

उपरोक्त विषयांतर्गत संदर्भित पत्र के अनुक्रम में इस कार्यालय द्वारा दीपावली पर्व के पूर्व एवं दीपावली पर्व के दौरान परिवेशीय वायु मापन एवं ध्वनि स्तर मापन कार्य दो बिन्दुओं पर किया गया। परिवेशीय वायु मापन एवं ध्वनि स्तर मापन रिपोर्ट निर्धारित प्रारूप में भरकर आपकी ओर प्रेषित है।

संलग्न :- उपरोक्तानुसार।

क्षेत्रीय अधिकारी
छ.ग. पर्यावरण संरक्षण मंडल, भिलाई

CE(I/c) / ACE(R/L)
SE(B/M/S) / EE / CC
PRO / SO(A/c) / SE.O / SO-I/II

MEMBER SECRETARY

REGIONAL OFFICE BHILAI DURG
Format of Report : Deepawali Monitoring 2015

City : Durg - Bhilai

- Latitude & Longitude : 21°19' North latitude & 81°28' East longitude
- Climate / Meteorology : Attached (Enclosure No-1)
- Population : 268,679 (Enclosure No-2)
- Major Land Use : Residential, Commercial , Agriculture & Industrial

Monitoring Location : 1.Pt.Jawahar Lal Nahru Hospital & Research Centre, Sector- 9, Bhilai (Silence Zone)

2.City Kotwali, Durg (Commercial area)

- Map showing all monitoring : Attached (Enclosure No.-3 A, 3 B)
- Activities around the monitoring location//Sources of Noise Pollution- Vehicle, Transportation & Crackers

Data/Observations :

Noise Level during Deepawali festival, 2015 :

Location : Pt.Jawahar Lal Nahru Hospital & Research Centre Sector- 9, Bhilai (Silence Zone)	Normal Day (05-11-2015)			Deepawali Day (11-11-2015)		
	L min	L max	L eq dB(A)	L min	L max	L eq dB(A)
Time duration						
18:00 to 19:00 Hr.	28.2	55.3	42.1	30.5	57.7	43.5
19:00 to 20:00 Hr.	30.5	56.9	42.8	30.8	59.2	43.8
20:00 to 21:00 Hr.	30.9	58.8	43.4	40.5	75.9	56.1
21:00 to 22:00 Hr.	30.9	61.4	45	41.2	80.4	57.2
22:00 to 23:00 Hr.	30.2	57	43.2	39	73	53.5
23:00 to 24:00 Hr.	29	43	36.1	33.4	51	39.3

Location : City Kotwali, Durg (Commercial area)	Normal Day (05-11-2015)			Deepawali Day (11-11-2015)		
	L min	L max	L eq dB(A)	L min	L max	L eq dB(A)
Time duration						
18:00 to 19:00 Hr.	53.2	85.7	66.4	53.1	92	68.4
19:00 to 20:00 Hr.	54.2	87.2	67.5	53.7	92.1	70.1
20:00 to 21:00 Hr.	53.8	90.8	69.7	61	104.3	79.2
21:00 to 22:00 Hr.	53.6	85.6	68.7	61.8	109.5	80.1
22:00 to 23:00 Hr.	50.2	80.2	65.2	61.7	97.6	73.1
23:00 to 24:00 Hr.	49.7	67.5	57.9	60.1	87.2	70.5

Data / Observations :

Ambient Air Monitoring during Deepawali Festival 2015 :

Ambient Air Quality during Deepawali, 2015						
Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali Day (11.11.2015)		
	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
Pt. Jawahar Lal Nahru Hospital & Research Centre, Sector- 9, Bhilai (Silence Zone)	5.99	12.10	64.068	14.15	17.04	85.29
City Kotwali, Durg (Commercial area)	13.97	21.07	122.36	24.13	29.13	165.08
NAAQ Standards	80	80	100	80	80	100

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

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Enclosure No.-1

Meteorological Data Sheet for NAMP Project

Station : Maroda Water Supply BSP Bhilai (Month - October 2015)

S.No.	Date	Rain fall		Temperature		Relative Humidity		Wind direction	
		Dally	Monthly	Min	Max	FN	AN	FN	AN
1	1 10.15	nil	nil	25	34	91	58	NW	NE
2	2 10.15	nil	nil	26	34	87	64	NW	SW
3	3 10.15	7.7	7.7	26.5	37.5	91	64	SW	SW
4	4 10.15	nil	7.7	26.5	35	91	55	NW	NW
5	5 10.15	nil	7.7	23.5	35	86	46	SW	NW
6	6 10.15	nil	7.7	23.5	34.5	90.5	39.5	NW	NW
7	7 10.15	nil	7.7	23	35.5	81	47.5	NW	NW
8	8 10.15	nil	7.7	23	35.5	81	36	NW	NW
9	9 10.15	nil	7.7	23	35	86	35.5	NW	NW
10	10 10.15	nil	7.7	23	34.5	86	39.5	NW	SW
11	11 10.15	nil	7.7	23.5	34	86	55	SW	SW
12	12 10.15	nil	7.7	25	37	86	52	SW	SW
13	13 10.15	nil	7.7	23	36.5	90.5	43.5	SW	SW
14	14 10.15	nil	7.7	23	36	90.5	58.5	SW	SW
15	15 10.15	nil	7.7	23.5	32	86	59	SW	NW
16	16 10.15	nil	7.7	23.5	32.5	86	59.5	NW	NW
17	17 10.15	nil	7.7	23.5	34	86	46	NW	NW
18	18 10.15	nil	7.7	23.5	33.5	86	51	SW	SW
19	19 10.15	nil	7.7	23	34	90.5	51	NW	SW
20	20 10.15	nil	7.7	23.5	35.5	86	42	SW	NW
21	21 10.15	nil	7.7	23	35	90	55	NW	NW
22	22 10.15	nil	7.7	23.5	34	86	48.5	SW	SW
23	23 10.15	nil	7.7	23	34.5	81.5	49.5	NW	NW
24	24 10.15	nil	7.7	23	37.5	86	53.5	NW	SE
25	25 10.15	nil	7.7	23	37.5	81	53.5	NW	NW
26	26 10.15	nil	7.7	22.5	33	80.5	45.5	NW	SW
27	27 10.15	nil	7.7	23	33.5	81	50.5	SW	SW
28	28 10.15	nil	7.7	23	33	90.5	45	NW	SW
29	29 10.15	nil	7.7	21	29.5	90	64	NW	SW
30	30 10.15	nil	7.7	18.5	26.5	79	78	NW	SW
31	31 10.15	nil	7.7	18.5	27.5	79	63.5	NW	SE

Hda

Durg

From Wikipedia, the free encyclopedia

Coordinates: 21.19°N 81.28°E

Durg is a city in Chhattisgarh state, Central India. It is just east of the Seonath River (Shivnath River) and is part of the Durg-Bhilai urban agglomeration. The city is an agricultural market and is heavily engaged in milling rice and pigeon peas. Durg gained importance as an industrial centre after the establishment of a large steel plant at Bhilai. Industries include brass working and bell-metal working, oil pressing, mining, and weaving. It is the headquarters of Durg District, the third largest district of Chhattisgarh.

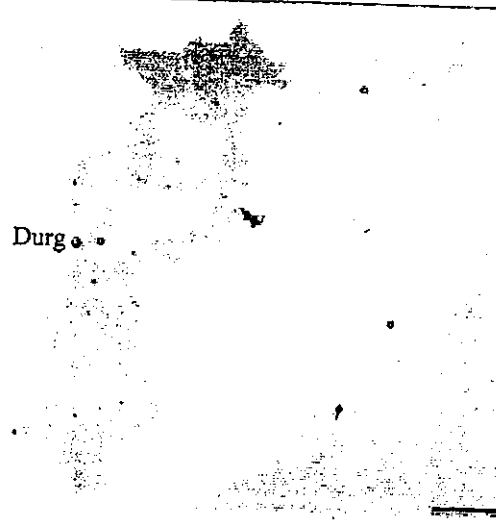
Contents

- 1 Geography
- 2 Connectivity
- 3 Physiography
- 4 Rivers
- 5 Climate
- 6 History
- 7 Demographics
- 8 Transport
- 9 Culture
- 10 Places to see
- 11 Notable people
- 12 Notable Organisation and Educational institutes
- 13 References
- 14 External links

Geography

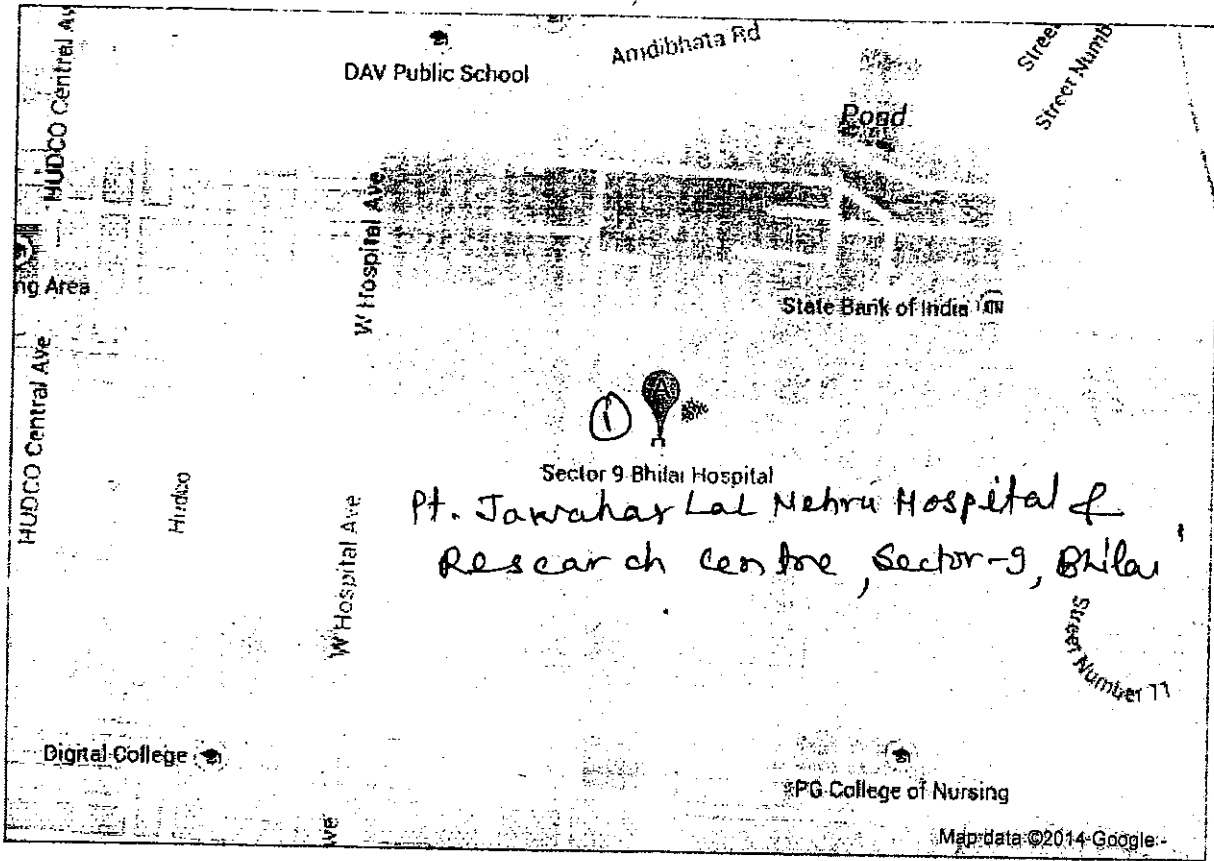
Latitude & Longitude: Between- 20°23' and 22°02' N & 80°46' and 81°58 E

- Height above mean sea level: 317.00 M
- Geographical Area: 2238.36 km²

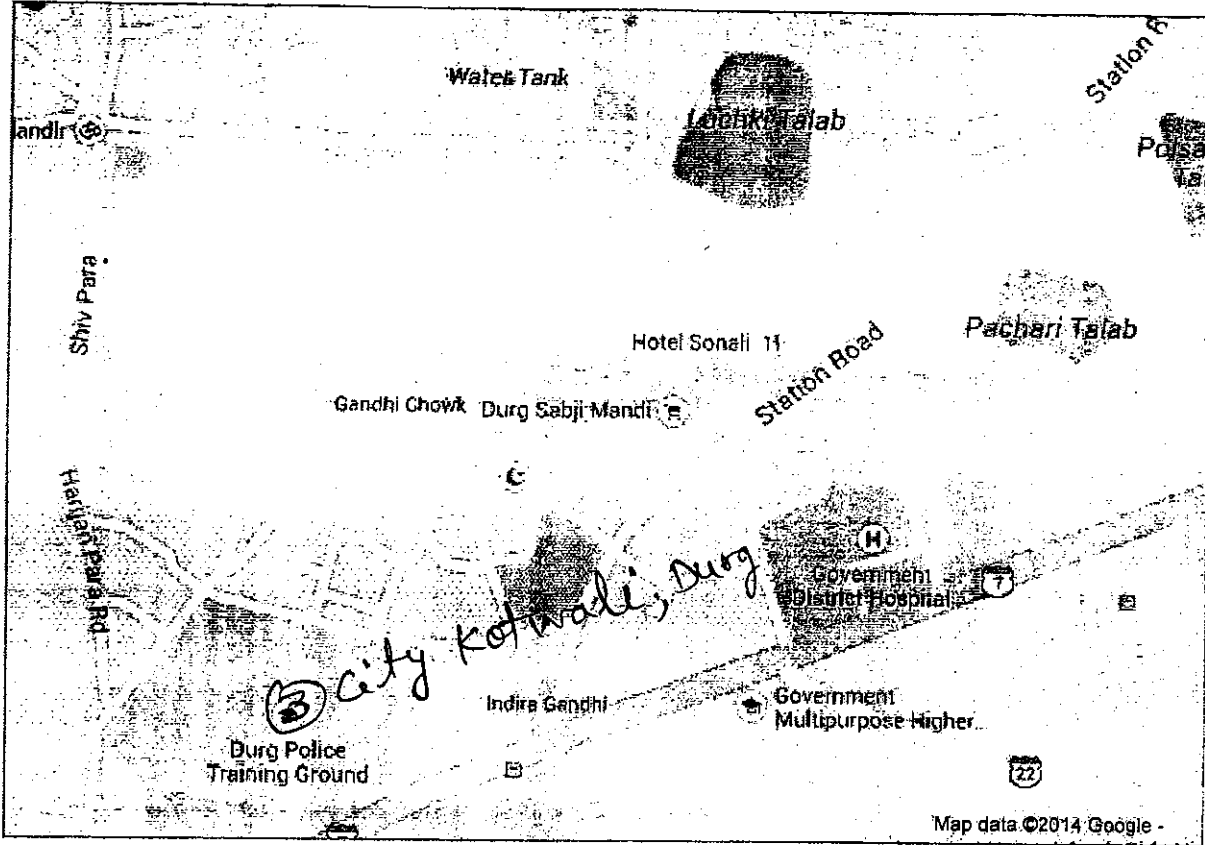
Durg दुर्ग	
town	
 <p style="text-align: center;">Coordinates: 21.19°N 81.28°E</p>	
Country	India
State	Chhattisgarh
Government	
• Mayor	Dr. Shiv Kumar Tamer
Area	
• Total	137 km ² (53 sq mi)
Elevation	289 m (948 ft)
Population (2011)	
• Total	268,679
• Density	2,000/km ² (5,100/sq mi)
Languages	
• Official	Hindi
Time zone	IST (UTC+5:30)
PIN	491001
Telephone code	0788
Sex ratio	982 ♂/♀
major city of chhattisgarh	

Google

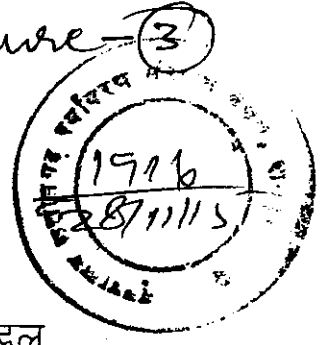
To see all the details that are visible on the screen, use the "Print" link next to the map.



To see all the details that are visible on the screen, use the "Print" link next to the map.



Annexure-3



क्षेत्रीय कार्यालय,

छत्तीसगढ़ पर्यावरण संरक्षण मण्डल,

व्यापार विहार पं. दीनदयाल उपाध्याय पार्क के पास, बिलासपुर (छ.ग.)

क्रमांक 1676 / क्षेत्रा / छ.ग.प.सं.मं. / 2015
प्रति,

बिलासपुर, दिनांक-18/11/2015

सदस्य सचिव,

मुख्यालय, छ.ग. पर्यावरण संरक्षण मंडल,
कबीर नगर, रायपुर (छ.ग.)

विषय:- दीपावली पर्व 2015 के आयोजन के दौरान परिवेशीय वायु एवं ध्वनि स्तर प्रबोधन के संबंध में।

- संदर्भ:-
1. मंडल मुख्यालय का पत्र क्रमांक 3497 दिनांक 27.10.2015
 2. मंडल मुख्यालय का पत्र क्रमांक 3917 दिनांक 17.11.2015

उपरोक्त विषयांतर्गत इस कार्यालय द्वारा दीपावली त्यौहार के अवसर पर ध्वनि स्तर मापन एवं परिवेशीय वायु गुणवत्ता मापन का कार्य किया गया है। परिवेशीय वायु गुणवत्ता मापन एवं ध्वनि स्तर मापन कार्य दीपावली पर्व के पूर्व दिनांक 05.11.2015 एवं दीपावली पर्व दिनांक 11.11.2015 को बिलासपुर शहर के दो चयनित स्थलों (01)- क्षेत्रीय कार्यालय भवन, व्यापार विहार, बिलासपुर एवं (02)- यातायात थाना के पास बिलासपुर में सम्पादित किया गया। विस्तृत प्रतिवेदन मंडल मुख्यालय से प्राप्त प्रपत्र में संकलित कर कृपया आवश्यक कार्यवाही हेतु प्रेषित है।

संलग्न:- उपरोक्तानुसार।

CE(I/c) / ACE(R/L)
SE(B/M/S) / EE / CC
PRO / SO(A/c) / Sr.O / SO-I

MEMBER SECRETARY

क्षेत्रीय अधिकारी


छ.ग.पर्यावरण संरक्षण मण्डल

बिलासपुर

A) Data sheet for Ambient Noise Monitoring before Deepawali Day

Description of Location: (1) At Office Building Vyapar Vihar, Bilaspur					Date 05/11/2015	
Noise Level Meter						
Make	:	Pulser				
Model	:	Pulser - 30				
Serial No.	:	T-219403				
Calibration Result of Noise Level Meter						
Calibration		94 dB at 1000Hz		114 dB at 1000Hz		
Initial		93.7		113.6		
Final		94.0		114.0		
Sampling rate		1 sec sampling period				
Time Duration	Sound Parameters dB(A)					
	Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
18:00 to 19:00 Hr	48.3	56.6	47.9	42.2	38.9	76.3
19:00 to 20:00 Hr	43.3	53.6	45.5	40.9	37.2	80.3
20:00 to 21:00 Hr	55.2	53.1	54.8	40.0	37.0	81.3
21:00 to 22:00 Hr	46.4	51.4	43.2	38.2	33.6	79.9
22:00 to 23:00 Hr	41.9	44.9	38.1	35.7	33.9	69.5
23:00 to 24:00 Hr	39.8	42.4	37.3	36.0	35.1	66.3
Average L equivalent dB(A)	45.81					

Data sheet for Ambient Noise Monitoring During Deepawali Day

Description of Location: (1) At Office Building Vyapar Vihar, Bilaspur					Date 11/11/2015	
Noise Level Meter						
Make	:	Pulser				
Model	:	Pulser - 30				
Serial No.	:	T-219403				
Calibration Result of Noise Level Meter						
Calibration		94 dB at 1000Hz		114 dB at 1000Hz		
Initial		93.7		113.6		
Final		94.0		114.0		
Sampling rate		1 sec sampling period				
	Sound Parameters dB(A)					
	Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
18:00 to 19:00 Hr	46.7	58.7	49.3	43.5	37.4	87.2
19:00 to 20:00 Hr	60.9	87.4	55.1	49.7	47.9	88.7
20:00 to 21:00 Hr	62.0	75.7	58.1	51.0	47.2	93.2
21:00 to 22:00 Hr	49.1	68.3	57.5	52.4	45.4	91.9
22:00 to 23:00 Hr	49.4	66.3	57.5	52.3	46.7	99.8
23:00 to 24:00 Hr	60.5	63.6	54.7	49.3	44.3	90.1
Average L equivalent dB(A)	54.76					
Monitoring team & signature						

(B) Data sheet for Ambient Noise Monitoring before Deepawali Day

Description of Location: (2) Traffic Police Thana, Bilaspur		Date 05/11/2015				
Noise Level Meter						
Make	:	Pulser				
Model	:	Pulser - 33				
Serial No.	:	T-224772				
Calibration Result of Noise Level Meter						
Calibration		94 dB at 1000Hz		114 dB at 1000Hz		
Initial		93.8		113.6		
Final		94.0		114.0		
Sampling rate		1 sec sampling period				
Time Duration	Sound Parameters dB(A)					
	Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
18:00 to 19:00 Hr	65.0	75.3	67.7	63.1	57.9	97.2
19:00 to 20:00 Hr	74.2	79.9	71.4	66.8	62.9	98.2
20:00 to 21:00 Hr	72.0	81.8	74.2	68.3	61.5	96.3
21:00 to 22:00 Hr	49.3	74.4	64.6	57.2	56.0	85.4
22:00 to 23:00 Hr	50.6	60.9	57.6	52.3	50.6	93.5
23:00 to 24:00 Hr	58.3	69.3	56.1	47.6	33.0	86.5
Average L equivalent dB(A)		61.56				

B) Data sheet for Ambient Noise Monitoring During Deepawali Day

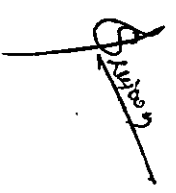
Description of Location: (2) Traffic Police Thana, Bilaspur		Date 11/11/2015				
Noise Level Meter						
Make	:	Pulser				
Model	:	Pulser - 33				
Serial No.	:	T-224772				
Calibration Result of Noise Level Meter						
Calibration		94 dB at 1000Hz		114 dB at 1000Hz		
Initial		93.9		113.9		
Final		94.0		114.0		
Sampling rate		1 sec sampling period				
	Sound Parameters dB(A)					
	Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
18:00 to 19:00 Hr	81.4	72.8	62.7	51.5	39.4	100.4
19:00 to 20:00 Hr	63.3	74.5	65.7	59.3	47.6	97.8
20:00 to 21:00 Hr	72.3	79.0	71.8	65.8	59.1	104.5
21:00 to 22:00 Hr	82.8	82.4	71.0	65.7	58.0	118.0
22:00 to 23:00 Hr	40.8	73.2	62.0	52.4	39.5	111.2
23:00 to 24:00 Hr	55.0	57.6	44.8	37.9	35.1	79.4
Average L equivalent dB(A)		65.93				
Monitoring team & signature						

AMBIENT AIR QUALITY OF BILASPUR
DATA SHEET FOR PARTICULATE MATTER

Annexure-II

Station: (1) At office building Vyapar Vihar Bilaspur		Date: 05/11/2015		
Shift	Ist Shift	IInd Shift	IIIRD Shift	
Monitoring Period	06:00 AM - 02:00 PM	02:00 PM - 10:00 PM	10:00 PM - 06:00 AM	
Parameter	RSPM	RSPM	RSPM	
Filter Paper No.	15	16	17	
Hourly Flow Rate (m ³ /minute)	1.13	1.15	1.14	
	1.12	1.14	1.13	
	1.11	1.13	1.12	
	1.12	1.14	1.13	
Average Flow Rate (m ³ /minute)	480.0	480.0	480.0	
Total Operation Time (Minutes)	2.7298	2.8387	2.7624	
Initial Weight of Filter Paper (gms.)	2.7832	2.8957	2.8144	
Dust Contents (gms.)	0.0534	0.057	0.052	
Total Volume of Air Sampled (m ³)	537.6	547.2	542.4	
Concentration (µg/m ³)	99.33	104.16	95.87	
24 Hourly Average RSPM (µg/m ³)	99.79			
Remarks:	-			
Name & Signature of Official on Duty:	Sanjay Mishra (Lab Att.) & K. P. Tiwari (Lab Asstt.)			





 Sanjay Mishra

 K. P. Tiwari

AMBIENT AIR QUALITY OF BILASPUR
DATA SHEET FOR PARTICULATE MATTER

Annexure-II

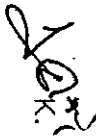
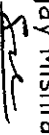
Station: (1) At office building Vyapar Vihar Bilaspur		Date: 11/11/2015		
Shift	Ist Shift	IInd Shift	IIIRD Shift	
Monitoring Period	06:00 AM - 02:00 PM	02:00 PM - 10:00 PM	10:00 PM - 06:00 AM	
Parameter	RSPM	RSPM	RSPM	
Filter Paper No.	26	27	28	
Hourly Flow Rate (m ³ /minute)	1.13	1.15	1.14	
	1.12	1.14	1.13	
	1.11	1.13	1.12	
Average Flow Rate (m ³ /minute)	1.12	1.14	1.13	
Total Operation Time (Minutes)	480.0	480.0	480.0	
Initial Weight of Filter Paper (gms.)	2.7551	2.7771	2.7619	
Final Weight of Filter Paper (gms.)	2.8219	2.8655	2.8289	
Dust Contents (gms.)	0.0668	0.0884	0.067	
Total Volume of Air Sampled (m ³)	537.6	547.2	542.4	
Concentration (µg/m ³)	124.25	161.54	123.52	
24 Hourly Average RSPM (µg/m ³)	136.43			
Remarks:				
Name & Signature of Official on Duty:	 R.K. P. Tiwari (Lab Asstt.) & Sanjay Mishra 			





AMBIENT AIR QUALITY OF BILASPUR
DATA SHEET FOR PARTICULATE MATTER

Annexure-II


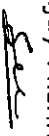
Station: (2) Traffic Police Thana, Bilaspur		Date: 05/11/2015		
Shift	Ist Shift	IIInd Shift	IIIRD Shift	
Monitoring Period	06:00 AM - 02:00 PM	02:00 PM - 10:00 PM	10:00 PM - 06:00 AM	
Parameter	RSPM	RSPM	RSPM	
Filter Paper No.	18	19	20	
Hourly Flow Rate (m ³ /minute)	1.06	1.10	1.05	
	1.04	1.08	1.03	
	1.02	1.00	1.01	
Average Flow Rate (m ³ /minute)	1.04	1.06	1.03	
Total Operation Time (Minutes)	480.0	480.0	331.4	
Initial Weight of Filter Paper (gms.)	2.7312	2.7709	2.7419	
Final Weight of Filter Paper (gms.)	2.8023	2.8496	2.7876	
Dust Contents (gms.)	0.0711	0.0787	0.0457	
Total Volume of Air Sampled (m ³)	499.2	508.8	341.34	
Concentration (µg/m ³)	142.42	154.67	133.88	
24 Hourly Average RSPM (µg/m ³)	143.65			
Remarks:				
Name & Signature of Official on Duty:	 P. Tiwari (Lab Asstt.) & Sanjay Mishra, (Lab Att.) 			





AMBIENT AIR QUALITY OF BILASPUR
DATA SHEET FOR PARTICULATE MATTER

Annexure-II

Station: (2) Traffic Police Thana, Bilaspur		Date: 11/11/2015		
Shift	Ist Shift	IInd Shift	IIIRD Shift	
Monitoring Period	06:00 AM - 02:00 PM	02:00 PM - 10:00 PM	10:00 PM - 06:00 AM	
Parameter	RSPM	RSPM	RSPM	
Filter Paper No.	29	30	31	
Hourly Flow Rate (m ³ /minute)	1.13 1.12 1.11	1.14 1.13 1.12	1.13 1.12 1.11	
Average Flow Rate (m ³ /minute)	1.12	1.13	1.12	
Total Operation Time (Minutes)	480.0	480.0	480.0	
Initial Weight of Filter Paper (gms.)	2.7145	2.8026	2.7052	
Final Weight of Filter Paper (gms.)	2.8043	2.8956	2.7943	
Dust Contents (gms.)	0.0914	0.093	0.0891	
Total Volume of Air Sampled (m ³)	537.6	542.4	537.6	
Concentration (µg/m ³)	167.03	171.46	165.73	
24 Hourly Average RSPM (µg/m ³)	168.07			
Remarks:				
Name & Signature of Official on Duty:	 P. Tiwari (Lab Asstt.) & Sanjay Mishra, (Lab Att.) 			

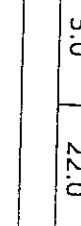
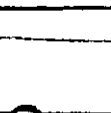










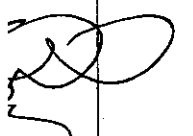
AMBIENT AIR QUALITY OF BILASPUR
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Annexure-III

Station: (1) At office building Vyapar Vihar Bilaspur		Date: 05/11/2015												
Shift	Monitoring Period	Ist Shift				IInd Shift				IIInd Shift				
		06:00AM-10:00AM	10:00AM-02:00PM	02:00PM-06:00PM	06:00PM-10:00PM	10:00PM-02:00AM	02:00AM-06:00PM	06:00AM-10:00AM	10:00AM-02:00AM	02:00AM-06:00PM	06:00AM-10:00AM	10:00AM-02:00AM		
Parameter	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂
Hourly Flow Rate (Imp)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow Rate (Imp)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minutes)	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Initial Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Final Volume of Sample (ml)	25.0	25.0	23.0	23.0	25.0	25.0	28.0	28.0	30.0	30.0	30.0	30.0	30.0	30.0
Volume Taken for Analysis (ml)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Total Volume of Air Sampled (lit.)	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Absorbance (Blank)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Absorbance (Sample)	0.4	1.45	0.4	1.45	0.5	1.5	0.5	1.5	0.3	1.4	0.3	1.4	0.3	1.4
Concentration (µg/m ³)	5.0	22.0	5.0	22.0	6.0	23.0	6.0	23.0	4.0	21.0	4.0	21.0	4.0	21.0
24 Hourly Average SO ₂ (µg/m ³):	5.0													
24 Hourly Average NO ₂ (µg/m ³):	22.0													
Remarks:														
Name & Signature of Official on Duty:	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">  K. P. Tiwari (Lab Asstt.) & Sanjay Mishra, (Lab Att.) </div> <div style="width: 30%; text-align: center;">  Sanjay Mishra </div> <div style="width: 30%; text-align: right;">  </div> </div>													

AMBIENT AIR QUALITY OF BILASPUR
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Annexure-III

Station: (1) At office building Vyapar Vihar Bilaspur		Date: 11/11/2015															
Shift	Monitoring Period	Ist Shift				IInd Shift				IIId Shift							
		SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂				
Hourly Flow Rate (Imp)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow Rate (lpm)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minutes)		240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Initial Volume of Sample (ml)		30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Final Volume of Sample (ml)		25.0	25.0	23.0	23.0	25.0	25.0	28.0	28.0	25.0	25.0	28.0	28.0	25.0	25.0	28.0	28.0
Volume Taken for Analysis (ml)		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Total Volume of Air Sampled (lit.)		240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Absorbance (Blank)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Absorbance (Sample)		0.6	1.6	0.6	1.6	0.7	1.65	0.7	1.7	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5
Concentration (µg/m ³)		8.0	24.0	8.0	24.0	9.0	25.0	9.0	26.0	6.0	23.0	6.0	23.0	6.0	23.0	6.0	23.0
24 Hourly Average SO ₂ (µg/m ³):		8.0				24.16				24.16							
24 Hourly Average NO ₂ (µg/m ³):																	
Remarks:																	
Name & Signature of Official on Duty:	Sanjay Mishra (Lab Att.) & K. P. Tiwari (Lab Assst.)    																

AMBIENT AIR QUALITY OF BILASPUR
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Annexure-III

Station: (2) Traffic Police Thana, Bilaspur

Date: 05/11/2015

Shift	1st Shift						IInd Shift						IIInd Shift					
	06:00AM-10:00AM	10:00AM-02:00PM	02:00PM-06:00PM	06:00PM-10:00PM	10:00PM-02:00AM	02:00AM-06:00PM	06:00AM-10:00AM	10:00AM-02:00PM	02:00PM-06:00PM	06:00PM-10:00PM	10:00PM-02:00AM	02:00AM-06:00PM	06:00AM-10:00AM	10:00AM-02:00PM	02:00PM-06:00PM	06:00PM-10:00PM		
Parameter	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂		
Hourly Flow Rate (Imp)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Average Flow Rate (Ipm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Total Operation Time (Minutes)	240	240	240	240	240	240	240	240	240	240	240	240	240	240	165.7	165.7		
Initial Volume of Sample (ml)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
Final Volume of Sample (ml)	28	28	25	25	25	25	28	28	28	30	30	30	30	30	30	30		
Volume Taken for Analysis (ml)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
Total Volume of Air Sampled (lit.)	240	240	240	240	240	240	240	240	240	240	240	240	240	240	165.7	165.7		
Absorbance (Blank)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Absorbance (Sample)	0.8	1.8	0.8	1.8	0.9	1.9	0.9	1.9	0.9	1.9	0.6	1.7	0.4	1.3	0.4	1.3		
Concentration (µg/m ³)	10.0	27.0	10.0	27.0	11.0	29.0	11.0	29.0	11.0	29.0	8.0	26.0	7.0	28.0	7.0	28.0		
24 Hourly Average SO ₂ (µg/m ³):	9.5						24 Hourly Average NO ₂ (µg/m ³):						27.6					
Remarks:																		
Name & Signature of Official on Duty:	Sanjay Mishra (Lab Att.) & K. P. Tiwari (Lab Asstt.)																	

Sanjay Mishra (Lab Att.) & K. P. Tiwari (Lab Asstt.)

[Signatures]

AMBIENT AIR QUALITY OF BILASPUR
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Annexure-III

Station: (2) Traffic Police Thana, Bilaspur	Date: 11/11/2015							
	Ist Shift				IInd Shift			
Monitoring Period	06:00AM-10:00AM	10:00AM-02:00PM	02:00PM-06:00PM	06:00PM-10:00PM	10:00PM-02:00AM	02:00AM-06:00PM	IIrd Shift	
Parameter	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂	SO ₂	NO ₂
Hourly Flow Rate (Imp)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minutes)	240	240	240	240	240	240	240	240
Initial Volume of Sample (ml)	30	30	30	30	30	30	30	30
Final Volume of Sample (ml)	28	28	25	25	29	29	30	30
Volume Taken for Analysis (ml)	10	10	10	10	10	10	10	10
Total Volume of Air Sampled (lit.)	240	240	240	240	240	240	240	240
Absorbance (Blank)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Absorbance (Sample)	0.9	1.9	0.95	1.9	1.0	2.1	0.9	1.85
Concentration (µg/m ³)	11.0	29.0	12.0	30.0	13.0	32.0	11.0	28.0
24 Hourly Average SO ₂ (µg/m ³):	12.0				30.6			
24 Hourly Average NO ₂ (µg/m ³):	12.0				30.6			
Remarks:								
Name & Signature of Official on Duty:								

K.P. Tiwari (Lab Asstt.) & Sanjay Mishra, (Lab Att.)

Format Report: Deepawali Monitoring 2015

City : Bilaspur

- Latitude & Longitude : 82° 8' 07", 22° 5' 00"
- Climate/Meteorology : The Climate is pleasant & mild in the winter (minimum tem. 10°C, 50°F) there are medium range in monsoon season the summer is very Hot & Dry. (Maximum Temperature +45°C, 113°F)
- Population : 3,30,106 (169738 -M, 160368 -F)
- Major Land use : Commercial & Residential.

Monitoring Locations

: A. Office Building, Vyapar Vihar Bilaspur

B. Traffic Police Thana Bilaspur

- Map Showing all monitoring locations of the city : Enclosed
- Description of monitoring site : Commercial
- Activities around the monitoring location /Sources of Noise Pollution : Commercial & Vehicular Activities.

Data/Observation:

Noise Level during Deepawali Festival, 2015:

(1) Office building, Vyapar Vihar, Bilaspur

Location: (1)	Normal Day			Deepawali Day		
	Time duration	Lmin	Lmax	Leq dB (A)	Lmin	Lmax
18:00 to 19:00 Hr	38.9	76.3	48.3	37.4	87.2	46.7
19:00 to 20:00 Hr	37.2	80.3	43.3	47.9	88.7	60.9
20:00 to 21:00 Hr	37.0	81.3	55.2	47.2	93.2	62.0
21:00 to 22:00 Hr	33.6	79.9	46.4	45.4	91.9	49.1
22:00 to 23:00 Hr	33.9	69.5	41.9	46.7	99.8	49.4
23:00 to 24:00 Hr	35.1	66.3	39.8	44.3	90.1	60.5

(2) Traffic Police Thana, Bilaspur

Location: (2)	Normal Day			Deepawali Day		
	Time duration	Lmin	Lmax	Leq dB (A)	Lmin	Lmax
18:00 to 19:00 Hr	57.9	97.2	65.0	39.4	100.4	81.4
19:00 to 20:00 Hr	62.9	98.2	74.2	47.6	97.8	63.3
20:00 to 21:00 Hr	61.5	96.3	72.0	59.1	104.5	72.3
21:00 to 22:00 Hr	56.0	85.4	49.3	58.0	118.0	82.8
22:00 to 23:00 Hr	50.6	93.5	50.6	39.5	111.2	40.8
23:00 to 24:00 Hr	33.0	86.5	58.3	35.1	79.4	55.0

Interpretation of Noise Data/Results:

Noise level at location 'A' in normal day found within prescribed limits & at location 'B' found in day time above prescribed standard. Sound level during Deepawali day both location 'A' & 'B' are found above normal day & prescribed standard. Sound level above prescribed limit due to Vehicular Activities & fire crackers.

Ambient Air Monitoring during Deepawali festival, 2015 :

Data/Observations:

Ambient Air Quality during Deepawali, 2015						
Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali Day (11.11.2015)		
	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀
1	5.00	22.00	99.79	8.00	24.16	136.43
2	9.50	27.60	143.65	12.00	30.60	168.07
NAAQ Standards	80	80	100	80	80	100

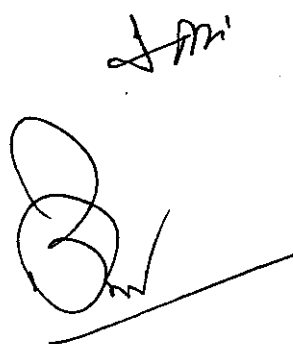
*All Values (24 hourly Avg) are in $\mu\text{g}/\text{m}^3$.

Remarks :-

1. Office building, Vyapar Vihar, Bilaspur
2. Traffic Police Thana, Bilaspur

Interpretation of NAAQ Data/Results:

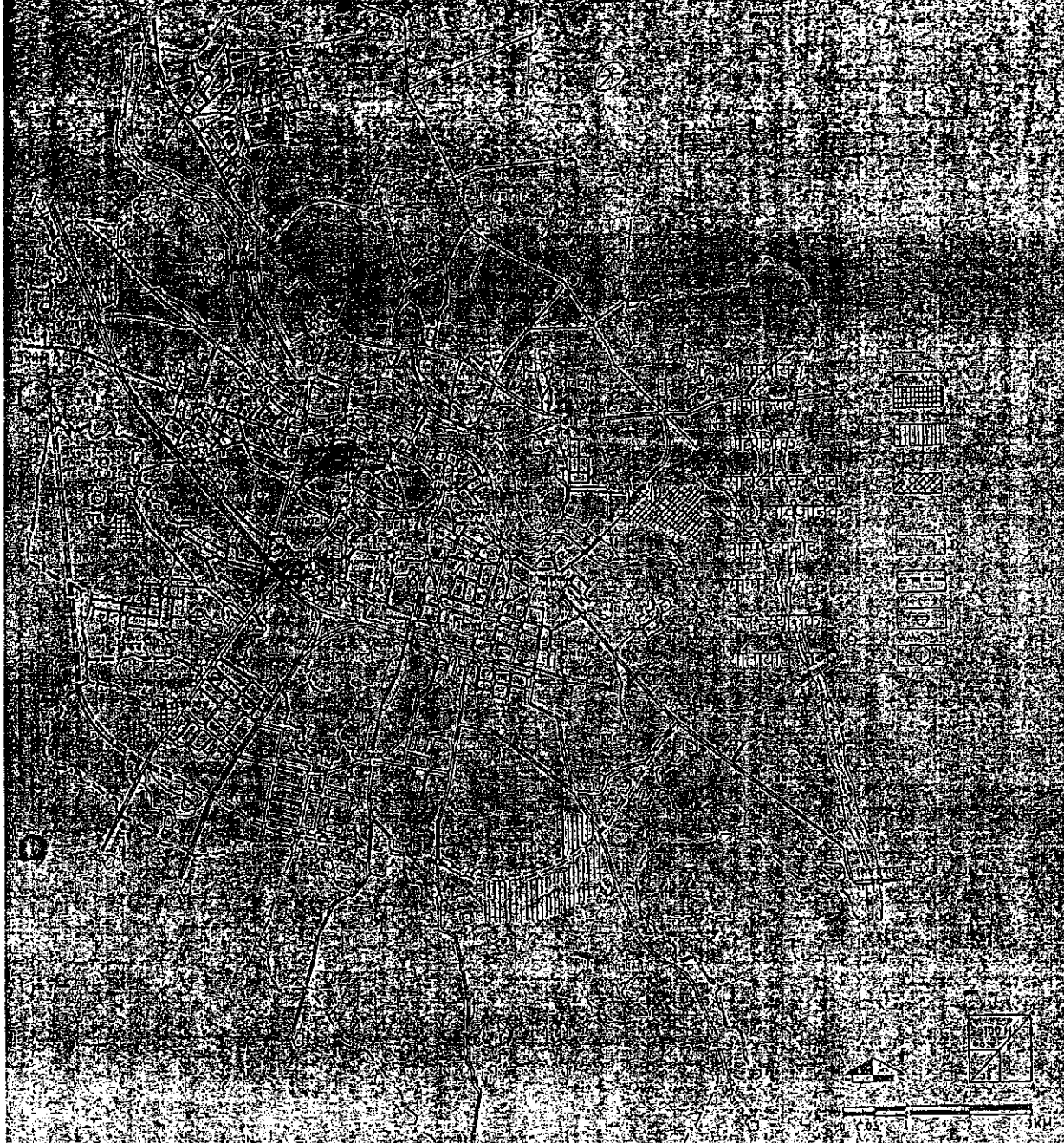
PM₁₀ in Ambient Air at location '1' in normal day found within prescribed limits & at location '2' found in day time above prescribed standard. **PM₁₀** in Ambient Air during Deepawali day both location '1' & '2' are found above normal day & prescribed standard. **PM₁₀** in Ambient Air above prescribed limit due to Vehicular Activities & fire crackers.

BILASPUR CITY

Location Points of Ambient Air & Sound Level
Monitoring during Deepawali festival

1. Office Building Near Garden
2. Near Traffic Police Thana



Annexure-4



क्षेत्रीय कार्यालय
छ.ग. पर्यावरण संरक्षण मंडल
टी. वी. टावर रोड, रायगढ़ (छ.ग.)



क्र 1061 / वैज्ञा. / पर्या.सं.म. / 2015

रायगढ़ दिनांक 26/11/2015

प्रति,

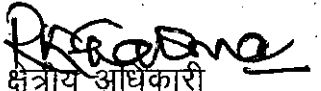
✓ सदस्य सचिव
छ.ग. पर्यावरण संरक्षण मंडल,
रायपुर (छ.ग.)

विषय : Monitoring of Ambient Air and Noise during Deepawali Festival 2015-Reg.

संदर्भ : मंडल मुख्यालय का पत्र क्र. A21018/7/13, दिनांक 30.09.2015

उपरोक्त विषयान्तर्गत संदर्भित पत्र के परिपालन में इस कार्यालय द्वारा दिपावली पर्व के पूर्व एवं दौरान परिवेशीय वायु गुणवत्ता मापन व ध्वनि स्तर मापन का कार्य किया गया जिसकी रिपोर्ट निर्धारित प्रपत्र संलग्नक 1, 2, 3 एवं 4 में भरकर, आवश्यक कार्यवाही हेतु कृपया प्रेषित है।

संलग्न- उपरोक्तानुसार ।


क्षेत्रीय अधिकारी

छ.ग. पर्यावरण संरक्षण मंडल, रायगढ़

CE(VO) / ACE(R/L)
SE(B/M/S) / EE / CC
PRO / SO(A/C) / S.O / SO-III



MEMBER SECRETARY

R.O. CECB RAIGARH
AMBENT AIR QUALITY OF RAIGARH
DATA SHEET FOR PARTICULATE MATTER

Annexure - 1

Station : R.O., CECB, RAIGARH		Date :- 05.11.2015 (Before Deepawali)				
Shift	Ist Shift		IInd Shift		IIInd Shift	
Monitoring Period	06:00 AM - 02:00 PM	02:00 PM - 10:00 PM	10:00 PM - 6:00 AM			
Parameter	SPM	RSPM	SPM	RSPM	SPM	RSPM
Filter -Paper No.	D1	--	D2	--	D3	--
Hourly Flow Rate (M ³ / Minute)	1.25	--	1.25	--	1.250	--
	1.225	--	1.25	--	1.250	--
	1.225	--	1.225	--	1.225	--
	1.2	--	1.2	--	1.225	--
	1.2	--	1.2	--	1.200	--
	1.175	--	1.2	--	1.200	--
	1.175	--	1.175	--	1.175	--
	1.15	--	1.175	--	1.150	--
	1.15	--	1.175	--	1.150	--
	1.194	--	1.208	--	1.202	--
Average Flow Rate (M ³ / Minute)	1.194	--	1.208	--	1.202	--
Total Operation Time (Minutes)	480	--	480	--	480	--
Initial Weight of Filter Paper (gms.)	2.7126	--	2.7164	--	2.7145	--
Final Weight of Filter Paper (gms.)	2.7929	--	2.8219	--	2.7984	--
Dust Contents (gms.)	0.0803	--	0.1055	--	0.0839	--
Total Volume of Air Sampled (M ³)	573.12	--	579.84	--	576.96	--
Concentration (µg/m ³)	140.11	--	181.94	--	145.41	--
24 Hourly Average SPM (µg/m ³):	155.82		24 Hourly Average RSPM (µg/m ³)		--	
Remarks :	R.O. office is situated in residential area.					
Name & Signature of Official on duty	S.K. Pradhan	H. S. Soni	S.K. Pradhan		S.K. Pradhan	

R.O. CEGB RAIGARH
 AMBIENT AIR QUALITY OF RAIGARH
 DATA SHEET FOR PARTICULATE MATTER

Station : LOCHAN NAGAR, RAIGARH		Date :- 05.11.2015 (Before Deepawali)			
Shift	Ist Shift		IInd Shift		III Shift
Monitoring Period	06:00 AM - 02:00 PM	02:00 PM - 10:00 PM		10:00 PM - 6:00 AM	
Parameter	SPM	RSPM	SPM	RSPM	SPM
Filter - Paper No.	D4	--	D5	--	D6
Hourly Flow Rate (M ³ /Minute)	1.300	--	1.3	--	1.3
	1.300	--	1.3	--	1.3
	1.275	--	1.275	--	1.275
	1.275	--	1.275	--	1.275
	1.275	--	1.25	--	1.25
	1.250	--	1.225	--	1.25
	1.250	--	1.225	--	1.225
	1.250	--	1.2	--	1.225
	1.225	--	1.2	--	1.2
	1.266	--	1.25	--	1.255
Total Average Flow Rate (M ³ /Minute)	480	--	460	--	480
Total Operation Time (Minutes)	2.7192	--	2.7148	--	2.7189
Initial Weight of Filter Paper (gms.)	2.8008	--	2.8125	--	2.8123
Final Weight of Filter Paper (gms.)	0.0816	--	0.0977	--	0.0934
Dust Contents (gms.)	607.68	--	575	--	602.4
Total Volume of Air Sampled (M ³)	134.28	--	169.91	--	155.04
Concentration ($\mu\text{g}/\text{m}^3$)					
24 Hourly Average SPM ($\mu\text{g}/\text{m}^3$):	153.07		24 Hourly Average RSPM ($\mu\text{g}/\text{m}^3$)		--
Remarks :	Residential area.				
Name & Signature of Official on duty	S.K. Pradhan		H. S. Soni 		S.K. Pradhan

R.O. CECCB RAIGARH
 AMBIENT AIR QUALITY OF RAIGARH
 DATA SHEET FOR PARTICULATE MATTER

Annexure - I

Station : R.O., CECCB, RAIGARH		Date :- 11.11.2015 (During Deepawali)		
Shift	Ist Shift		IIInd Shift	III Shift
Monitoring Period	06:00 AM - 02:00 PM		02:00 PM - 10:00 PM	10:00 PM - 6:00 AM
Parameter	SPM	RSPM	SPM	RSPM
Filter -Paper No.	D7	--	D8	--
Hourly Flow Rate (M ³ / Minute)	1.25	--	1.25	1.25
	1.25	--	1.25	1.225
	1.225	--	1.225	1.225
	1.225	--	1.225	1.2
	1.2	--	1.2	1.2
	1.2	--	1.175	1.175
	1.175	--	1.15	1.175
	1.175	--	1.15	1.175
	1.15	--	1.125	1.15
Average Flow Rate (M ³ / Minute)	1.205	--	1.194	1.197
Total Operation Time (Minutes)	480	--	460	480
Initial Weight of Filter Paper (gms.)	2.7108	--	2.7133	2.7175
Final Weight of Filter Paper (gms.)	2.8433	--	2.8985	2.8714
Dust Contents (gms.)	0.1325	--	0.1852	0.1539
Total Volume of Air Sampled (M ³)	578.4	--	549.24	574.56
Concentration (µg/m ³)	229.08	--	337.19	267.85
24 Hourly Average SPM (µg/m ³):	278.04		24 Hourly Average RSPM (µg/m ³) &	
Remarks :	R.O. office is situated in residential area.			
Name & Signature of Official on duty	H. S. Soni <i>[Signature]</i>	H. S. Soni <i>[Signature]</i>	H. S. Soni <i>[Signature]</i>	

R.O. CECB RAIGARH
 AMBIENT AIR QUALITY OF RAIGARH
 DATA SHEET FOR PARTICULATE MATTER

Station : LOCHAN NAGAR, RAIGARH		Date :- 11.11.2015 (During Deepawali)			
Shift	Ist Shift		IInd Shift		III Shift
Monitoring Period	06:00 AM - 02:00 PM		02:00 PM - 10:00 PM		10:00 PM - 6:00 AM
Parameter	SPM	RSPM	SPM	RSPM	SPM
Filter -Paper No.	D10	--	D11	--	D12
Hourly Flow Rate (M ³ / Minute)	1.300	--	1.3	--	1.300
	1.275	--	1.275	--	1.275
	1.250	--	1.25	--	1.275
	1.250	--	1.25	--	1.250
	1.225	--	1.225	--	1.250
	1.225	--	1.2	--	1.225
	1.200	--	1.175	--	1.225
	1.200	--	1.15	--	1.200
	1.175	--	1.15	--	1.200
	1.175	--	1.15	--	1.200
Average Flow Rate (M ³ / Minute)	1.233	--	1.219	--	1.244
Total Operation Time (Minutes)	480	--	470	--	480
Initial Weight of Filter Paper (gms.)	2.7182	--	2.7141	--	2.7173
Final Weight of Filter Paper (gms.)	2.8862	--	2.9445	--	2.8911
Dust Contents (gms.)	0.1680	--	0.2304	--	0.1738
Total Volume of Air Sampled (M ³)	591.84	--	572.93	--	597.12
Concentration ($\mu\text{g}/\text{m}^3$)	283.86	--	402.14	--	291.06
24 Hourly Average SPM ($\mu\text{g}/\text{m}^3$):	325.68		24 Hourly Average RSPM ($\mu\text{g}/\text{m}^3$)		--
Remarks :	Residential area.				
Name & Signature of Official on duty	H. S. Soni <i>[Signature]</i>	H. S. Soni <i>[Signature]</i>	H. S. Soni <i>[Signature]</i>		H. S. Soni <i>[Signature]</i>

R.O. CEGB RAIGARH
AMBIENT AIR QUALITY OF RAIGARH
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Annexure - II

Station : R.O., CEGB, RAIGARH

Date: 05.11.2015 (Before Deepawali)

Shift	1st Shift				IInd Shift				IIIrd Shift															
	06:00AM - 10:00AM	10:00AM - 02:00PM	02:00PM - 06:00PM	06:00PM - 10:00PM	10:00PM - 02:00 AM	02:00 AM - 06:00 AM	06:00 AM - 10:00 AM	10:00 AM - 02:00 AM	02:00 AM - 06:00 AM	06:00 AM - 10:00 AM	10:00 AM - 02:00 AM	02:00 AM - 06:00 AM												
Monitoring Period	06:00AM - 10:00AM				10:00AM - 02:00PM				02:00PM - 06:00PM				06:00PM - 10:00PM				10:00PM - 02:00 AM				02:00 AM - 06:00 AM			
Parameter	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2		
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Average Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Total Operation Time (Minutes)	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240		
Initial Volume of Sample (ml)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
Final Volume of Sample (ml)	28	28	28	28	24	24	25	25	28	28	28	28	28	28	28	28	28	28	28	28	28	28		
Volume Taken for Analysis (ml)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
Total Volume of Air Sampled (lit.)	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240		
Absorbance (Blank)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Absorbance (Sample)	0.011	0.020	0.011	0.022	0.010	0.023	0.011	0.024	0.012	0.012	0.012	0.012	0.01	0.017	0.01	0.017	0.01	0.017	0.01	0.017	0.01	0.017		
Concentration (ug/m3)	9.82	14.74	9.28	16.26	8.43	17.00	9.82	17.73	10.12	15.52	8.43	12.56	8.43	12.56	8.43	12.56	8.43	12.56	8.43	12.56	8.43	12.56		
24 Hourly Average SO2(ug/m3)-	9.31				24 Hourly Average NO2 (ug/m3) -				15.63															
Remark's	R.O. office is situated in residential area.																							
Name & Signature of Official on Duty	S.K. Pradhan						H. S. Soni <i>[Signature]</i>						S.K. Pradhan											

R.O. CECPB RAIGARH
AMBIENT AIR QUALITY OF RAIGARH
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Station: LOCHAN NAGAR, RAIGARH

Date:- 05.11.2015 (Before Deepawali)

Shift	1st Shift				IInd Shift				IIIrd Shift											
	06:00AM - 10:00AM	10:00AM - 02:00PM	02:00PM - 06:00PM	06:00PM - 10:00PM	10:00PM - 02:00 AM	02:00 AM - 06:00 AM	06:00AM - 10:00AM	10:00AM - 02:00PM	02:00PM - 06:00PM	06:00PM - 10:00PM	10:00PM - 02:00 AM	02:00 AM - 06:00 AM								
Monitoring Period	06:00AM - 10:00AM				10:00AM - 02:00PM				02:00PM - 06:00PM				10:00PM - 02:00 AM				02:00 AM - 06:00 AM			
Parameter	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2				
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
Average Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
Total Operation Time (Minutes)	210	240	205	220	240	210	240	240	240	220	205	240	240	205	240	240				
Total Volume of Sample (ml)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
Final Volume of Sample (ml)	25	28	28	28	28	25	25	25	25	28	28	28	28	28	28	28				
Volume Taken for Analysis (ml)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
Total Volume of Air Sampled (lit.)	210	240	205	220	240	210	240	240	240	220	205	240	240	205	240	240				
Absorbance (Blank)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Absorbance (Sample)	0.012	0.019	0.011	0.02	0.011	0.024	0.012	0.024	0.012	0.012	0.023	0.012	0.019	0.023	0.012	0.019				
Concentration (ug/m3)	10.12	14.04	9.82	14.78	9.82	17.73	10.12	17.73	10.12	10.96	17	10.12	14.04	17	10.12	14.04				
24 Hourly Average SO2(ug/m3) -	10.16				24 Hourly Average No2 (ug/m3)-				15.88											
Remarks	Residential area.																			
Name & Signature of Official on Duty	S.K. Pradhan				H. S. Soni				S.K. Pradhan											

R.O. CECB RAIGARH
AMBIENT AIR QUALITY OF RAIGARH
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Station : R.O., CEGB, RAIGARH

Date: 11.11.2015 (During Deepawali)

Shift	1st Shift				IInd Shift				IIIrd Shift			
	06:00AM-10:00AM	10:00AM-02:00PM	02:00PM-06:00PM	06:00PM-10:00PM	10:00PM-02:00 AM	02:00 AM-06:00 AM	06:00AM-10:00AM	10:00AM-02:00PM	02:00 AM-06:00 AM	06:00AM-10:00AM	10:00AM-02:00PM	02:00 AM-06:00 AM
Monitoring Period	06:00AM-10:00AM				02:00PM-06:00PM				10:00PM-02:00 AM			
Parameter	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minutes)	240	240	240	240	240	240	240	240	220	220	240	240
Final Volume of Sample (ml)	30	30	30	30	30	30	30	30	30	30	30	30
Volume Taken for Analysis (ml)	28	28	28	28	24	24	25	25	28	28	28	28
Total Volume of Air Sampled (lit.)	240	240	240	240	240	240	240	240	220	220	240	240
Absorbance (Blank)	0	0	0	0	0	0	0	0	0	0	0	0
Absorbance (Sample)	0.016	0.024	0.017	0.029	0.019	0.032	0.033	0.043	0.036	0.044	0.034	0.041
Concentration (ug/m ³)	13.5	17.73	14.34	21.43	16.03	23.65	27.84	30.30	30.37	32.52	28.68	30.30
24 Hourly Average SO ₂ (ug/m ³) -	21.79				24 Hourly Average NO ₂ (ug/m ³) -				25.98			
Remarks	R.O. office is situated in residential area.											
Name & Signature of Official on Duty	H. S. Soni <i>[Signature]</i>				H. S. Soni <i>[Signature]</i>				H. S. Soni <i>[Signature]</i>			

R.O. CE/CB RAIGARH

AMBIENT AIR QUALITY OF RAIGARH

DATA SHEET FOR GASEOUS AIR POLLUTANTS

Station: LOCHAN NAGAR, RAIGARH

Date: - 11.11.2015 (During Deepawali)

Shift	1st Shift				IInd Shift				IIIrd Shift															
	06:00AM -10:00AM	10:00AM- 02:00PM	02:00PM- 06:00PM	06:00PM-10:00PM	10:00PM - 02:00 AM	02:00 AM - 06:00 AM	06:00AM -10:00AM	10:00AM - 02:00 AM	02:00 AM - 06:00 AM	06:00AM -10:00AM	10:00PM - 02:00 AM	02:00 AM - 06:00 AM												
Monitoring Period	06:00AM -10:00AM				10:00AM- 02:00PM				02:00PM- 06:00PM				06:00PM-10:00PM				10:00PM - 02:00 AM				02:00 AM - 06:00 AM			
Parameter	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2		
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
	1.0	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
	1.0	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Average Flow Rate (lpm)	1.0	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Total Operation Time (Minutes)	240	240	240	240	240	210	240	240	240	240	210	240	240	210	240	240	240	240	240	240	240	240		
Initial Volume of Sample (ml)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
Final Volume of Sample (ml)	25	28	26	26	28	27	25	25	25	25	27	25	25	27	25	25	25	25	25	25	25	25		
Volume Taken for Analysis (ml)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
Total Volume of Air Sampled (lit.)	240	240	240	240	240	210	240	240	240	240	210	240	240	210	240	240	240	240	240	240	240	240		
Absorbance (Blank)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Absorbance (Sample)	0.021	0.025	0.018	0.030	0.017	0.043	0.034	0.044	0.037	0.033	0.033	0.036	0.042	0.033	0.033	0.036	0.042	0.033	0.033	0.036	0.042	0.042		
Concentration (ug/m ³)	17.71	18.47	15.18	22.17	14.34	31.78	28.68	32.52	31.21	24.39	30.37	31.04	26.72	26.72	26.72	26.72	26.72	26.72	26.72	26.72	26.72	26.72		
24 Hourly Average SO ₂ (ug/m ³) -	22.91				24 Hourly Average NO ₂ (ug/m ³)-				26.72				26.72											
Remark's	Hospital is situated in sensitive and residential area.																							
Name & Signature of Official on Duty	H. S. Soni <i>[Signature]</i>					H. S. Soni <i>[Signature]</i>					H. S. Soni <i>[Signature]</i>					H. S. Soni <i>[Signature]</i>								

Data Sheet for Ambient Noise Monitoring on Deepawali Day

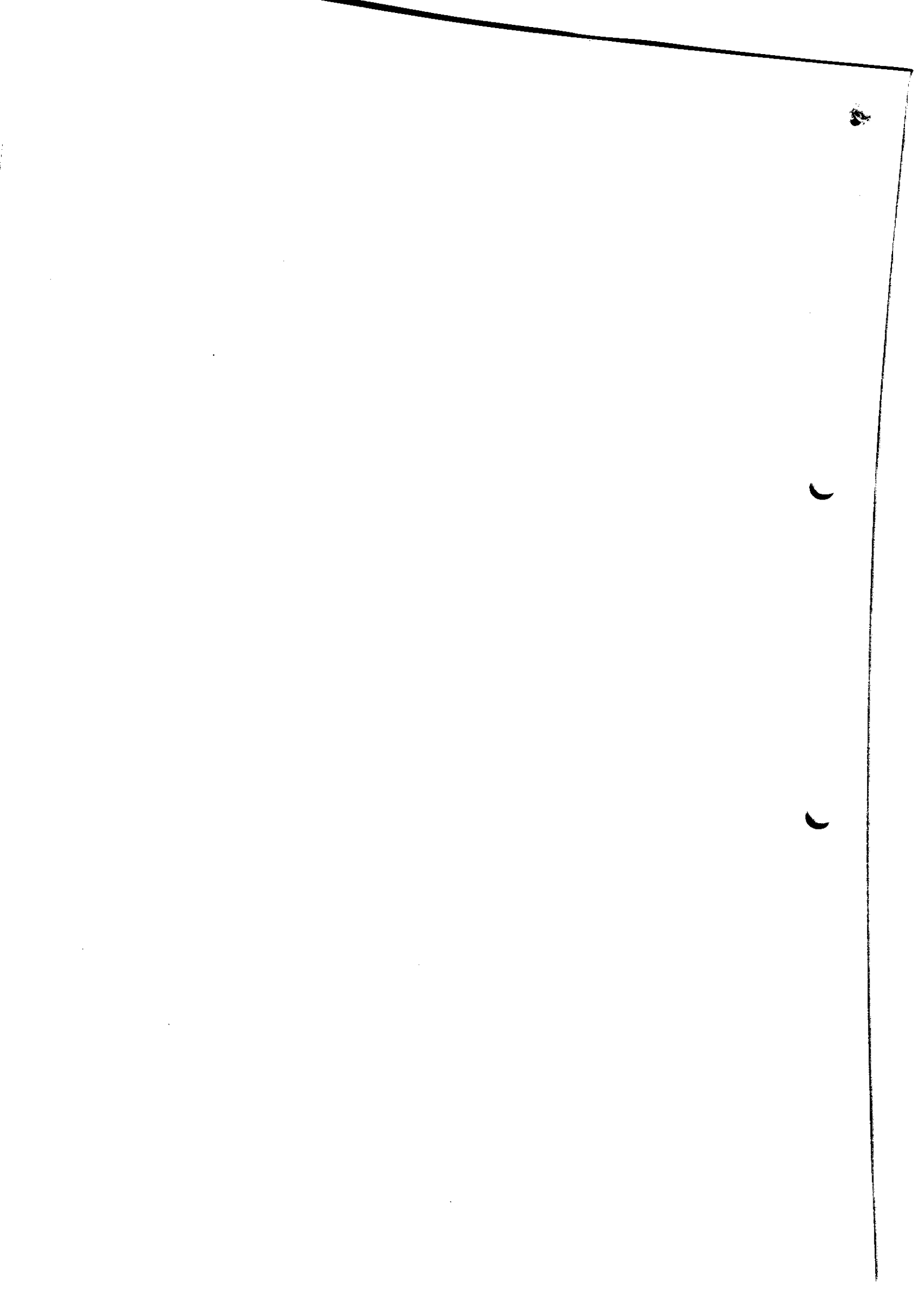
Location : R.O. CECB Raigarh (Note :-R.O. office is situated in residential area.)		Date : 05.11.2015 (Before Deepawali)	
Noise Level Meter			
Make	:	Pulsar Instrument Ltd. U.K.	
Model	:	Pulsar Instrument Model 33	
Serial No.	:	T 225342	
Calibration Result of Noise Level Meter			
Calibration		94 dB at 1000 Hz	114 dB at 1000 Hz
Initial		--	--
Final		--	--
Sampling rate		--	
S.NO.	Time Duration	File No.	L equivalent dB (A)
1	18:00 Hrs to 19:00 Hrs	--	40.3
2	19:00 Hrs to 20:00 Hrs	--	52.6
3	20:00 Hrs to 21:00 Hrs	--	55.2
4	21:00 Hrs to 22:00 Hrs	--	54.2
5	22:00 Hrs to 23:00 Hrs	--	48.3
6	23:00 Hrs to 24:00 Hrs	--	40.3
	Average L equivalent dB (A) Between (18:00 Hrs to 24:00 Hrs)		48.48
	Name & Signature of Official on Duty		S.K. Pradhan

L_{max} Between (20:00 Hrs to 21:00 Hrs) - 55.2 dB(A)
 L_{min} Between (23:00 Hrs to 24:00 Hrs) - 40.3 dB(A)

Data Sheet for Ambient Noise Monitoring on Deepawali Day

Location : R.O. CECB Raigarh (Note :-R.O. office is situated in residential area.)		Date : 11.11.2015 (During Deepawali)	
Noise Level Meter			
Make	:	Pulsar Instrument Ltd. U.K.	
Model	:	Pulsar Instrument Model 33	
Serial No.	:	T 225342	
Calibration Result of Noise Level Meter			
Calibration		94 dB at 1000 Hz	114 dB at 1000 Hz
Initial		--	--
Final		--	--
Sampling rate		--	
S.NO.	Time Duration	File No.	L equivalent dB (A)
1	18:00 Hrs to 19:00 Hrs	--	68.5
2	19:00 Hrs to 20:00 Hrs	--	80.3
3	20:00 Hrs to 21:00 Hrs	--	84.3
4	21:00 Hrs to 22:00 Hrs	--	88.5
5	22:00 Hrs to 23:00 Hrs	--	80.3
6	23:00 Hrs to 24:00 Hrs	--	72.5
	Average L equivalent dB (A) Between (18:00 Hrs to 24:00 Hrs)		79.06
	Name & Signature of Official on Duty		H. S. Soni <i>bul</i>

L_{max} Between (21:00 Hrs to 22:00 Hrs) - 88.5dB (A)
 L_{min} Between (18:00 Hrs to 19:00 Hrs) - 68.5dB (A)



**Ambient Air Monitoring during Deepawali festival, 2015:
Data / Observation:**

Parameter	Ambient Air Quality during Deepawali 2015					
	SO ₂ ($\mu\text{g}/\text{m}^3$)		NO ₂ ($\mu\text{g}/\text{m}^3$)		SPM ($\mu\text{g}/\text{m}^3$)	
	Monitoring Day Date	Pre- 05.11.2015	Deepawali 11.11.2015	Pre- 05.11.2015	Deepawali 11.11.2015	Pre- 05.11.2015
Location						
RO,CECB, RAIGARH	9.31	21.79	15.63	25.98	155.82	278.04
LOCHAN NAGAR RAIGARH	10.16	22.91	15.88	26.72	153.07	325.68
National Ambient Air Quality Standards	80	80	100	80	80	200

All Values (24 hourly Avg.) are in $\mu\text{g}/\text{m}^3$ of air.

Format of Report: Deepawali Monitoring 2015

City : Raigarh

- Latitude & Longitude - 21° 53' उत्तरीय अक्षांश and 83° 25' पूर्वी देशांतर
- Climate / Meteorology - Clear
- Population - 364287
- Major Land use - -

Monitoring Locations: R.O, CECB Raigarh

- Map showing all monitoring locations of the city - -
- Description of monitoring site Area / Zone : Residential, Commercial & Silence
- Residential
- Activities around the monitoring location / Sources of Noise Pollution - Vehicle Activity

Data / Observations:

Noise Level during Deepawali festival 2015:

Location :	Normal Day			Deepawali Day		
	Lmin	Lmax	Leq dB (A)	Lmin	Lmax	Leq dB (A)
18:00 to 19:00 Hr	38.4	46.9	40.3	46.2	82.8	68.5
19:00 to 20:00 Hr	44.2	69.5	52.6	47.1	90.5	80.3
20:00 to 21:00 Hr	43.5	62.7	55.2	58.7	109.6	84.3
21:00 to 22:00 Hr	42.6	60.8	54.2	62.4	110.8	88.5
22:00 to 23:00 Hr	41.3	58.8	48.3	60.1	108.3	80.3
23:00 to 24:00 Hr	34.5	56.1	40.3	46.2	104.6	72.5

Amendure-5



क्षेत्रीय कार्यालय

छ.ग. पर्यावरण संरक्षण मंडल

बैंक कालोनी, बी.टी.आई. के पीछे, नवापारा, अंबिकापुर, जिला-सरगुजा (छ.ग.)



क्रमांक- 712/क्षे.का./छ.ग.प.सं.मं./2015
प्रति,

अंबिकापुर/दिनांक: 18/11/2015

✓ सदस्य सचिव महोदय,
छत्तीसगढ़ पर्यावरण संरक्षण मण्डल,
कबीर नगर, व्यवसायिक परिसर,
छत्तीसगढ़ गृह निर्माण मंडल कालोनी,
कबीर नगर, रायपुर (छ.ग.)-492099

विषय- दीपावली पर्व 2015 के दौरान परिवेशीय वायु एवं ध्वनि स्तर मापन रिपोर्ट भेजने बावत् ।

संदर्भ- मुख्यालय का पत्र क्र. 3917 दिनांक 17/11/2015 ।

महोदय,

उपरोक्त विषयांतर्गत संदर्भित पत्र के माध्यम से प्राप्त निर्देशों के परिपालन में दीपावली पर्व के पूर्व दिनांक 05.11.2015 एवं दीपावली पर्व के दौरान दिनांक 11.11.2015 को परिवेशीय वायु एवं ध्वनि स्तर मापन का कार्य किया गया, वायु एवं ध्वनि स्तर मापन के विश्लेषण परिणाम आवश्यक कार्यवाही हेतु कृपया प्रेषित है ।

संलग्न- उपरोक्तानुसार ।

क्षेत्रीय अधिकारी

छ.ग. पर्यावरण संरक्षण मंडल

अंबिकापुर

CE(I/c) / ACE(R/L)
SE(B/M/S) / EE / CC
PRO / SO(A/c) / S/O / SO-III

MEMBER SECRETARY

Handwritten notes and signatures in the bottom left corner, including dates like 28/11/15 and 17/11/15.



REGIONAL OFFICE
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD,
 Bank Colony, Behind B.T.I., Nawapara, Ambikapur (C.G.)

AMBIENT AIR MONITORING REPORT

Location of Monitoring : Near Regional Office Building, Nawapara,
 Ambikapur, Distt.-Surguja (C.G.)

Zone : Residential

Date of Monitoring : 05/11/2015

Date of Analysis : 06/11/2015

Monitoring done by : B.B. Dhruv, Lab Astt. Gr.1 & Office staff

AMBIENT AIR QUALITY MONITORING
 (Pre- Deepawali - Monitoring)

Sr. No.	Shift / Duration of Sampling	SPM ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
01	1 st Shift (06:00 AM to 02:00 PM)	175.00	08.16	10.88
02	2 st Shift (02:00 PM to 10:00 PM)	192.33	09.67	13.26
03	3 rd Shift (10:00 PM to 06:00 AM)	146.35	07.77	10.36
Prescribed limits		200	80	80

Remarks 1 Indicate exceeding the prescribed Board limits.
 2 During the monitoring weather was Normal.


 ANALYSED BY


 REGIONAL OFFICER



REGIONAL OFFICE
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD,
 Bank Colony, Behind B.T.I., Nawapara, Ambikapur (C.G.)

AMBIENT AIR MONITORING REPORT

Location of Monitoring : Near Regional Office Building, Nawapara,
 Ambikapur, Distt.-Surguja (C.G.)

Zone : Residential

Date of Monitoring : 11/11/2015

Date of Analysis : 13/11/2015

Monitoring done by : B.B. Dhruv, Lab Asst. Gr.1 & Office staff

AMBIENT AIR QUALITY MONITORING
 (During- Deepawali - Monitoring)

Sr. No.	Shift / Duration of Sampling	SPM ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
01	1 st Shift (06:00 AM to 02:00 PM)	233.90	09.43	12.89
02	2 nd Shift (02:00 PM to 10:00 PM)	313.00	12.20	15.12
03	3 rd Shift (10:00 PM to 06:00 AM)	253.85	10.41	13.39
Prescribed limits		200	80	80

Remarks 1 Indicate exceeding the prescribed Board limits.
 2 During the monitoring weather was Normal.


 ANALYSED BY


 REGIONAL OFFICER

Ambient Air Monitoring during Deepawali festival, 2015 :

Data/Observations:

Ambient Air Quality during Deepawali, 2015

Parameter Monitoring Day	SO ₂ (µg/m ³)		NO ₂ (µg/m ³)		SPM (µg/m ³)	
	Normal Day	During Deepawali	Normal Day	During Deepawali	Normal Day	During Deepawali
Date :-	05.11.2015	11.11.2015	05.11.2015	11.11.2015	05.11.2015	11.11.2015
Location :-						
Near Regional Office, CB, Bank Colony, Wapda Ambikapur	07.77 To 09.67	09.43 To 12.20	10.36 To 13.26	12.89 To 15.12	146.35 To 192.33	233.90 To 313.00
	-	-	-	-	-	-
	-	-	-	-	-	-
Concentration Range	07.77 To 09.67	09.43 To 12.20	10.36 To 13.26	12.89 To 15.12	146.35 To 192.33	233.90 To 313.00
National Ambient Air Quality Standard	80		80		200	

All Values of Concentrations are in µg/m³ of air

Format of Report : Deepawali Monitoring 2015City : **Ambikapur, Dist.- Surguja (C.G.)**

- Latitude & Longitude : **23° 6' North Latitude & 83° 11' to 84° 51' East Longitude**
- Climate/Meteorology : -
- Population : **1,22,756 as per return submitted by Municipal Corporation**
- Major Land use : -

Monitoring Locations :

- Map showing all monitoring locations of the city: **Enclosed**
- Description of monitoring site: **Area/Zone: Residential, Commercial & Silence**
- Activities around the monitoring location/Sources of Noise pollution

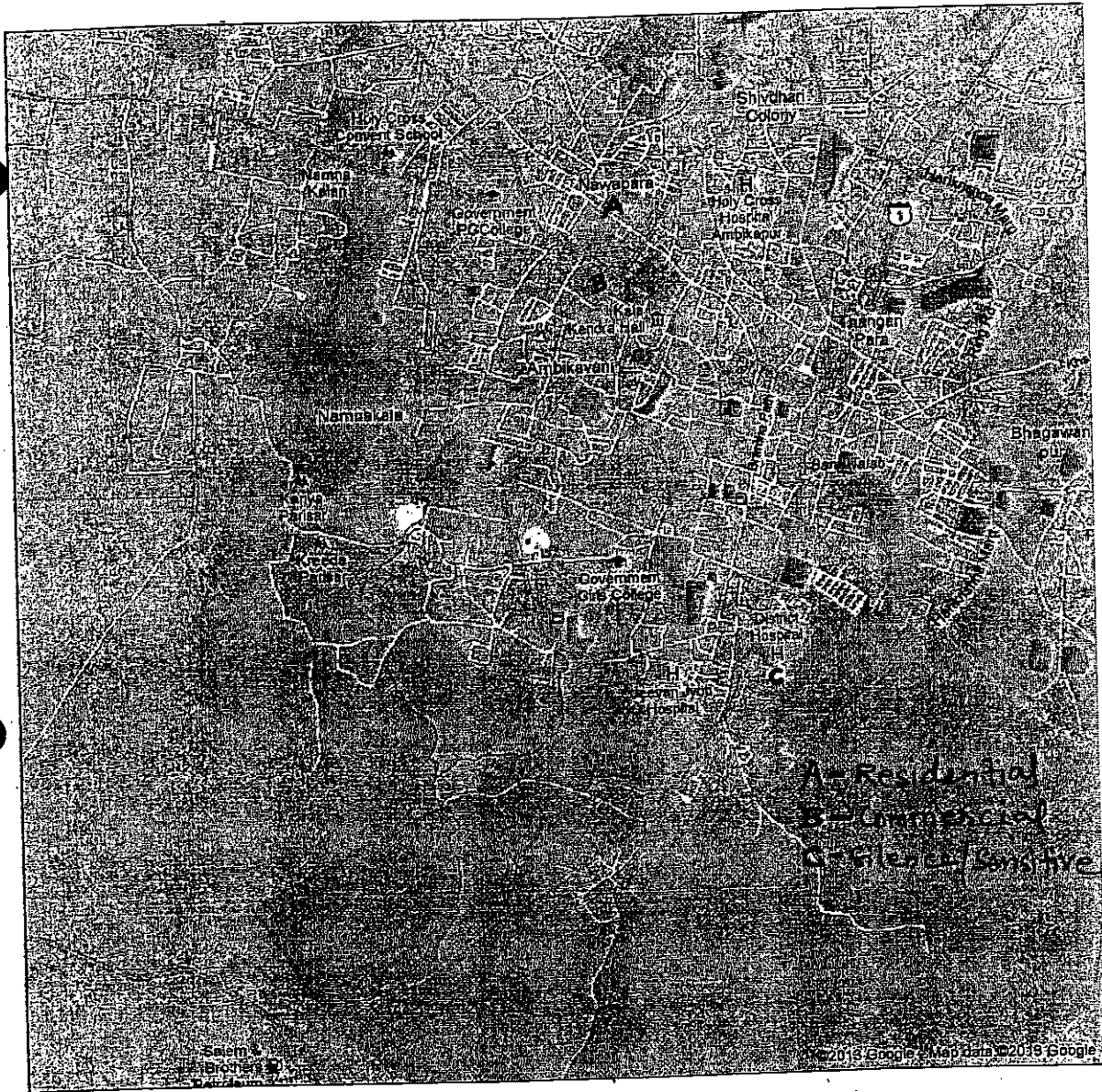
Data/Observations :**Noise Level During Deepawali festival 2015**

Location: A CECB, Bank Colony, Nawapara, Ambikapur. Zone : Residential	Normal Day Date- 05/11/2015			Deepawali Day Date- 11/11/2015		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	45.5	48.7	47.1	47.4	78.3	72.1
19:00 to 20:00 Hr	46.2	52.9	48.4	48.1	86.5	81.5
20:00 to 21:00 Hr	47.1	53.4	51.2	49.6	92.2	88.3
21:00 to 22:00 Hr	46.8	49.2	47.6	67.8	88.5	86.6
22:00 to 23:00 Hr	42.3	44.7	43.8	70.3	76.1	72.2
23:00 to 24:00 Hr	39.6	43.3	40.2	57.6	69.5	67.4
Location: B Near Ghari Chowk Ambikapur. Zone : Commercial	Normal Day Date- 05/11/2015			Deepawali Day Date- 11/11/2015		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	54.4	63.2	55.6	68.2	79.6	72.8
19:00 to 20:00 Hr	56.2	67.5	59.3	74.4	85.4	79.6
20:00 to 21:00 Hr	64.5	76.1	69.2	78.5	92.3	86.3
21:00 to 22:00 Hr	72.3	75.2	73.4	89.7	98.8	94.6
22:00 to 23:00 Hr	69.6	72.0	71.1	90.3	96.4	92.8
23:00 to 24:00 Hr	59.4	62.2	60.6	85.5	91.2	89.4
Location: C Near Raghunath District Hospital, Ambikapur. Zone : Silence/Sensitive	Normal Day Date- 05/11/2015			Deepawali Day Date- 11/11/2015		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	41.3	54.6	46.2	42.6	59.7	47.9
19:00 to 20:00 Hr	44.2	63.2	48.3	45.5	64.3	52.6
20:00 to 21:00 Hr	46.6	57.9	52.6	49.9	68.8	56.1
21:00 to 22:00 Hr	42.5	64.8	58.8	46.3	72.4	59.9
22:00 to 23:00 Hr	40.6	52.6	45.2	50.4	53.3	54.4
23:00 to 24:00 Hr	39.8	46.4	41.5	49.8	48.2	46.3

Google

Address

Get Google Maps on your phone
Text the word "GMAPS" to 466453



Annexure - (6)



क्षेत्रीय कार्यालय
छत्तीसगढ़ पर्यावरण संरक्षण मण्डल
तहसील कार्यालय के पास, रामपुर, कोरबा, जिला-कोरबा (छ.ग.)
दूरभाष क्रमांक 07759-222370, ई. मेल-rocecb_korba@rediffmail.com

क्रमांक 1256 /क्षे.का./छ.ग.प.सं.मं./2015

कोरबा दिनांक 20/11/2015

प्रति,

सदस्य सचिव,
छ.ग.पर्यावरण संरक्षण मंडल,
मुख्यालय, रायपुर(छ.ग.)

विषय:- Monitoring of Ambient Air and Noise during Deepawali Festival Regarding.

संदर्भ:- 1 मण्डल मुख्यालय रायपुर का पृ.पत्र क्रमांक 3497 दिनांक 27.10.2015
2. केन्द्रीय प्रदूषण नियंत्रण बोर्ड नई दिल्ली का पत्र क्रमांक A-21018/7/13-
Mon./3644 दिनांक 15.09.2014

महोदय,

उपरोक्त विषयांतर्गत लेख हैं कि दीपावली के पूर्व दिनांक 05.11.2015 एवं दीपावली त्यौहार के दौरान दिनांक 11.11.2015 को परिवेशीय वायु मापन, ध्वनि मापन का कार्य किया गया है। जिसका मानिट्रिंग प्रतिवेदन निर्धारित प्रपत्र में तैयार कर कृपया प्रेषित है।

संलग्न:- उपरोक्तानुसार।

CE(I/C) / ACE(R/L)
SE(B/M/S) / EE / CC
PRO / SO(A/C) / S/O / SO-III
2011

MEMBER SECRETARY


क्षेत्रीय अधिकारी,

छ.ग. पर्यावरण संरक्षण मंडल, कोरबा

Bm

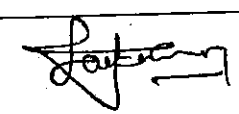
Data sheet for Ambient Noise Monitoring on Deepavali Day

Location : Darri Jamnipali Korba		Date : 05.11.2015						
Noise Level Meter								
Make	:	Pulsar						
Model	:	M - 33						
Serial No.	:	T - 225343						
Calibration Result of Noise Level Meter								
Calibration		94 dB at 1000 Hz	114 dB at 1000 Hz					
Initial		-	-					
Final		-	-					
Sampling rate		Hourly	Hourly					
S. No.	Time duration	File No.	Lequivalent dB (A)					
			Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
1	18:00 Hrs. To 19:00 Hrs	-	-	-	-	-	58.10	64.20
2	19:00 Hrs. To 20:00 Hrs	-	-	-	-	-	59.80	67.60
3	20:00 Hrs. To 21:00 Hrs	-	-	-	-	-	61.30	70.50
4	21:00 Hrs. To 22:00 Hrs	-	-	-	-	-	59.20	62.70
5	22:00 Hrs. To 23:00 Hrs	-	-	-	-	-	56.60	60.30
6	23:00 Hrs. To 24:00 Hrs	-	-	-	-	-	42.20	44.20
Average Lequivalent dB (A)							56.20	61.58
Between (18:00 to 24:00 hrs)								
Monitoring team & signature			B. P. Mishra <i>B.P. Mishra</i>					
Notes : (1) The method for calculation of average Leq: to convert average of dB(A), each value is to be divided by 10, followed by antilog and finally calculate arithmetic mean. The final value is converted in logarithm, (2) monitoring must be carried for 75% of the prescribed day time and night time for legal compliance, (3) L _{max} and L _{min} are to be reported hourly basis and (4) L ₅₀ & L ₉₀ also recorded to understand the intensity of the noise for further course of action.								

B.P. Mishra

ANNEXURE -I

Data sheet for Ambient Noise Monitoring on Deepavali Day

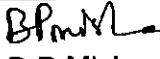
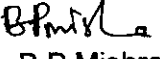
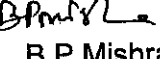
Location : Near Tehsil Office, Rampur Korba		Date : 05.11.2015						
Noise Level Meter								
Make	:	Lutron						
Model	:	SL-4001						
Serial No.	:	I - 03601						
Calibration Result of Noise Level Meter								
Calibration		94 dB at 1000 Hz	114 dB at 1000 Hz					
Initial		-	-					
Final		-	-					
Sampling rate		Hourly	Hourly					
S. No.	Time duration	File No.	Lequivalent dB (A)					
			Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
1	18:00 Hrs. To 19:00 Hrs	-	-	-	-	-	53.20	58.20
2	19:00 Hrs. To 20:00 Hrs	-	-	-	-	-	56.10	63.30
3	20:00 Hrs. To 21:00 Hrs	-	-	-	-	-	52.60	56.40
4	21:00 Hrs. To 22:00 Hrs	-	-	-	-	-	50.40	56.20
5	22:00 Hrs. To 23:00 Hrs	-	-	-	-	-	46.20	51.60
6	23:00 Hrs. To 24:00 Hrs	-	-	-	-	-	38.80	43.20
Average Lequivalent dB (A)							49.55	54.81
Between (18:00 to 24:00 hrs)								
Monitoring team & signature			Jay karan Singh 					
<p>Notes : (1) The method for calculation of average Leq: to convert average of dB(A), each value is to be divided by 10, followed by antilog and finally calculate arithmetic mean. The final value is converted in logarithm, (2) monitoring must be carried for 75% of the prescribed day time and night time for legal compliance, (3) L_{max} and L_{min} are to be reported hourly basis and (4) L₅₀ & L₉₀ also recorded to understand the intensity of the noise for further course of action.</p>								

ANNEXURE -I

Data sheet for Ambient Noise Monitoring on Deepavali Day

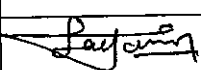
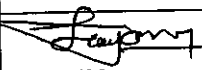
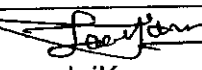
Location : T.P.Nagar, Korba		Date 05.11.2015						
Noise Level Meter								
Make	:	Metravi						
Model	:	SL-4010						
Serial No.	:	140800261						
Calibration Result of Noise Level Meter								
Calibration		94 dB at 1000 Hz	114 dB at 1000 Hz					
Initial		-	-					
Final		-	-					
Sampling rate		Hourly	Hourly					
S. No.	Time duration	File No.	Lequivalent dB (A)					
			Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
1	18:00 Hrs. To 19:00 Hrs	-	-	-	-	-	61.90	70.60
2	19:00 Hrs. To 20:00 Hrs	-	-	-	-	-	68.20	74.50
3	20:00 Hrs. To 21:00 Hrs	-	-	-	-	-	66.40	70.20
4	21:00 Hrs. To 22:00 Hrs	-	-	-	-	-	70.50	78.40
5	22:00 Hrs. To 23:00 Hrs	-	-	-	-	-	71.60	76.80
6	23:00 Hrs. To 24:00 Hrs	-	-	-	-	-	65.90	69.40
		Average Lequivalent dB (A) Between (18:00 to 24:00 hrs)				67.41		73.31
		Monitoring team & signature		Samar Jit Singh		Sd/-		
Notes : (1) The method for calculation of average Leq: to convert average of dB(A), each value is to be divided by 10, followed by antilog and finally calculate arithmetic mean. The final value is converted in logarithm, (2) monitoring must be carried for 75% of the prescribed day time and night time for legal compliance, (3) L _{max} and L _{min} are to be reported hourly basis and (4) L ₅₀ & L ₉₀ also recorded to understand the intensity of the noise for further course of action.								

**AMBIENT AIR QUALITY MONITORING
AMBIENT AIR QUALITY OF KORBA
DATA SHEET FOR PARTICULATE MATTER**

Station : Darri, Jamnilpali, Korba		Date : 05.11.2015	
Shift	Ist Shift	IInd Shift	IIIrd Shift
Monitoring Period	6:00AM- 2:00PM	2:00PM-10:00PM	10:00PM-6:00AM
Parameter	RSPM	RSPM	RSPM
Filter Paper No.	1	2	3
Hourly Flow Rate (m ³ / minute)	1.3	1.3	1.3
	1.29	1.28	1.29
	1.29	1.28	1.29
	1.28	1.28	1.29
	1.28	1.27	1.28
	1.28	1.27	1.28
	1.27	1.26	1.28
	1.27	1.26	1.27
	1.27	1.25	1.27
Average Flow Rate (m ³ /minute)	1.281	1.272	1.283
Total Operation Time (Minutes)	480	480	480
Initial Weight of Filter Paper (gms.)	2.8635	2.8708	2.8739
Final Weight of Filter Paper (gms.)	2.8998	2.9158	2.9071
Net Contents (gms.)	0.0363	0.0450	0.0332
Total Volume of Air Sampled (m ³)	614.88	610.56	615.84
Concentration (µg/m ³)	59.03	73.70	53.91
24 Hourly Average PM10 (µg/m ³)	62.21		
Remarks :	Pre - Dipawali	Pre - Dipawali	Pre - Dipawali
Name & Signature of Official on Duty :	 B.P.Mishra	 B.P.Mishra	 B.P.Mishra

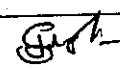
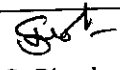
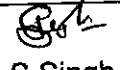
ANNEXURE -II

**AMBIENT AIR QUALITY MONITORING
AMBIENT AIR QUALITY OF KORBA
DATA SHEET FOR PARTICULATE MATTER**

Station : Near Tehsil Office Rampur Korba		Date : 05.11.2015		
Shift	Ist Shift	IInd Shift	IIIrd Shift	
Monitoring Period	6:00AM- 2:00PM	2:00PM-10:00PM	10:00PM-6:00AM	
Parameter	RSPM	RSPM	RSPM	
Filter Paper No.	1	2	3	
Hourly Flow Rate (m ³ / minute)	1.16	1.16	1.15	
	1.15	1.15	1.14	
	1.15	1.14	1.14	
	1.14	1.14	1.14	
	1.14	1.13	1.13	
	1.14	1.13	1.13	
	1.14	1.13	1.12	
	1.13	1.12	1.12	
	1.13	1.12	1.12	
Average Flow Rate (m ³ /minute)	1.142	1.135	1.132	
Total Operation Time (Minutes)	480	480	480	
Initial Weight of Filter Paper (gms.)	2.8866	2.8689	2.8984	
Final Weight of Filter Paper (gms.)	2.9219	2.9079	2.9302	
Dust Contents (gms.)	0.0353	0.0390	0.0318	
Total Volume of Air Sampled (m ³)	548.16	544.80	543.36	
Concentration (µg/m ³)	64.39	71.58	58.52	
24 Hourly Average PM10 (µg/m ³)	64.83			
Remarks :	Pre - Dipawali	Pre - Dipawali	Pre - Dipawali	
Name & Signature of Official on Duty :	 JaiKaran Singh	 JaiKaran Singh	 JaiKaran Singh	

ANNEXURE -II

**AMBIENT AIR QUALITY MONITORING
AMBIENT AIR QUALITY OF KORBA
DATA SHEET FOR PARTICULATE MATTER**

Station : T.P .NAGAR Korba		Date : 05.11.2015		
Shift	Ist Shift	IInd Shift	IIIRD Shift	
Monitoring Period	6:00AM- 2:00PM	2:00PM-10:00PM	10:00PM-6:00AM	
Parameter	RSPM	RSPM	RSPM	
Filter Paper No.	1	2	3	
Hourly Flow Rate (m ³ / minute)	1.2	1.2	1.2	
	1.19	1.18	1.19	
	1.19	1.18	1.18	
	1.18	1.17	1.18	
	1.18	1.17	1.17	
	1.17	1.16	1.16	
	1.17	1.16	1.16	
	1.16	1.15	1.16	
	1.15	1.14	1.15	
Average Flow Rate (m ³ /minute)	1.176	1.167	1.172	
Total Operation Time (Minutes)	480	480	480	
Initial Weight of Filter Paper (gms.)	2.9016	2.8790	2.8956	
Final Weight of Filter Paper (gms.)	2.9740	2.9659	2.9549	
Dust Contents (gms.)	0.0724	0.0869	0.0593	
Total Volume of Air Sampled (m ³)	564.48	560.16	562.56	
Concentration (µg/m ³)	128.25	155.13	105.41	
24 Hourly Average PM10 (µg/m ³)	129.59			
Remarks :	Pre - Dipawali	Pre - Dipawali	Pre - Dipawali	
Name & Signature of Official on Duty :	 S.Singh	 S.Singh	 S.Singh	

ANNEXURE -III

DATA SHEET FOR GASEOUS POLLUTANTS (AMBIENT AIR QUALITY OF KORBA)
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Station : Darri Jamanipali Korba	Date : 05.11.2015									
	1st Shift		IInd Shift		IIInd Shift		Graph Factor	So ₂	No ₂	
Shift	06:00AM 10:00AM	10:00AM 02:00PM	02:00PM 06:00PM	06:00PM 10:00PM	10:00PM 02:00AM	02:00AM 06:00AM	10:00PM	02:00AM	06:00AM	
Monitoring Period	10:00AM	02:00PM	06:00PM	10:00PM	02:00AM	06:00AM	10:00PM	02:00AM	06:00AM	
Parameter	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minutes)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Initial Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Final Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Volume Taken For Analysis (ml)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Total Volume of Air Sampled (lit.)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Absorbance (Blank)	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013
Absorbance (Sample)	0.022	0.037	0.020	0.044	0.025	0.046	0.024	0.042	0.022	0.039
Concentration (µg/m ³)	10.85	13.90	9.30	17.95	13.17	19.11	12.40	16.79	10.85	15.06
24 Hourly Average So ₂ (µg/m ³)	10.84				24 Hourly Average No ₂ (µg/m ³)				16.50	
Remarks :	Pre - Dipawali				Pre - Dipawali				Pre - Dipawali	
Name & Signature of Official on duty	B.P. Mishra				B.P. Mishra				B.P. Mishra	

ANNEXURE -III

DATA SHEET FOR GASEOUS POLLUTANTS (AMBIENT AIR QUALITY OF KORBA)
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Station : Near Tehsil Office Rampur Korba		Date : 05.11.2015										
Shift	1st Shift			IInd Shift			IIInd Shift					
	06:00AM 10:00AM	10:00AM 02:00PM	02:00PM 06:00PM	06:00PM 10:00PM	10:00PM 02:00AM	02:00AM 06:00AM	Graph Factor	So ₂	No ₂			
Monitoring Period	06:00AM 10:00AM	10:00AM 02:00PM	02:00PM 06:00PM	06:00PM 10:00PM	10:00PM 02:00AM	02:00AM 06:00AM	So ₂	No ₂	No ₂			
Parameter	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂		
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Average Flow rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Total Operation Time (Minutes)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0		
Initial Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0		
Final Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0		
Volume Taken For Analysis (ml)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		
Total Volume of Air Sampled (lit.)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0		
Absorbance (Blank)	0.008	0.013	0.008	0.013	0.008	0.013	0.013	0.013	0.008	0.013		
Absorbance (Sample)	0.025	0.039	0.023	0.045	0.026	0.048	0.027	0.046	0.023	0.041		
Concentration (µg/m ³)	13.17	15.06	11.62	18.53	13.95	20.27	14.72	19.11	11.62	16.21		
24 Hourly Average So ₂ (µg/m ³)	12.52						24 Hourly Average No ₂ (µg/m ³)			17.85		
Remarks :	Pre - Dipawali						Pre - Dipawali			Pre - Dipawali		
Name & Signature of Official on duty	Jaikaran Singh			Jaikaran Singh			Jaikaran Singh			Jaikaran Singh		

ANNEXURE -III

DATA SHEET FOR GASEOUS POLLUTANTS (AMBIENT AIR QUALITY OF KORBA)
 DATA SHEET FOR GASEOUS AIR POLLUTANTS

Date : 05.11.2015

Station : T. P. Nagar Korba	1st Shift				IInd Shift				IIIrd Shift			
	06:00AM 10:00AM	10:00AM 02:00PM	02:00PM 06:00PM	06:00PM 10:00PM	10:00PM 02:00AM	02:00AM 06:00AM	06:00AM 10:00AM	10:00AM 02:00AM	02:00AM 06:00AM	06:00AM 10:00AM	10:00AM 02:00AM	02:00AM 06:00AM
Shift	1st Shift				IInd Shift				IIIrd Shift			
Monitoring Period	06:00AM 10:00AM	10:00AM 02:00PM	02:00PM 06:00PM	06:00PM 10:00PM	10:00PM 02:00AM	02:00AM 06:00AM	06:00AM 10:00AM	10:00AM 02:00AM	02:00AM 06:00AM	06:00AM 10:00AM	10:00AM 02:00AM	02:00AM 06:00AM
Parameter	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minutes)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Total Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Initial Volume of Sample (MI)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Final Volume of Sample (MI)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Volume Taken For Analysis (MI)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Total Volume of Air Sampled (lit.)	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013
Absorbance (Blank)	0.027	0.044	0.028	0.047	0.029	0.052	0.031	0.050	0.031	0.049	0.025	0.048
Absorbance (Sample)	14.72	17.95	15.50	19.69	16.27	22.59	17.82	21.43	17.82	20.85	13.17	20.27
Concentration (µg/m ³)	15.88				24 Hourly Average No ₂ (µg/m ³)				20.46			
24 Hourly Average So ₂ (µg/m ³)	Pre - Dipawali				Pre - Dipawali				Pre - Dipawali			
Remarks :	S. Singh				S. Singh				S. Singh			
Name & Signature of Official on duty	S. Singh				S. Singh				S. Singh			

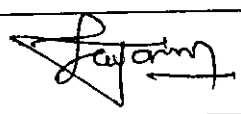
Data sheet for Ambient Noise Monitoring on Deepavali Day

Location : Darri Jamnipali Korba		Date : 11.11.2015						
Noise Level Meter								
Make	:	Pulsar						
Model	:	M - 33						
Serial No.	:	T - 225343						
Calibration Result of Noise Level Meter								
Calibration	94 dB at 1000 Hz		114 dB at 1000 Hz					
Initial	-		-					
Final	-		-					
Sampling rate	Hourly		Hourly					
Lequivalent dB (A)								
S. No.	Time duration	File No.	Lequivalent dB (A)					
			Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
1	18:00 Hrs. To 19:00 Hrs	-	-	-	-	-	61.70	69.40
2	19:00 Hrs. To 20:00 Hrs	-	-	-	-	-	68.80	78.60
3	20:00 Hrs. To 21:00 Hrs	-	-	-	-	-	70.40	87.50
4	21:00 Hrs. To 22:00 Hrs	-	-	-	-	-	74.70	91.60
5	22:00 Hrs. To 23:00 Hrs	-	-	-	-	-	71.40	89.30
6	23:00 Hrs. To 24:00 Hrs	-	-	-	-	-	65.60	78.50
			68.76 82.48					
Average Lequivalent dB (A) Between (18:00 to 24:00 hrs)								
Monitoring team & signature		B.P. Mishra <i>B.P. Mishra</i>						
<p>Notes : (1) The method for calculation of average Leq; to convert average of dB(A), each value is to be divided by 10, followed by antilog and finally calculate arithmetic mean. The final value is converted in logarithm, (2) monitoring must be carried for 75% of the prescribed day time and night time for legal compliance, (3) L_{max} and L_{min} are to be reported hourly basis and (4) L₅₀ & L₉₀ also recorded to understand the intensity of the noise for further course of action.</p>								

B.P. Mishra

ANNEXURE -I

Data sheet for Ambient Noise Monitoring on Deepavali Day

Location : Near Tehsil Office, Rampur Korba		Date : 11.11.2015						
Noise Level Meter								
Make	:	Lutron						
Model	:	SL-4001						
Serial No.	:	I - 03601						
Calibration Result of Noise Level Meter								
Calibration	94 dB at 1000 Hz	114 dB at 1000 Hz						
Initial	-	-						
Final	-	-						
Sampling rate	Hourly	Hourly						
S. No.	Time duration	File No.	Lequivalent dB (A)					
			Leq	L ₁₀	L ₅₀	L ₉₀	L _{min}	L _{max}
1	18:00 Hrs. To 19:00 Hrs	-	-	-	-	-	59.60	65.40
2	19:00 Hrs. To 20:00 Hrs	-	-	-	-	-	63.80	71.60
3	20:00 Hrs. To 21:00 Hrs	-	-	-	-	-	68.10	79.50
4	21:00 Hrs. To 22:00 Hrs	-	-	-	-	-	72.40	86.30
5	22:00 Hrs. To 23:00 Hrs	-	-	-	-	-	70.20	81.70
	23:00 Hrs. To 24:00 Hrs	-	-	-	-	-	58.30	65.20
Average Lequivalent dB (A)							65.40	74.95
Between (18:00 to 24:00 hrs)								
Monitoring team & signature			Jay karan Singh 					
<p>Notes : (1) The method for calculation of average Leq: to convert average of dB(A), each value is to be divided by 10, followed by antilog and finally calculate arithmetic mean. The final value is converted in logarithm, (2) monitoring must be carried for 75% of the prescribed day time and night time for legal compliance, (3) L_{max} and L_{min} are to be reported hourly basis and (4) L₅₀ & L₉₀ also recorded to understand the intensity of the noise for further course of action.</p>								

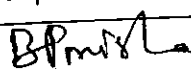
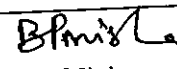
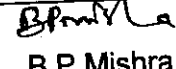
ANNEXURE -I

Data sheet for Ambient Noise Monitoring on Deepavali Day

Location : T.P.Nagar, Korba		Date 11.11.2015	
Noise Level Meter			
Make	:	Metravi	
Model	:	SL-4010	
Serial No.	:	140800261	
Calibration Result of Noise Level Meter			
Calibration		94 dB at 1000 Hz	114 dB at 1000 Hz
Initial		-	-
Final		-	-
Sampling rate		Hourly	Hourly
S. No.	Time duration	File No.	Lequivalent dB (A)
			Leq L ₁₀ L ₅₀ L ₉₀ L _{min} L _{max}
1	18:00 Hrs. To 19:00 Hrs	-	- - - - 70.60 82.40
2	19:00 Hrs. To 20:00 Hrs	-	- - - - 74.50 87.30
3	20:00 Hrs. To 21:00 Hrs	-	- - - - 80.30 104.50
4	21:00 Hrs. To 22:00 Hrs	-	- - - - 78.40 99.60
5	22:00 Hrs. To 23:00 Hrs	-	- - - - 73.30 90.80
6	23:00 Hrs. To 24:00 Hrs	-	- - - - 69.80 81.50
Average Lequivalent dB (A) Between (18:00 to 24:00 hrs)			74.48 91.01
Monitoring team & signature		<i>Samarjit</i> <i>Seh</i>	
Notes : (1) The method for calculation of average Leq: to convert average of dB(A), each value is to be divided by 10, followed by antilog and finally calculate arithmetic mean. The final value is converted in logarithm, (2) monitoring must be carried for 75% of the prescribed day time and night time for legal compliance, (3) L _{max} and L _{min} are to be reported hourly basis and (4) L ₅₀ & L ₉₀ also recorded to understand the intensity of the noise for further course of action.			

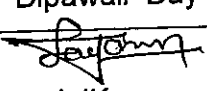
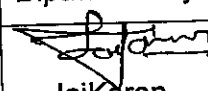

ANNEXURE -II

**AMBIENT AIR QUALITY MONITORING
AMBIENT AIR QUALITY OF KORBA
DATA SHEET FOR PARTICULATE MATTER**

Station : Darri, Jamnirpali, Korba		Date : 11.11.2015		
Shift	Ist Shift	IInd Shift	IIIrd Shift	
Monitoring Period	6:00AM- 2:00PM	2:00PM-10:00PM	10:00PM-6:00AM	
Parameter	RSPM	RSPM	RSPM	
Filter Paper No.	1	2	3	
Hourly Flow Rate (m ³ / minute)	1.3	1.3	1.3	
	1.29	1.28	1.28	
	1.29	1.28	1.28	
	1.29	1.27	1.27	
	1.28	1.27	1.27	
	1.28	1.26	1.26	
	1.27	1.25	1.26	
	1.27	1.24	1.26	
	1.26	1.24	1.25	
Average Flow Rate (m ³ /minute)	1.281	1.265	1.270	
Total Operation Time (Minutes)	480	480	480	
Initial Weight of Filter Paper (gms.)	2.8875	2.8695	2.8725	
Final Weight of Filter Paper (gms.)	2.9288	3.0128	2.9732	
Dust Contents (gms.)	0.0413	0.1433	0.1007	
Total Volume of Air Sampled (m ³)	614.88	607.20	609.60	
Concentration (µg/m ³)	67.16	236.00	165.19	
24 Hourly Average PM10 (µg/m ³)	156.11			
Remarks :	Dipawali Day	Dipawali Day	Dipawali Day	
Name & Signature of Official on Duty :	 B.P.Mishra	 B.P.Mishra	 B.P.Mishra	




ANNEXURE -II

**AMBIENT AIR QUALITY MONITORING
AMBIENT AIR QUALITY OF KORBA
DATA SHEET FOR PARTICULATE MATTER**

Station : Near Tehsil Office Rampur Korba		Date : 11.11.2015	
Shift	Ist Shift	IInd Shift	IIIRD Shift
Monitoring Period	6:00AM- 2:00PM	2:00PM-10:00PM	10:00PM-6:00AM
Parameter	RSPM	RSPM	RSPM
Filter Paper No.	1	2	3
Hourly Flow Rate (m ³ / minute)	1.16	1.16	1.16
	1.15	1.15	1.14
	1.15	1.14	1.13
	1.14	1.13	1.13
	1.14	1.13	1.13
	1.14	1.12	1.13
	1.13	1.11	1.12
	1.12	1.11	1.12
Average Flow Rate (m ³ /minute)	1.138	1.128	1.131
Total Operation Time (Minutes)	480	480	480
Initial Weight of Filter Paper (gms.)	2.8711	2.8692	2.8804
Final Weight of Filter Paper (gms.)	2.9228	2.9769	2.9682
Dust Contents (gms.)	0.0517	0.1077	0.0878
Total Volume of Air Sampled (m ³)	546.24	541.44	542.88
Concentration (µg/m ³)	94.64	198.91	161.73
24 Hourly Average PM10 (µg/m ³)	151.76		
Remarks :	Dipawali Day	Dipawali Day	Dipawali Day
Name & Signature of Official on Duty :	 JaiKaran Singh	 JaiKaran Singh	 JaiKaran Singh

ANNEXURE -II

**AMBIENT AIR QUALITY MONITORING
AMBIENT AIR QUALITY OF KORBA
DATA SHEET FOR PARTICULATE MATTER**

Station : T.P .NAGAR Korba		Date : 11.11.2015		
Shift	Ist Shift	IInd Shift	IIIrd Shift	
Monitoring Period	6:00AM- 2:00PM	2:00PM-10:00PM	10:00PM-6:00AM	
Parameter	RSPM	RSPM	RSPM	
Filter Paper No.	1	2	3	
Hourly Flow Rate (m ³ / minute)	1.20	1.2	1.2	
	1.18	1.16	1.16	
	1.18	1.16	1.16	
	1.18	1.15	1.15	
	1.17	1.13	1.15	
	1.16	1.13	1.15	
	1.15	1.12	1.14	
	1.15	1.10	1.14	
	1.14	1.10	1.13	
Average Flow Rate (m ³ /minute)	1.167	1.138	1.153	
Total Operation Time (Minutes)	480	480	480	
Initial Weight of Filter Paper (gms.)	2.8906	2.9011	2.8956	
Final Weight of Filter Paper (gms.)	2.9872	3.1117	3.0094	
Dust Contents (gms.)	0.0966	0.2106	0.1138	
Total Volume of Air Sampled (m ³)	560.16	546.24	553.44	
Concentration (µg/m ³)	172.45	385.54	205.62	
24 Hourly Average PM10 (µg/m ³)	254.53			
Remarks :	Dipawali Day	Dipawali Day	Dipawali Day	
Name & Signature of Official on Duty :	 S.Singh	 S.Singh	 S.Singh	



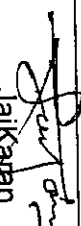
ANNEXURE -III

DATA SHEET FOR GASEOUS POLLUTANTS (AMBIENT AIR QUALITY OF KORBA)
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Station : Darri Jamanipali Korba		Date : 11.11.2015								Graph Factor	So ₂	No ₂	62
Shift		1st Shift				IInd Shift				IIInd Shift			
Monitoring Period		06:00AM 10:00AM		10:00AM 02:00PM		02:00PM 06:00PM		06:00PM 10:00PM		10:00PM 02:00AM		02:00AM 06:00AM	
Parameter	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	No ₂
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minutes)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Initial Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Final Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Volume Taken For Analysis (ml)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Total Volume of Air Sampled (lit.)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Absorbance (Blank)	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013	0.013
Absorbance (Sample)	0.023	0.048	0.022	0.047	0.028	0.053	0.051	0.075	0.041	0.065	0.036	0.057	0.057
Concentration (µg/m ³)	11.62	20.27	10.85	19.69	15.50	23.17	33.32	35.91	25.57	30.12	21.70	25.48	25.48
24 Hourly Average So ₂ (µg/m ³)	19.76												
24 Hourly Average No ₂ (µg/m ³)	25.77												
Remarks :	Dipawali Day				Dipawali Day				Dipawali Day				
Name & Signature of Official on duty	B.P. Mishra				B.P. Mishra				B.P. Mishra				

ANNEXURE -III

DATA SHEET FOR GASEOUS POLLUTANTS (AMBIENT AIR QUALITY OF KORBA)
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Station : Near Tehsil Office Rampur Korba		Date : 11.11.2015				Graph Factor	So ₂	No ₂	62
Shift :		1st Shift				11rd Shift			
Monitoring Period		06:00AM 10:00AM	10:00AM 02:00PM	02:00PM 06:00PM	06:00PM 10:00PM	10:00PM 02:00AM	02:00AM 06:00AM		
Parameter	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	No ₂
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minutes)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Initial Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Final Volume of Sample (MI)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Volume Taken For Analysis (MI)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Total Volume of Air Sampled (lit.)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Absorbance (Blank)	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013	0.013
Absorbance (Sample)	0.024	0.051	0.021	0.048	0.029	0.055	0.048	0.074	0.034
Concentration (µg/m ³)	12.40	22.01	10.07	20.27	16.27	24.32	31.00	35.33	24.80
24 Hourly Average So ₂ (µg/m ³)	19.11				24 Hourly Average No ₂ (µg/m ³)				26.35
Remarks :	Dipawali Day				Dipawali Day				Dipawali Day
Name & Signature of Official on duty	 Jaikaran Singh				 Jaikaran Singh				 Jaikaran Singh

ANNEXURE -III

DATA SHEET FOR GASEOUS POLLUTANTS (AMBIENT AIR QUALITY OF KORBA)
DATA SHEET FOR GASEOUS AIR POLLUTANTS

Station : T. P. Nagar Korba		Date : 11.11.2015						Graph Factor	So ₂	No ₂	38	
Shift	1st Shift						IInd Shift			IIIrd Shift		
Monitoring Period	06:00AM 10:00AM	10:00AM 02:00PM	02:00PM 06:00PM	06:00PM 10:00PM	10:00PM 02:00AM	02:00AM 06:00AM	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂
Parameter	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂	So ₂	No ₂
Hourly Flow Rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average Flow rate (lpm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Operation Time (Minutes)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Initial Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Final Volume of Sample (ml)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Volume Taken For Analysis (ml)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Total Volume of Air Sampled (lit.)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
Absorbance (Blank)	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013	0.008	0.013
Absorbance (Sample)	0.029	0.051	0.032	0.053	0.034	0.059	0.063	0.091	0.056	0.080	0.040	0.068
Concentration (µg/m ³)	16.27	22.01	18.60	23.17	20.15	26.64	42.62	45.18	37.20	38.81	24.80	31.85
24 Hourly Average So ₂ (µg/m ³)	26.60						24 Hourly Average No ₂ (µg/m ³)			31.27		
Remarks :	Dipawali Day						Dipawali Day			Dipawali Day		
Name & Signature of Official on duty	S. Singh						S. Singh			S. Singh		

Format of Report: Deepavali Monitoring 2015

City: KORBA

- Latitude & Longitude 22° 20' (N) & 82° 42' (E)
- Climate / Meteorology Clear
- Population 1206640 Lakh
- Major Land use

Monitoring Location:

- Map showing all monitoring location of the city - Attached
- Description of monitoring site: Area/ Zone; Residential, Commercial & Silence
- Activities around the monitoring location/Sources of Noise Pollution - Vehicle and Crackers

Date / Observation : 05.11.2015 & 11.11.2015

Noise Level During Deepavali Festival, 2015 :

Location: A Residential Zone Darri Jamanipali Korba	Normal Day			Deepavali Day		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time Duration						
18:00 to 19:00 Hr	58.10	64.20	61.15	61.70	69.40	65.55
19:00 to 20:00 Hr	59.80	67.60	63.70	68.80	78.60	73.70
20:00 to 21:00 Hr	61.30	70.50	65.90	70.40	87.50	78.95
21:00 to 22:00 Hr	59.20	62.70	60.95	74.70	91.60	83.15
22:00 to 23:00 Hr	56.60	60.30	58.45	71.40	89.30	80.35
23:00 to 24:00 Hr	42.20	44.20	43.20	65.60	78.50	72.05

Location: B Residential Zone Near Tehsil Office Rampur Korba	Normal Day			Deepavali Day		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time Duration						
18:00 to 19:00 Hr	53.20	58.20	55.70	59.60	65.40	62.50
19:00 to 20:00 Hr	56.10	63.30	59.70	63.80	71.60	67.70
20:00 to 21:00 Hr	52.60	56.40	54.50	68.10	79.50	73.80
21:00 to 22:00 Hr	50.40	56.20	53.30	72.40	86.30	79.35
22:00 to 23:00 Hr	46.20	51.60	48.90	70.20	81.70	75.95
23:00 to 24:00 Hr	38.80	43.20	41.00	58.30	65.20	61.75

Location: C T.P.Nagar Korba, Commercial Zone	Normal Day			Deepavali Day		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time Duration						
18:00 to 19:00 Hr	61.90	70.60	66.25	70.60	82.40	76.50
19:00 to 20:00 Hr	68.20	74.50	71.35	74.50	87.30	80.90
20:00 to 21:00 Hr	66.40	70.20	68.30	80.30	104.50	92.40
21:00 to 22:00 Hr	70.50	78.40	74.45	78.40	99.60	89.00
22:00 to 23:00 Hr	71.60	76.80	74.20	73.30	90.80	82.05
23:00 to 24:00 Hr	65.90	69.40	67.65	69.80	81.50	75.65

B. K. S. A. T.

Interpretation of Noise Date/ Results ;

Report the compliance of the Noise level with standard limits for that area. The increase of decrease of the noise level on a particular day, state the cause of increase of decrease.

Ambient Air Monitoring During Deepavali festival, 2015

Date / Observation ;

Ambient Air Quality during Deepavali 2015							
Parameter	So ₂		No ₂		PM ₁₀		
Monitoring Day	Pre-	Deepavali	Pre-	Deepavali	Pre-	Deepavali	
Date 05.11.2015 & 11.11.2015, Location - Darri Jamnipali Korba							
A	10.07	11.23	15.92	19.98	59.03	67.16	
B	12.78	24.41	17.95	29.54	73.70	236.0	
C	9.68	23.63	15.63	27.80	53.91	165.19	
Concentration Range	Min	9.68	11.23	15.63	19.98	53.91	67.16
	Max	12.78	24.41	17.95	29.54	73.70	236.0
National Ambient Air Quality Standards	80		80		100		
All Values of concentration are in µg/m ³ of air							

Ambient Air Quality during Deepavali 2015							
Parameter	So ₂		No ₂		PM ₁₀		
Monitoring Day	Pre-	Deepavali	Pre-	Deepavali	Pre-	Deepavali	
Date 05.11.2015 & 11.11.2015, Location - Near Tehsil Office Rampur Korba							
A	12.39	11.23	16.79	21.14	64.39	94.64	
B	14.33	23.63	19.69	29.82	71.58	198.91	
C	10.84	22.47	17.08	28.08	58.52	161.73	
Concentration Range	Min	10.84	11.23	16.79	21.14	58.52	94.64
	Max	14.33	23.63	19.69	29.82	71.58	198.91
National Ambient Air Quality Standards	80		80		100		
All Values of concentration are in µg/m ³ of air							

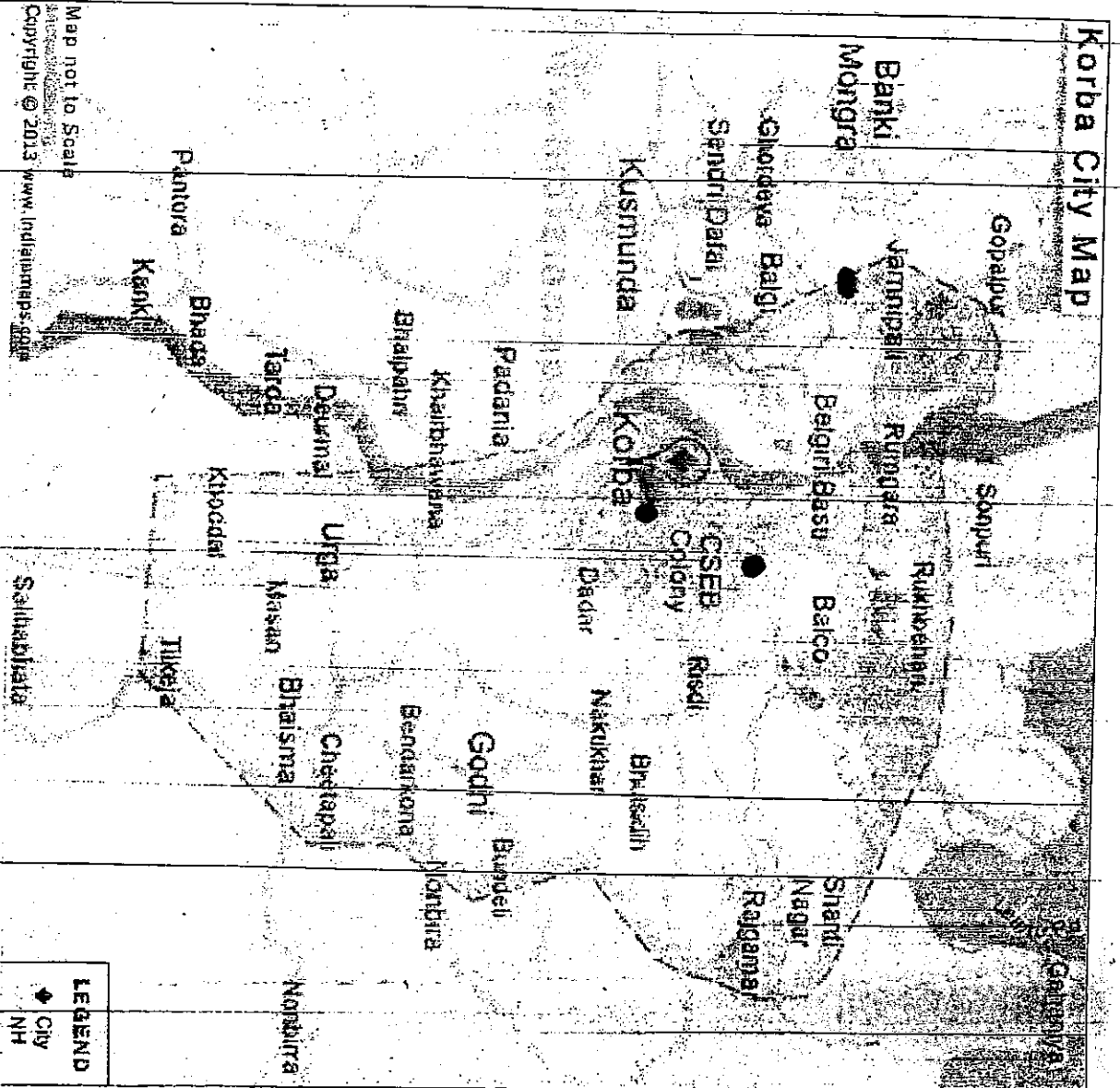
Ambient Air Quality during Deepavali 2015							
Parameter	So ₂		No ₂		PM ₁₀		
Monitoring Day	Pre-	Deepavali	Pre-	Deepavali	Pre-	Deepavali	
Date 05.11.2015 & 11.11.2015, Location - T.P. Nagar Korba							
A	15.11	17.43	18.82	22.59	128.25	172.45	
B	17.04	31.38	22.01	35.91	155.13	385.54	
C	15.49	31.00	20.56	35.33	105.41	205.62	
Concentration Range	Min	15.11	17.43	18.82	22.59	105.41	172.45
	Max	17.04	31.38	22.01	35.91	155.13	385.54
National Ambient Air Quality Standards	80		80		100		
All Values of concentration are in µg/m ³ of air							

Interpretation of Ambient Air Quality Date/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 pollutatants concentration.

BP Mishra
Lab Asst.

Korba City Map



Monitoring location during on dipawali

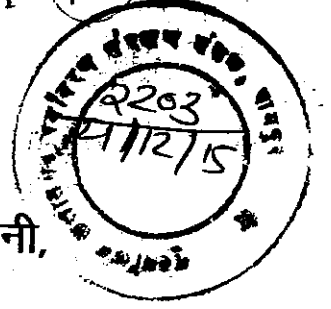
Darni Jamwadi Korba

Near Tehsil office Rampur Korba

T.P. Nagar Korba



Ann edur-7



क्षेत्रीय कार्यालय

छत्तीसगढ़ पर्यावरण संरक्षण मण्डल,
एच.आई.जी. 5 एवं 6, अघनपुर, हाऊसिंग बोर्ड कालोनी,
चित्रकोट रोड, जगदलपुर (छ.ग.)-494001

दूरभाष नंबर-07782-229367, ई-मेल hocecbrojagdalpur@gmail.com

क्र. / 846 / क्षे.कार्या. / वैज्ञा. / छ.प.सं.मं. / 2015
प्रति,

जगदलपुर दिनांक 20.11.15

✓ सदस्य सचिव,
छ.ग. पर्यावरण संरक्षण मंडल,
रायपुर (छ.ग.)

विषय:- दीपावली त्यौहार के दौरान परिवेशीय वायु गुणवत्ता एवं ध्वनि स्तर मापन के संबंध में।

संदर्भ:- मंडल मुख्यालय का पत्र क्रमांक 3497 दिनांक 27.10.2015

-: 00 :-

महोदय,

उपरोक्त विषयांतर्गत वर्ष 2015 में इस कार्यालय द्वारा दीपावली त्यौहार के अवसर पर (दीपावली के पूर्व एवं दीपावली के दिन) परिवेशीय वायु गुणवत्ता मापन एवं ध्वनि स्तर मापन कार्य संपादित किया गया। तत्संबंध में केन्द्रीय प्रदूषण नियंत्रण बोर्ड, नई दिल्ली की डाटा शीट 4 में प्रतिवेदन संलग्न है। तदनुसार दीपावली से पूर्व क्षेत्रीय कार्यालय भवन में एस.पी.एम. का औसत परिणाम $160 \mu\text{g}/\text{m}^3$ एवं संजय मार्केट चौक में एस.पी.एम. का औसत परिणाम $223 \mu\text{g}/\text{m}^3$ पाया गया। इसी प्रकार SO_2 & NO_x के विश्लेषण परिणाम भी निर्धारित मानक ($80 \mu\text{g}/\text{m}^3$) से कम पाये गये। किन्तु दीपावली के दिन दिनांक 11.11.2015 को क्षेत्रीय कार्यालय भवन एवं संजय मार्केट चौक में औसत एस.पी.एम. दिनांक 05.11.2015 की तुलना में कुछ ज्यादा पाया गया। इसी प्रकार ध्वनि स्तर दीपावली दिवस में तीन चयनित बिन्दुओं हाऊसिंग बोर्ड कॉलोनी धरमपुरा, संजय मार्केट चौक एवं महारानी हास्पिटल परिसर, जगदलपुर में निर्धारित मानकों से ज्यादा पटाखे फोड़े जाने के कारण पाया गया। इस कार्यालय का रेसपाइरेबल डस्ट सेम्पलर खराब होने के कारण PM 10/RSPM की मॉनिटरिंग नहीं की जा सकी। रिपोर्ट कृपया अग्रिम कार्यवाही हेतु प्रेषित है। सी.डी. संलग्न है।

संलग्न:- उपरोक्तानुसार।

1 से 5 तक

CE(I/c) / ACE(R/L)
SE(B/M/S) / EE / CC
RO / SO(A/c) / Stf.O / SO-I/II

MEMBER SECRETARY

क्षेत्रीय अधिकारी

छत्तीसगढ़ पर्यावरण संरक्षण मण्डल
जगदलपुर (छ.ग.)

Annexure - IV

City : Jagdalpur

• Latitude/Longitude : 19.0700°N / 82.0300°E

• Climate & Meteorology : During Monitoring time weather was clear

• Population : 1.50 Lakh

• Major Land Use : Forest

Monitoring Locations:

• Map Showing all monitoring Locations of the city - is attached

• Description of monitoring site : Area/Zone : Residential/ Commercial / Silent

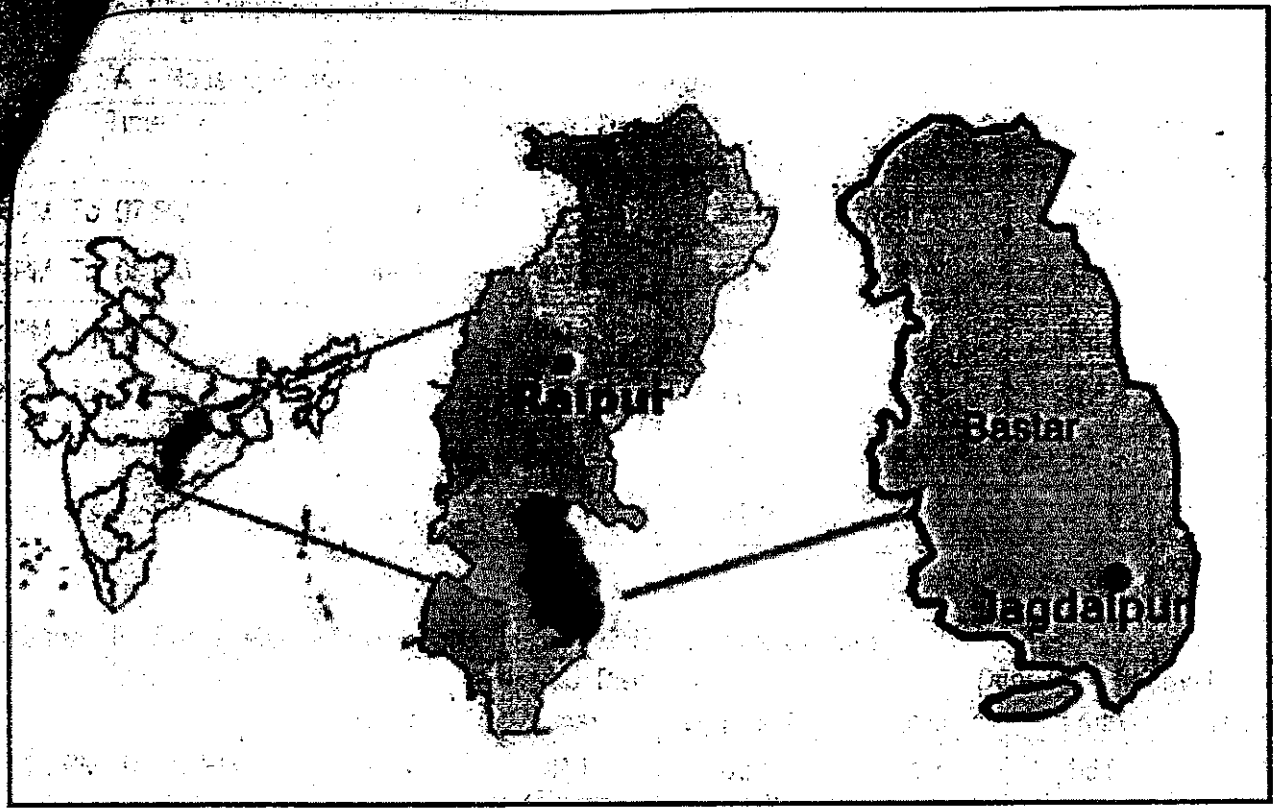
1. Location : A - Housing Board Colony Dharampura, Jagdalpur (ZONE -Residential area)

2. Location : B Sanjay Market Chowk, Jagdalpur. (ZONE - Commercial area)

3. Location : C Maharani Hospital Parisar, Jagdalpur. (ZONE - Silence area)

Activities around the monitoring locations/sources of Noise Pollution - Due to Vehicles running

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- Location A - Housing Board Colony, Dharampura, Jagdalpur /Regional Office, CECEB Jagdalpur Office Building**
- Location B - Sanjay Market Chowk, Jagdalpur**
- Location C - Maharani Hospital Parisar, Jagdalpur**

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Location :

during Deepawali Festival 2015

Location : A - Housing Board Colony Dharampura Jagdalpur (ZONE -Residential area)

Time	Normal Day			Deepawali Festival		
	Lmin	Lmax	Leq dB (A)	Lmin	Lmax	Leq dB (A)
06 PM To 07 PM	46.3	68.4	49.7	42.6	88.4	61.2
07 PM To 08 PM	48.9	81.2	61.5	41.7	91.5	64.9
08 PM To 09 PM	42.6	83.1	62.4	42.5	99.5	68.8
09 PM To 10 PM	40.8	80.5	60.1	40.1	106.4	73.3
10 PM To 11 PM	38.9	68.4	47.2	42.5	89.5	56.8
11 PM To 12 PM	34.1	66.7	42.5	41.9	72.8	51.9

Location : B Sanjay Market Chowk Jagdalpur. (ZONE - Commercial area)

Time	Normal Day			Deepawali Festival		
	Lmin	Lmax	Leq dB (A)	Lmin	Lmax	Leq dB (A)
06 PM To 07 PM	47.4	81.8	62.4	51.3	95.9	71.5
07 PM To 08 PM	49.8	83.5	66.2	48.0	101.6	74.9
08 PM To 09 PM	46.5	88.4	68.7	56.7	108.3	84.4
09 PM To 10 PM	40.2	79.3	61.8	52.7	112.4	85.8
10 PM To 11 PM	42.8	72.0	58.1	41.8	110.5	71.5
11 PM To 12 PM	41.3	70.6	52.8	40.6	79.6	59.8

Location : C Maharani Hospital Parisar Jagdalpur. (ZONE - Silence area)

Time	Normal Day			Deepawali Festival		
	Lmin	Lmax	Leq dB (A)	Lmin	Lmax	Leq dB (A)
06 PM To 07 PM	41.0	64.2	45.7	42.1	59.6	53.8
07 PM To 08 PM	44.9	66.7	52.2	40.3	94.6	67.3
08 PM To 09 PM	46.1	73.4	59.3	41.7	101.7	72.4
09 PM To 10 PM	38.6	67.4	58.2	38.8	96.1	68.8
10 PM To 11 PM	34.2	67.0	48.1	42.2	84.7	63.10
11 PM To 12 PM	32.5	61.1	44.2	41.6	66.5	51.4

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1. Presentation of Noise Data/Result

Location A - Housing Board Colony Dharampura, Jagdalpur

(ZONE - Residential area)

During normal day noise level was between 42.5 and 62.4. During diwali day noise level was between 51.9 to 73.3. Normal day of noise levels have been found above the prescribed standard (day time 55 and night time 45) due to passing of vehicles. Housing board colony is situated beside Chitakote Road, so Vehicles are passing whole day, which is a main reason of increasing the noise level of this area.

2. Sanjay Market Chowk, Jagdalpur. (ZONE - Commercial area)

During normal day noise level was between 52.8 and 68.7. During diwali day noise level was between 59.8 to 85.8. Normal day of noise levels have been found above the prescribed standard (day time 65 and night time 55). This is a commercial area & a main market of Jagdalpur. Vehicles are passing whole day, which is a main reason of increasing the noise level of this area.

3. Maharani Hospital Parisar Jagdalpur. (ZONE - Silence area)

During normal day noise level was between 44.2 and 59.3. During diwali day noise level was between 51.4 to 72.4. Normal day of noise levels have been found above the prescribed standard (day time 50 and night time 40). This is a silent zone. It is a centre of city. Main chowk is chandni chowk, which is nearest of it. Most of government offices are situated near by it, which is a main reason of increasing the noise level of this area.

Format of Report : Deepawali Monitoring 2015

ation :

Ambient Air Monitoring during Deepawali Festival 2015

Parameters monitored

Monitoring Location	Normal Day (05.11.2015)			Deepawali Festival (11.11.2015)		
	SO ₂	NO ₂	SPM	SO ₂	NO ₂	SPM
Regional Office, CECB, Jagdalpur Office Building	9	11	160	21	23	239
Sanjay Market Chowk Jagdalpur.	11	14	223	23	26	273
NAAQ Standards	80	80	-	80	80	-

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

Interpretation of Ambient Air quality data/result

(a) Suspended particular matters :

SPM Value during normal day ranged between 150.29 and 235.93. During diwali day SPM ranged between 224.04 and 297.93. The SPM levels have been found above in diwali day is comparison to normal day due to crackers.

(b) Sulphur dioxide (SO₂)

During normal day SO₂ ranged between 7 and 13. During Deewali day between 13 and 30. SO₂ levels have been found within the prescribed standard of 80 µg/m³.

(c) Nitrogen Dioxide (NO₂)

Nitrogen dioxide value during normal day ranged between 8 and 18. During Deewali day day NO₂ ranged between 14 and 38. The NO₂ levels are within the prescribed standard of 80 µg/m³.

Any other Information pertains to the monitoring activities

== X ==