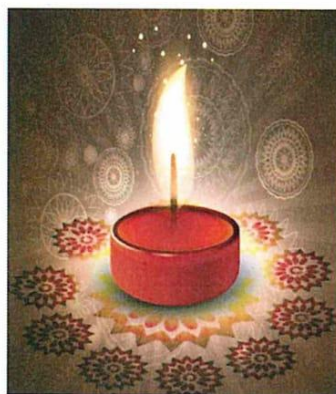


DEEPAWALI FESTIVAL MONITORING REPORT (2017)



NOISE LEVEL & AMBIENT AIR QUALITY
MONITORING



Prepared By

RAJASTHAN STATE POLLUTION CONTROL BOARD

PREFACE

Deepawali is considered as the festival of light and is celebrated with utmost enthusiasm all over India. Bursting of firecrackers and illumination of houses is seen as a symbol of joy and prosperity. Noise and Air pollution due to these fire crackers is well known. It is, therefore, becomes necessary to conduct Noise and Ambient Air monitoring during this festival to understand the level of pollution.

Noise Level Monitoring was conducted on **12.10.2017 (Pre-Deepawali Day) & 19.10.2017 (On Deepawali Day)** at **32** different locations in fourteen cities viz. Alwar, Balotra, Bharatpur, Bhilwara, Bhiwadi, Bikaner, Chittorgarh, Jaipur, Jodhpur, Ajmer, Kota, Pali, Sikar and Udaipur. Ambient Air Quality Monitoring was also carried out on 12.10.2017 (Pre-Deepawali Day) from 06:00 AM 12.10.2017 to 06:00 AM 13.10.2017 as well as on 19.10.2017 (Deepawali day) from 06:00 AM 19.10.2017 to 06:00 AM 20.10.2017 at **38** different locations in eight cities namely; Alwar, Bhiwadi, Bharatpur, Jaipur, Jodhpur, Kota, Sikar and Udaipur.

This report is a compilation of Noise Level and Ambient Air Quality Monitoring data of the monitored cities of the state of Rajasthan. The data of previous years have also been incorporated.

I, sincerely, acknowledge the effort of all officials associated with the work for monitoring of noise and air pollution levels on Deepawali festival as per the protocol prescribed by CPCB. It would not have been possible to compile and complete this report on noise and ambient air quality without their sincere support and efforts.

Chief Scientific Officer

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In order to assess the impact of bursting of fire crackers and other predominating noise and air polluting activities on the occasion of Deepawali Rajasthan State Pollution Control Board undertook Noise Level and Ambient Air Quality Monitoring (AAQM) at several locations in the state.

Noise Level Monitoring was conducted on **12.10.2017 (Pre-Deepawali Day Day)** & **19.10.2017 (On Deepawali Day)** at **32** different locations in thirteen cities viz. Alwar, Balotra, Bharatpur, Bhilwara, Bhiwadi, Bikaner, Chittorgarh, Jaipur, Jodhpur, Ajmer, Kota, Pali, Sikar and Udaipur. The Noise level monitoring was conducted day time (18:00 hrs to 22:00 hrs) and night time (22:00 hrs to 24:00 hrs) continuously at each location with sampling frequency of one second.

AAQM was also carried out on 12.10.2017 (Pre-Deepawali Day) from 06:00 AM 12.10.2017 to 06:00 AM 13.10.2017 as well as on 19.10.2017 (Deepawali day) from 06:00 AM 19.10.2017 to 06:00 AM 20.10.2017 at **38** different locations in eight cities namely; Alwar, Bhiwadi, Bharatpur, Jaipur, Jodhpur, Kota, Sikar and Udaipur. The ambient air quality monitoring was carried out for minimum 24 hours as per the NAMP format of CPCB on both the days of monitoring. During this period samples of ambient air for Particulate Matter (PM₁₀), Sulphur Dioxide (SO₂) and Nitrogen Dioxide (NO₂) were collected and analyzed.

Monitoring Network:

In order to maintain uniformity in monitoring, the entire Noise Level and Ambient Air Quality Monitoring was conducted as per the CPCB protocol. Residential, Commercial, and Silence zones were selected in respect of Noise Standards prescribed under the provisions of Noise Pollution (Regulation &



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Control) Rules, 2000. The monitoring network consisted of a total of 32 noise monitoring locations and 38 Ambient Air Quality Monitoring stations across thirteen cities of Rajasthan.

Table 1: City wise number of monitoring locations

S. No.	Name of the city	No. of Monitoring locations	
		Noise	AAQM
1	Alwar	3	3
2	Ajmer	1	—
3	Balotra	1	—
4	Bhilwara	2	—
5	Bhiwadi	3	3
6	Bikaner	1	—
7	Chittorgarh	2	—
8	Jaipur	6	9
9	Jodhpur	2	9
10	Kota	3	6
11	Pali	3	—
12	Sikar	1	2
13	Udaipur	3	3
14	Bharatpur	1	3
Total		32	38

Monitoring Results:

The comparative statement of noise level monitoring on the occasion of Deepawali festival before & on Deepawali i.e. 12.10.2017 & 19.10.2017 is as under:



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Table 2: NOISE LEVEL IN *L*MIN, *L*MAX AND *LEQ* dB(A) BEFORE & ON DEEPAWALI (12.10.2017 & 19.10.2017)

City	Name of the Station	Date	Day/Night	Pre-Deepawali Day			On Deepawali		
				12.10.2017			19.10.2017		
				Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Jaipur	Gandhi Nagar (Residential)	18:00 to 19:00 Hr	Day Time	47.6	91.5	56.5	44.6	108.4	49.7
		19:00 to 20:00 Hr		43.2	90.6	61.4	45.7	70.4	60.0
		20:00 to 21:00 Hr	Night Time	37.4	91.1	61.5	49.5	97.3	70.8
		21:00 to 22:00 Hr		33.0	83.9	56.7	50.2	97.9	76.0
		22:00 to 23:00 Hr		39.7	83.0	55.1	52.8	97.9	74.4
		23:00 to 24:00 Hr		38.9	84.6	53.6	50.6	88.6	73.3
Jaipur	Jawahar Nagar (Residential)	18:00 to 19:00 Hr	Day Time	53.9	101.1	73.7	44.8	104.9	69.4
		19:00 to 20:00 Hr		49.3	94.9	67.1	47.3	108.2	72.0
		20:00 to 21:00 Hr	Night Time	51.3	83.5	59.9	45.9	110.3	75.3
		21:00 to 22:00 Hr		47.7	83.1	57.6	51.5	109.6	77.3
		22:00 to 23:00 Hr		50.1	94.4	57.8	53.2	112.2	82.6
		23:00 to 24:00 Hr		46.7	72.6	53.7	48.8	109.6	82.3
Jaipur	Raja Park (Commercial)	18:00 to 19:00 Hr	Day Time	58.9	93.3	68.6	56.3	100.1	74.5
		19:00 to 20:00 Hr		55.7	90.4	68.0	43.9	97.2	66.3
		20:00 to 21:00 Hr	Night Time	58.4	94.3	69.0	52.9	104.5	71.6
		21:00 to 22:00 Hr		56.8	86.2	65.4	55.0	105.5	75.8
		22:00 to 23:00 Hr		55.7	90.9	64.2	61.5	109.1	79.6
		23:00 to 24:00 Hr		52.7	81.7	60.7	44.1	96.4	72.9
Jaipur	Mansarovar (Commercial)	18:00 to 19:00 Hr	Day Time	53.5	98.6	66.0	34.6	86.2	70.2
		19:00 to 20:00 Hr		57.5	96.3	64.9	40.9	113.8	71.0
		20:00 to 21:00 Hr	Night Time	57.8	85.2	64.2	56.9	101.0	80.6
		21:00 to 22:00 Hr		56.4	83.0	64.1	57.8	102.0	82.1
		22:00 to 23:00 Hr		49.8	86.6	62.8	51.8	96.0	80.7
		23:00 to 24:00 Hr		41.7	82.7	58.7	26.6	93.4	76.4
Jaipur	SDM Hospital (Silence)	18:00 to 19:00 Hr	Day Time	62.8	97.0	85.9	53.2	90.7	71.6
		19:00 to 20:00 Hr		59.0	91.6	75.7	53.5	87.5	69.4
		20:00 to 21:00 Hr	Night Time	57.8	91.6	75.1	55.7	101.0	73.4
		21:00 to 22:00 Hr		58.6	94.1	74.0	54.2	100.6	75.9
		22:00 to 23:00 Hr		53.8	94.6	71.3	56.9	100.1	78.6
		23:00 to 24:00 Hr		52.7	86.4	69.1	45.3	118.2	87.2
Jaipur	Civil Lines (Silence)	18:00 to 19:00 Hr	Day Time	52.6	104.7	68.0	45.6	102.1	67.0
		19:00 to 20:00 Hr		48.8	96.0	64.9	46.0	101.6	67.1
		20:00 to 21:00 Hr	Night Time	48.2	84.9	64.0	50.7	101.8	73.1
		21:00 to 22:00 Hr		49.1	87.0	64.6	54.3	106.2	75.0
		22:00 to 23:00 Hr		27.6	92.9	72.7	54.8	121.4	80.0
		23:00 to 24:00 Hr		29.0	84.3	51.3	41.8	101.7	72.6



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City	Name of the Station	Time	Day/Night	Pre-Deepawali Day			On Deepawali		
				12.10.2017			19.10.2017		
				Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Ajmer	Kutchery Road, Ajmer (Residential)	18:00 to 19:00 Hr	Day Time	52.8	86.5	64.1	54.5	91.1	69.5
		19:00 to 20:00 Hr	Day Time	52.8	82.4	62.0	53.1	96.3	68.7
		20:00 to 21:00 Hr	Day Time	52.2	84.4	62.9	55.2	107.9	77.4
		21:00 to 22:00 Hr	Day Time	48.9	87.4	64.9	57.9	104.7	78.2
		22:00 to 23:00 Hr	Night Time	46.4	81.4	59.5	57.5	109.1	76.1
		23:00 to 24:00 Hr	Night Time	43.4	84.4	59.5	55.6	106.4	75.3
Bhilwara	Near C-209, Azad Nagar, Bhilwara (Residential)	18:00 to 19:00 Hr	Day Time	46.4	100.8	66.8	47.8	93.9	65.8
		19:00 to 20:00 Hr	Day Time	49.5	101.5	67.7	46.8	107.1	71.5
		20:00 to 21:00 Hr	Day Time	48.5	105.0	66.7	50.7	120.7	88.4
		21:00 to 22:00 Hr	Day Time	41.9	91.4	66.8	52.7	117.9	86.0
		22:00 to 23:00 Hr	Night Time	45.6	94.5	67.0	53.9	124.4	91.2
		23:00 to 24:00 Hr	Night Time	34.1	90.4	59.9	47.6	121.2	87.7
Bhilwara	Near Kumbha Circle, Azad Nagar, Bhilwara (Commercial)	18:00 to 19:00 Hr	Day Time	43.9	85.9	68.5	58.3	103.3	77.8
		19:00 to 20:00 Hr	Day Time	57.3	83.6	67.1	64.5	122.5	86.3
		20:00 to 21:00 Hr	Day Time	55.8	91.5	66.9	64.3	107.2	79.1
		21:00 to 22:00 Hr	Day Time	52.6	95.9	66.6	66.2	121.2	85.9
		22:00 to 23:00 Hr	Night Time	42.7	83.8	63.4	65.1	120.0	84.2
		23:00 to 24:00 Hr	Night Time	39.2	89.2	60.6	64.7	114.1	82.9
Pali	Near M/s Maharaja Shree Umed Mills, Pali (Residential)	18:00 to 19:00 Hr	Day Time	48.3	89.5	63.0	48.5	104.8	66.6
		19:00 to 20:00 Hr	Day Time	47.8	94.1	63.7	49.5	111.0	73.8
		20:00 to 21:00 Hr	Day Time	49.2	87.4	64.8	51.1	104.1	75.4
		21:00 to 22:00 Hr	Day Time	48.2	85.0	63.8	53.0	108.6	76.6
		22:00 to 23:00 Hr	Night Time	44.9	82.6	58.0	52.4	110.9	79.6
		23:00 to 24:00 Hr	Night Time	42.3	87.2	53.2	48.1	114.1	82.9
Pali	Surajpol, Near Townhall, Pali (Commercial)	18:00 to 19:00 Hr	Day Time	50.4	86.4	65.3	53.4	107.6	76.5
		19:00 to 20:00 Hr	Day Time	42.7	105.5	66.8	50.9	122.3	89.3
		20:00 to 21:00 Hr	Day Time	43.5	109.6	74.6	40.7	122.7	92.3
		21:00 to 22:00 Hr	Day Time	45.8	56.4	51.6	40.4	115.1	82.2
		22:00 to 23:00 Hr	Night Time	45.0	60.2	48.8	44.6	105.1	72.1
		23:00 to 24:00 Hr	Night Time	45.3	100.9	67.0	40.2	109.9	67.0
Pali	Govt. Bangur Hospital, Pali (Silence)	18:00 to 19:00 Hr	Day Time	31.6	77.1	41.9	38.7	77.1	50.6
		19:00 to 20:00 Hr	Day Time	31.6	77.4	47.2	31.6	97.6	69.7
		20:00 to 21:00 Hr	Day Time	37.2	59.3	51.1	34.8	98.7	66.5
		21:00 to 22:00 Hr	Day Time	31.6	89.5	50.1	41.6	97.5	66.5
		22:00 to 23:00 Hr	Night Time	31.6	74.3	48.3	31.6	70.2	45.1
		23:00 to 24:00 Hr	Night Time	31.6	66.5	39.5	51.2	60.4	57.1



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City	Name of the Station	Time	Day/ Night	Pre-Deepawali Day			On Deepawali		
				12.10.2017			19.10.2017		
				Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Bikaner	Junagarh (Commercial)	18:00 to 19:00 Hr	Day Time	62.9	99.9	75.5	63.8	111.1	78.6
		19:00 to 20:00 Hr	Day Time	62.6	96.1	73.0	62.3	108.3	76.4
		20:00 to 21:00 Hr	Day Time	59.5	94.9	72.8	62.6	106.3	78.6
		21:00 to 22:00 Hr	Day Time	58.6	97.5	76.2	62.7	108.5	79.3
		22:00 to 23:00 Hr	Night Time	53.6	99.7	69.9	60.8	116.8	80.9
		23:00 to 24:00 Hr	Night Time	48.9	97.4	65.6	61.1	120.7	87.6
Jodhpur	Shashtri Nagar Police Station (Commercial)	18:00 to 19:00 Hr	Day Time	56.5	93.9	64.7	56.0	100.3	65.7
		19:00 to 20:00 Hr	Day Time	56.2	103.7	71.6	55.6	99.7	69.3
		20:00 to 21:00 Hr	Day Time	58.0	92.5	72.1	56.2	98.1	70.8
		21:00 to 22:00 Hr	Day Time	55.4	79.5	61.4	57.2	98.7	74.1
		22:00 to 23:00 Hr	Night Time	52.9	77.6	59.3	57.6	98.5	74.7
		23:00 to 24:00 Hr	Night Time	49.6	73.8	56.8	57.7	102.7	75.3
Jodhpur	Maha Mandir Police Station (Residential)	18:00 to 19:00 Hr	Day Time	39.6	116.6	75.7	48.5	100.7	67.6
		19:00 to 20:00 Hr	Day Time	45.6	117.6	77.0	48.1	107.3	71.1
		20:00 to 21:00 Hr	Day Time	46.2	91.4	60.2	49.9	113.3	81.4
		21:00 to 22:00 Hr	Day Time	46.2	94.7	64.6	54.5	114.2	80.4
		22:00 to 23:00 Hr	Night Time	41.2	101.2	62.7	57.4	114.2	82.2
		23:00 to 24:00 Hr	Night Time	42.2	92.1	59.6	53.1	114.6	81.9
Kota	MBS Hospital (Silence)	18:00 to 19:00 Hr	Day Time	32.4	85.0	54.9	47.5	76.3	57.0
		19:00 to 20:00 Hr	Day Time	32.4	74.0	52.1	60.4	67.1	63.9
		20:00 to 21:00 Hr	Day Time	32.3	87.5	63.4	59.9	70.8	65.6
		21:00 to 22:00 Hr	Day Time	62.2	76.8	71.6	60.3	77.9	66.8
		22:00 to 23:00 Hr	Night Time	58.9	76.7	71.6	61.1	71.6	66.6
		23:00 to 24:00 Hr	Night Time	32.2	77.5	66.8	32.2	72.1	64.7
Kota	Dadawada (Residential)	18:00 to 19:00 Hr	Day Time	35.4	86.6	58.3	41.4	85.7	54.8
		19:00 to 20:00 Hr	Day Time	41.5	90.2	60.6	41.3	94.9	62.0
		20:00 to 21:00 Hr	Day Time	34.6	87.0	52.8	42.2	96.8	67.8
		21:00 to 22:00 Hr	Day Time	36.8	79.8	52.8	48.8	94.4	71.9
		22:00 to 23:00 Hr	Night Time	31.7	74.3	46.7	49.3	95.5	72.3
		23:00 to 24:00 Hr	Night Time	30.9	72.0	43.5	44.2	96.0	71.6
Kota	Gumanpura (Commercial)	18:00 to 19:00 Hr	Day Time	51.5	95.2	67.2	60.8	98.1	71.2
		19:00 to 20:00 Hr	Day Time	51.5	97.8	67.4	59.7	116.7	81.2
		20:00 to 21:00 Hr	Day Time	50.0	86.7	65.8	61.5	110.4	75.7
		21:00 to 22:00 Hr	Day Time	50.6	91.4	68.1	61.4	122.7	82.1
		22:00 to 23:00 Hr	Day Time	48.9	89.8	65.4	60.5	107.6	74.4
		23:00 to 24:00 Hr	Night Time	46.1	86.8	62.8	61.3	109.9	76.4



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City	Name of the Station	Time	Day/Night	Pre-Deepawali Day			Deepawali Day		
				12.10.2017			19.10.2017		
				Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Udaipur	Near Suraj Pole Gate, Udaipur (Commercial)	18:00 to 19:00 Hr	Day Time	39.3	93.5	75	71.2	94.5	88.4
		19:00 to 20:00 Hr	Day Time	64.6	94.1	78.5	76.2	104.5	90.2
		20:00 to 21:00 Hr	Day Time	60.8	97.3	81.3	76	102.2	86.4
		21:00 to 22:00 Hr	Day Time	30.9	90.6	68	60.2	96.4	84.5
		22:00 to 23:00 Hr	Night Time	60.3	84.8	74.8	62.4	96.8	86.2
		23:00 to 24:00 Hr	Night Time	42.8	88.3	71	54.6	90.2	74.6
Udaipur	M.B. Hospital, Udaipur (Silence)	18:00 to 19:00 Hr	Day Time	56.8	83.1	65.3	59	99	82.9
		19:00 to 20:00 Hr	Day Time	67.1	83.2	70.6	51.9	94.4	77.9
		20:00 to 21:00 Hr	Day Time	66.4	82.7	69.9	49.1	100.1	72.9
		21:00 to 22:00 Hr	Day Time	65.3	85.7	71.1	49.3	87.1	66.5
		22:00 to 23:00 Hr	Night Time	66	83.1	70.1	54.4	90.6	70.2
		23:00 to 24:00 Hr	Night Time	54.4	80.2	64.2	44.9	81.2	62.4
Udaipur	Amba Mata Scheme, Udaipur (Residential)	18:00 to 19:00 Hr	Day Time	47.8	84.9	68.7	50.3	94.3	71.3
		19:00 to 20:00 Hr	Day Time	49.2	86.3	67.1	48.9	92.3	69.6
		20:00 to 21:00 Hr	Day Time	44.9	92.4	66.7	55.7	98.9	73
		21:00 to 22:00 Hr	Day Time	45	81.5	61	57.6	94.6	73.4
		22:00 to 23:00 Hr	Night Time	41.1	86.5	61.2	62	88.5	74.2
		23:00 to 24:00 Hr	Night Time	41.1	65.9	55.1	57.2	99.6	75.6
Alwar	Kala Kuan, Alwar (Residential)	18:00 to 19:00 Hr	Day Time	42.9	97.3	64.6	43.1	107.6	73.1
		19:00 to 20:00 Hr	Day Time	41.4	89.1	58.8	43.6	118.2	79.5
		20:00 to 21:00 Hr	Day Time	41.4	102.8	68.5	46.4	118.5	82.4
		21:00 to 22:00 Hr	Day Time	41.2	101.5	67.7	46.7	108.6	80.4
		22:00 to 23:00 Hr	Night Time	49.4	83.4	54.0	45.0	100.1	68.9
		23:00 to 24:00 Hr	Night Time	49.4	85.9	52.4	49.4	87.7	54.3
Alwar	General Hospital, Alwar (Silence)	18:00 to 19:00 Hr	Day Time	50.4	82.5	59.1	36.9	113.2	71.9
		19:00 to 20:00 Hr	Day Time	49.9	78.4	56.4	38.3	100.3	62.4
		20:00 to 21:00 Hr	Day Time	48.5	81.6	57.7	38.7	119.6	80.8
		21:00 to 22:00 Hr	Day Time	48.3	81.9	56.6	45.1	115.2	75.3
		22:00 to 23:00 Hr	Night Time	47.1	83.3	53.0	38.7	108.1	71.9
		23:00 to 24:00 Hr	Night Time	44.4	94.2	57.2	27.6	98.3	64.2
Alwar	Hope Circus, Alwar (Commercial)	18:00 to 19:00 Hr	Day Time	58.7	88.5	68.4	45.6	111.1	76.7
		19:00 to 20:00 Hr	Day Time	59.1	91.2	70.5	46.3	101.5	79.0
		20:00 to 21:00 Hr	Day Time	48.9	83.5	67.2	51.2	97.9	81.7
		21:00 to 22:00 Hr	Day Time	49.3	85.3	64.2	48.1	115.1	80.7
		22:00 to 23:00 Hr	Night Time	42.6	79.4	59.8	48.4	108.6	86.3
		23:00 to 24:00 Hr	Night Time	38.7	72.4	54.6	45.6	112.8	79.2



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City	Name of the Station	Time	Day/Night	Pre-Deepawali Day			Deepawali Day		
				12.10.2017			19.10.2017		
				Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Bhiwadi	Ashiana Garden Society, Bhiwadi (Residential)	18:00 to 19:00 Hr	Day Time	48.3	94.8	60.0	44.6	103.2	68.8
		19:00 to 20:00 Hr	Day Time	46.7	106.6	61.1	29.4	123.4	82.2
		20:00 to 21:00 Hr	Day Time	43.9	84.0	52.4	28.6	124.8	84.8
		21:00 to 22:00 Hr	Day Time	43.9	85.8	51.8	45.9	103.6	76.4
		22:00 to 23:00 Hr	Night Time	46.3	73.1	49.9	46.3	95.5	66.9
		23:00 to 24:00 Hr	Night Time	45.6	75.7	49.6	60.2	89.7	76.0
Bhiwadi	Star Hospital, Bhiwadi (Silence)	18:00 to 19:00 Hr	Day Time	40.9	89.2	65.9	42.1	99.1	69.0
		19:00 to 20:00 Hr	Day Time	34.5	119.9	76.8	43.8	125.6	83.5
		20:00 to 21:00 Hr	Day Time	33.2	86.4	64.3	42.9	100.7	70.5
		21:00 to 22:00 Hr	Day Time	60.7	98.9	59.6	45.2	95.3	72.8
		22:00 to 23:00 Hr	Night Time	36.6	91.6	67.9	54.4	85.0	68.0
		23:00 to 24:00 Hr	Night Time	33.1	89.8	68.6	54.8	87.2	70.3
Bhiwadi	Central Market, Bhiwadi (Commercial)	18:00 to 19:00 Hr	Day Time	63.4	98.0	72.9	61.1	103.6	72.0
		19:00 to 20:00 Hr	Day Time	61.6	97.2	72.6	60.5	121.2	77.3
		20:00 to 21:00 Hr	Day Time	59.9	96.0	70.5	61.4	124.6	80.6
		21:00 to 22:00 Hr	Day Time	57.3	95.5	69.8	55.8	116.6	85.6
		22:00 to 23:00 Hr	Night Time	53.1	93.2	69.6	52.2	111.6	73.5
		23:00 to 24:00 Hr	Night Time	49.9	91.9	67.5	44.5	96.3	67.6
Sikar	Shivsinghpura Housing Board, Nawalgarh Road, Sikar (Residential)	18:00 to 19:00 Hr	Day Time	49.8	96.3	67.4	39.2	88.1	58.7
		19:00 to 20:00 Hr	Day Time	52.8	81.4	58.9	41.0	96.2	67.4
		20:00 to 21:00 Hr	Day Time	52.5	77.3	57.3	42.1	100.4	70.7
		21:00 to 22:00 Hr	Day Time	36.4	85.5	57.2	42.7	98.8	70.4
		22:00 to 23:00 Hr	Night Time	34.2	62.9	42.0	33.7	94.7	63.8
		23:00 to 24:00 Hr	Night Time	25.6	79.0	53.6	32.4	97.3	56.1
Chittorgarh	Public Park, Chittorgarh (Commercial)	18:00 to 19:00 Hr	Day Time	56.4	94.1	68.4	58.5	93.6	69.8
		19:00 to 20:00 Hr	Day Time	55.3	96.6	66.1	57.8	106.6	72.9
		20:00 to 21:00 Hr	Day Time	55.1	83.4	66.4	58.6	103.3	77.4
		21:00 to 22:00 Hr	Day Time	50.6	95.7	64.3	64.1	108.7	78.2
		22:00 to 23:00 Hr	Night Time	47.1	102.2	65.5	59.8	109.9	77.4
		23:00 to 24:00 Hr	Night Time	42.0	84.6	55.1	59.2	105.9	80.5
Chittorgarh	Near Home Guard Office, Kumbha Nagar, Chittorgarh (Residential)	18:00 to 19:00 Hr	Day Time	43.8	96.3	67.8	43.8	117.9	77.1
		19:00 to 20:00 Hr	Day Time	42.6	96.2	67.7	46.0	112.5	79.7
		20:00 to 21:00 Hr	Day Time	40.7	93.0	66.3	49.2	125.8	89.2
		21:00 to 22:00 Hr	Day Time	39.4	98.6	67.2	49.5	118.8	82.4
		22:00 to 23:00 Hr	Night Time	37.8	91.4	63.4	45.5	113.1	82.6
		23:00 to 24:00 Hr	Night Time	37.4	95.3	58.5	45.1	116.9	81.6



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City	Name of the Station	Time	Day/Night	Pre-Deepawali Day			Deepawali Day		
				12.10.2017			19.10.2017		
				Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Bharatpur	Laxman Mandir Chouwk, Bharatpur (Commercial)	18:00 to 19:00 Hr	Day Time	50.2	95.2	59.3	25.7	90.3	57.6
		19:00 to 20:00 Hr	Day Time	50.4	97.7	58.9	26.7	96.3	59.0
		20:00 to 21:00 Hr	Day Time	49.3	102.7	67.0	29.4	84.7	54.1
		21:00 to 22:00 Hr	Day Time	48.6	97.2	61.9	52.1	102.8	68.1
		22:00 to 23:00 Hr	Night Time	50.6	88.5	61.8	31.1	116.4	75.8
		23:00 to 24:00 Hr	Night Time	50.0	87.5	61.8	49.9	90.6	62.6
Balotra	Maheshwari Bhawan, Near Ind railway Crossing, Balotra (Commercial)	18:00 to 19:00 Hr	Day Time	43.5	79.3	58.3	32.8	95.2	57.5
		19:00 to 20:00 Hr	Day Time	33.8	98.0	56.9	35.5	117.7	77.3
		20:00 to 21:00 Hr	Day Time	33.7	95.0	55.4	36.2	103.3	66.9
		21:00 to 22:00 Hr	Day Time	31.1	88.2	54.2	32.8	107.3	72.5
		22:00 to 23:00 Hr	Night Time	32.6	75.7	44.2	32.7	84.3	53.9
		23:00 to 24:00 Hr	Night Time	33.4	47.5	37.3	33.8	73.9	52.9

Noise level Standards in Leq dB(A)

Category of Area / Zone	Day	Night
Silence	50.0	40.0
Residential	55.0	45.0
Commercial	65.0	55.0

Interpretation:

Ambient Air Quality Levels in ($\mu\text{g}/\text{m}^3$) on Pre-Deepawali Day and Deepawali Day (2014 – 2017) in different cities of Rajasthan have been compiled at **Annexure A and B** respectively while Noise levels in Leq dB(A) on Pre-Deepawali Day and Deepawali day during Day and Night Time from 2014 - 2017 in different cities of Rajasthan have been compiled at **Annexure C**. City-wise detailed observations are as under:

Jaipur:

In Jaipur city, both Noise level monitoring and ambient air quality monitoring was carried out at nine locations.



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On Pre-Deepawali Day, PM₁₀ level has ranged between 112 to 275 µg/m³, while same on Deepawali day it has ranged between 245 to 496 µg/m³. The maximum PM₁₀ value of 496 µg/m³ was reported at VKIA, Jaipur on Deepawali Day.

On Pre-Deepawali Day, in comparison to 2016, the concentration of PM₁₀ has decreased at all monitoring locations except at Ajmeri Gate; the concentration of SO₂ has increased at all locations except at Ajmeri Gate and Chandpole; the concentration of NO₂ has increased at all locations except at VKIA and Malviya Industrial Area. On Deepawali day, in comparison to 2016, the concentration of PM₁₀ has decreased at all monitoring locations except at Chandpole, VKIA and Malviya Industrial Area; the concentration of SO₂ has increased at all locations except at Ajmeri Gate and Jhalana; the concentration of NO₂ has increased at all locations except at Jhalana and Chandpole.

On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has increased at all monitoring locations except at Gandhi Nagar where the concentration remained same as compared to 2016 and at Mansarovar where the concentration has decreased as compared to 2016 while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has increased at all monitoring locations except at Gandhi Nagar, Jawahar Nagar and Raja Park.

On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during night time has increased at all monitoring locations except at Gandhi Nagar and Mansarovar where the concentration has decreased as compared to 2016 while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time increased at all monitoring locations except at Gandhi Nagar and Jawahar Nagar.



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Ajmer:

In Ajmer city, Noise level monitoring was carried out at one location. In comparison to 2016, both on Pre-Deepawali Day and on Deepawali Day, the concentration of Leq dB(A) during day and night time has increased at the monitoring location.

Bhilwara:

In Bhilwara city, Noise level monitoring was carried out at two locations. On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased Near Kumbha Circle, Azad Nagar as compared to 2016 while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has increased at this location. On Pre-Deepawali Day and on Deepawali day, in comparison to 2016, the concentration of Leq dB(A) during night time has increased Near Kumbha Circle, Azad Nagar as compared to 2016.

Noise level observed near C-209, Azad Nagar cannot be compared with 2016 since this station was not monitored in 2016.

Pali:

In Pali city, Noise level monitoring was carried out at three locations. On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at all monitoring locations except at Surajpol, Near Townhall, where the concentration has remained same as compared to 2016 while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at all monitoring locations except at Surajpol, Near Townhall, where the concentration has increased as compared to 2016.

On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during night time has increased at all monitoring locations except at Govt. Bangur Hospital, where the concentration has decreased as compared to 2016 while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during night time has decreased at all monitoring locations except at



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Surajpol, Near Townhall, where the concentration has increased as compared to 2016.

Bikaner:

In Bikaner city, Noise level monitoring was carried out at one location. In comparison to 2016, on Pre-Deepawali Day, the concentration of Leq dB(A) during day time has increased at the monitoring location while on Deepawali day, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at the monitoring location.

On Pre-Deepawali Day, in comparison to 2016 the concentration of Leq dB(A) during night time has decreased at the monitoring location while on Deepawali day, in comparison to 2016, the concentration of Leq dB(A) during night time has increased at the monitoring location.

Jodhpur:

In Jodhpur city, Noise level monitoring was carried out at two locations and ambient air quality monitoring was carried out at nine locations. On Pre-Deepawali Day, PM₁₀ level has ranged between 134 to 311 µg/m³, while same on Deepawali day it has ranged between 360 to 734 µg/m³. The maximum PM₁₀ value of 734 µg/m³ was reported at Kudi Bhagtasni Police Station on Deepawali Day.

On Pre-Deepawali Day, in comparison to 2016, the concentration of PM₁₀ has increased at all monitoring locations except at District Industrial Corporation and Regional Office, RSPCB, Jodhpur; the concentration of SO₂ has decreased at all locations except at Regional Office, RSPCB, Jodhpur and Sojati Gate; the concentration of NO₂ has increased at all locations except at Shastri Nagar Police Station. On Deepawali day, in comparison to 2016, the concentration of PM₁₀ has increased at all monitoring locations; the concentration of SO₂ has decreased at all locations except at Shastri Nagar



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Police Station and Sojati Gate; the concentration of NO₂ has decreased at all locations except at Sojati Gate.

On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has increased at all monitoring locations while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at all monitoring locations. On Pre-Deepawali Day and on Deepawali day, in comparison to 2016, the concentration of Leq dB(A) during night time has increased at all monitoring locations.

Kota:

In Kota city, Noise level monitoring was carried out at three locations and ambient air quality monitoring was carried out at six locations.

On Pre-Deepawali Day, PM₁₀ level has ranged between 54 to 192 µg/m³, while same on Deepawali day it has ranged between 144 to 222 µg/m³. The maximum PM₁₀ value of 222 µg/m³ was reported at Municipal Corporation, Rampura on Deepawali Day.

On Pre-Deepawali Day, in comparison to 2016, the concentration of PM₁₀ has decreased at all monitoring locations except at Common STP, Balita and Regional Office, RSPCB, Kota; the concentration of SO₂ has increased at all locations except at Fire Station, S.N.Puram; the concentration of NO₂ has increased at all locations except at Regional Office, RSPCB, Kota and Rajasthan Technical University. On Deepawali day, in comparison to 2016, the concentration of PM₁₀ has decreased at all monitoring locations except at Rajasthan Technical University; the concentration of SO₂ has increased at all locations; the concentration of NO₂ has decreased at all locations except at Krishi Vigyan Kendra, Common STP, Balita and Fire Station, S.N.Puram.

On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has increased at all monitoring locations while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has increased at all monitoring locations except at Gumanpura.



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On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during night time has increased at all monitoring locations except at Dadawada while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at all monitoring locations except at Dadawada.

Udaipur:

In Udaipur city, both Noise level monitoring and ambient air quality monitoring were carried out at three locations.

On Pre-Deepawali Day, PM₁₀ level has ranged between 82 to 183 µg/m³, while same on Deepawali day it has ranged between 166 to 202 µg/m³. The maximum PM₁₀ value of 202 µg/m³ was reported at Regional Office, RSPCB, Udaipur on Deepawali Day.

On Pre-Deepawali Day, in comparison to 2016, the concentration of PM₁₀ has increased at all monitoring locations except at Regional Office, RSPCB, Udaipur; the concentration of SO₂ has decreased at all locations except at Regional Office, RSPCB, Udaipur; the concentration of NO₂ has increased at all locations. On Deepawali day, in comparison to 2016, the concentration of PM₁₀ has decreased at all monitoring locations except at Amba Mata, Near Police Chouki; the concentration of SO₂ has decreased at all locations; the concentration of NO₂ has decreased at all locations except at Amba Mata, Near Police Chouki.

On Pre-Deepawali Day and on Deepawali, in comparison to 2016, the concentration of Leq dB(A) during day time has increased at all monitoring locations except at Amba Mata Scheme.

On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during night time has increased at all monitoring locations except at Amba Mata Scheme while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at all monitoring locations except at M.B.Hospital.



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Sikar:

In Sikar city, Noise level monitoring was carried out at one location and ambient air quality monitoring was carried out at two locations.

On Pre-Deepawali Day, PM₁₀ level has ranged between 165 to 177 µg/m³, while same on Deepawali day it has ranged between 200 to 245 µg/m³. The maximum PM₁₀ value of 245 µg/m³ was reported at Near Hotel Fortune Blue, Piprali Road on Deepawali Day.

On Pre-Deepawali Day and on Deepawali, in comparison to 2016, the concentration of PM₁₀ has increased while the concentration of SO₂ and NO₂ have decreased at Regional Office, RSPCB, Sikar;

Ambient Air Quality monitoring levels observed near Hotel Fortune Blue, Piprali Road cannot be compared with 2016 since this station was not monitored in 2016.

On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has increased at the monitoring location while on Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at the monitoring location.

On Pre-Deepawali Day and on Deepawali, in comparison to 2016, the concentration of Leq dB(A) during night time have decreased at the monitoring location.

Bhiwadi:

In Bhiwadi city, both Noise level monitoring as well as ambient air quality monitoring were carried out at three locations.

On Pre-Deepawali Day, PM₁₀ level has ranged between 259 to 376 µg/m³, while same on Deepawali day it has ranged between 350 to 404 µg/m³. The maximum PM₁₀ value of 404 µg/m³ was reported at Uttam Strips on Deepawali Day.

Ambient Air Quality monitoring levels observed at the monitoring locations cannot be compared with 2016 since these station were not monitored in 2016.



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On Pre-Deepawali Day and on Deepawali, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at the monitoring location. On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during night time has increased at the monitoring location while and on Deepawali, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at the monitoring location.

Alwar:

In Alwar city, both Noise level monitoring as well as ambient air quality monitoring were carried out at three locations.

On Pre-Deepawali Day, PM₁₀ level has ranged between 95 to 118 µg/m³, while same on Deepawali day it has ranged between 134 to 278 µg/m³. The maximum PM₁₀ value of 278 µg/m³ was reported at RIICO Pump House on Deepawali Day.

On Pre-Deepawali Day, in comparison to 2016, the concentration of PM₁₀ and NO₂ has decreased at all monitoring locations; the concentration of SO₂ has increased at all locations except at RIICO Pump House. On Deepawali day, in comparison to 2016, the concentration of PM₁₀ has increased at all monitoring locations except at Gaurav Solvex; the concentration of SO₂ has increased at all locations except at Regional Office, RSPCB Building, Alwar; the concentration of NO₂ has increased at all locations.

On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during day time has increased at the monitoring locations except at General Hospital while on Deepawali day, the concentration of Leq dB(A) during day time has decreased at the monitoring locations except at Kala Kuan .

On Pre-Deepawali Day, in comparison to 2016, the concentration of Leq dB(A) during night time has increased at the monitoring locations except at Hope Circus while and on Deepawali, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at the monitoring locations except at General Hospital.



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Bharatpur:

In Bharatpur city, both Noise level monitoring was carried out at one location and ambient air quality monitoring was carried out at three locations.

On Pre-Deepawali Day, PM₁₀ level has ranged between 145 to 234 µg/m³, while same on Deepawali day it has ranged between 203 to 305 µg/m³. The maximum PM₁₀ value of 305 µg/m³ was reported at Khadi Gramodyog Samiti on Deepawali Day.

Both Ambient Air Quality and Noise monitoring levels observed at the monitoring locations cannot be compared with 2016 since these station were not monitored in 2016.

Chittorgarh:

In Chittorgarh city, Noise level monitoring was carried out at two locations.

In comparison to 2016, on Pre-Deepawali Day, the concentration of Leq dB(A) during day time has decreased at all the monitoring locations while on Deepawali day, in comparison to 2016, the concentration of Leq dB(A) during day time has decreased at Public Park and increased near Home Guard Office, Kumbha Nagar.

On Pre-Deepawali Day, in comparison to 2016 the concentration of Leq dB(A) during night time has decreased at Public Park and increased near Home Guard Office, Kumbha Nagar. while on Deepawali day, in comparison to 2016, the concentration of Leq dB(A) during night time has decreased at all the monitoring locations while on Deepawali day.

Balotra:

In Balotra city, Noise level monitoring was carried out at one location at Maheshwari Bhawan, Near II nd railway crossing result of the monitoring cannot be compared with 2016 since this station was not monitored in 2016.



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CONCLUSION

- ❖ State Board conducted Noise Level Monitoring on auspicious occasion of “Deep Mahotsav- 2017” at 32 locations of 14 (Fourteen) cities of Rajasthan. Results were compared with the results of previous year 2016 monitoring. Decrease in the level of noise level was observed on Normal Day (12/10/2017) during day time (18:00 hr to 22:00 hr) at 10 (Ten) locations while during night time (22:00 hr to 24:00 hr) at 12 (Twelve) locations, similarly on Deepawali day (19/10/2017) decrease in noise level was also observed during day time (18:00 hr to 22:00 hr) at 10 (Ten) locations while during night time (22:00 hr to 24:00 hr) at 16 (Sixteen) locations.
- ❖ State Board has also conducted Ambient Air Quality Monitoring at 38 locations of 08 (Eight) cities of Rajasthan. A decreasing trend in the level for parameters monitored SO₂, NO₂ and PM₁₀ in Ambient Air Quality was observed when compared with results of previous year 2016. Decrease in concentration of pollutants was observed on Normal Day from 6:00 AM (12/10/2017) to 6:00 AM (13/10/2017) for SO₂ at 11 (Eleven) locations, for NO₂ at 06 (Six) locations while for PM₁₀ at 15 (Fifteen) locations, similarly on Deepawali day from 6:00 AM (19/10/2017) to 6:00 AM (20/10/2017) decrease in level for SO₂ at 11 (Eleven) locations, for NO₂ at 13 (Thirteen) locations while for PM₁₀ at 11 (Eleven) locations was observed.

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Annexure A

Ambient Air Quality Levels in ($\mu\text{g}/\text{m}^3$) on Normal Day 2014 - 2017 in different cities of Rajasthan

S. No	City	Location	SO2				NO2				RSPM (PM10)			
			2014	2015	2016	2017	2014	2015	2016	2017	2014	2015	2016	2017
1	Jaipur	Jhalana (Residential Area)	4.58	6.8	7.35	7.56↑	30.64	34.5	28.68	30.15↑	45	119	150	112↓
2		Regional Officer Jaipur (Residential Area)	5.38	7.94	8.93	8.96↑	36.47	41.72	36.9	38.18↑	147	259	233	217↓
3		Ajmeri Gate (Residential Area)	4.69	7.54	9.56	9.19↓	33.83	36.33	35.47	36.85↑	45	177	167	169↑
4		Chandpole (Residential Area)	4.59	7.68	8.52	7.89↓	32.42	37.51	37.23	38.15↑	47	204	205	175↓
5		V.K.I.A. (Vishwakarma Industrial Area)	5.63	8.1	9.79	9.87↑	36.03	40.35	41.96	39.37↓	116	307	278	275↓
6		M.I.A. (Malviya Industrial Area)	4.41	6.98	7.14	7.22↑	32.56	33.53	32.76	29.03↓	43	117	146	115↓
7		Sitapura (Industrial Area)	—	—	—	7.41	—	—	—	33.83	—	—	—	124
8		Baes Godam (Industrial Area)	—	—	—	8.4	—	—	—	37.29	—	—	—	175
9		Mansarovar (Residential Area)	—	—	—	7.36	—	—	—	28.59	—	—	—	120
10	Alwar	Regional Office, RSPCB Building, Alwar	10.03	7.3	6.06	6.1↑	24.95	26.8	31.50	31.61↑	230	165	138	95↓
11		Gaurav Solvex, Alwar	—	7.90	8.18	8.58↑	—	30.30	34.75	36.2↑	—	202	157	118↓
12		RIICO Pump House, Alwar	—	7.5	9.06	8.6↓	—	31.4	33.35	35.55↑	—	212	167	98↓
13	Jodhpur	District Industrial Corporation	5.17	23.1	9.90	6.33↓	26.15	23.10	16.06	33.53↑	107	117	182	179↓
14		Housing Board	5.85	20.1	9.60	5.13↓	23.28	20.10	18.08	23.08↑	70	149	142	255↑
15		Mahamandir Police Station	5.08	18.7	9.30	5.7↓	24.94	18.66	19.15	22.5↑	95	136	108	134↑
16		Regional Office, RSPCB, Jodhpur	5.6	18.5	8.10	11.48↑	21.07	18.48	22.35	30.82↑	129	221	174	163↓
17		Shastri Nagar Police Station	6.63	19.7	7.20	5.15↓	35.02	19.65	24.87	24.83↓	150	148	179	220↑
18		Sojati Gate	6.78	29.0	5.25	7.13↑	26.16	29.04	29.26	29.58↑	206	240	154	183↑
19		Sangaria Police Sub Station	—	—	—	8.13	—	—	—	17.35	—	—	—	311
20		Kudi Bhagtasni Police Station	—	—	—	4.76	—	—	—	18.48	—	—	—	305
21		Soor Sagar Police Station	—	—	—	5.41	—	—	—	20.91	—	—	—	180
22	Kota	Krishi Vigyan Kendra, Borkhera	6	6.80	6.10	6.3↑	33.5	31.80	23.50	24.4↑	50	127	278	192↓
23		Municipal Corporation, Rampura	6.4	7.50	7.10	7.5↑	40	39.60	18.70	20.9↑	71	115	273	120↓
24		Regional Office, RSPCB, Kota	6.2	8.30	8.00	8.7↑	34.1	36.80	25.30	22.1↓	86	176	70	162↑
25		Common STP Balita	—	—	7.20	7.4↑	—	—	21.50	21.9↑	—	—	76	124↑
26		Rajasthan Technical University	—	—	8.50	8.6↑	—	—	24.00	23.0↓	—	—	59	54↓
27		Fire Station, S.N. Puram	—	—	8.20	7.8↓	—	—	19.90	21.0↑	—	—	98	90↓
28	Udaipur	Town Hall	6.7	8.1	8.2	6.53↓	35.4	27.8	29.3	42.1↑	75	104	60	108↑
29		Amba Mata, Near Police Chouki	5.6	5.5	5.6	5.5↓	29.2	26.3	27.2	37.7↑	94	100	52	82↑
30		Regional Office, RSPCB, Udaipur	7	6.4	6.4	6.6↑	34.8	34.8	35.5	37.8↑	243	266	263	183↓
31	Sikar	Regional Office, RSPCB, Sikar	—	—	5.87	3.27↓	—	—	22.48	21.83↓	—	—	129	165↑
32		Near Hotel Fortune Blue, Piprali Road, Sikar	—	—	—	3.81	—	—	—	22.97	—	—	—	177
33	Bhiwadi	RO Building, Bhiwadi	—	7.4	—	12.38	—	31.7	—	28.4	—	197	—	376
34		UIT Guest House, Bhiwadi	—	7.6	—	11.67	—	31.7	—	28.88	—	248	—	307
35		Uttam Strips Bhiwadi	—	—	—	12.56	—	—	—	30.35	—	—	—	259
36	Bharatpur	Regional Office, RSPCB Building, Bharatpur	—	—	—	6.5	—	—	—	20.3	—	—	—	145
37		RIICO Office Building, Bharatpur	—	—	—	8.3	—	—	—	25.8	—	—	—	204
38		Khadi Gramodyog Samiti, Bharatpur	—	—	—	7.2	—	—	—	28.0	—	—	—	234
STANDARDS			80	80	80	80	80	80	80	80	100	100	100	100

Ambient Air Quality Levels in ($\mu\text{g}/\text{m}^3$) on Deepawali Day 2014 - 2017 in different cities of Rajasthan

S. No	City	Location	SO2				NO2				RSPM (PM10)			
			2014	2015	2016	2017	2014	2015	2016	2017	2014	2015	2016	2017
1	Jaipur	Jhalana (Residential Area)	8.19	9.89	9.7	9.59 ↓	48.1	54.2	45.72	44.93 ↓	231	330	265	245 ↓
2		Regional Officer Jaipur (Residential Area)	12.45	13.02	12.67	13.61 ↑	53.01	62.44	51.87	53.18 ↑	359	446	351	331 ↓
3		Ajmeri Gate (Residential Area)	10.35	11.13	11.56	10.51 ↓	52.04	53.88	52.95	53.8 ↑	280	326	345	324 ↓
4		Chandpole (Residential Area)	11.82	12.03	12.57	13.98 ↑	61.72	63.89	61.29	60.88 ↓	399	411	442	483 ↑
5		V.K.I.A. (Vishwakarma Industrial Area)	11.95	12.5	13.02	13.59 ↑	62.44	63.62	63.29	64.49 ↑	374	436	457	496 ↑
6		M.I.A. (Malviya Industrial Area)	9.24	9.84	10.71	11.1 ↑	51.41	53.09	51.8	52.45 ↑	126	219	255	270 ↑
7		Sitapura (Industrial Area)	—	—	—	12.21	—	—	—	50.51 ↑	—	—	—	290 ↑
8		Baes Godam (Industrial Area)	—	—	—	10.34	—	—	—	44.81 ↑	—	—	—	232 ↑
9		Mansarovar (Residential Area)	—	—	—	12.44	—	—	—	43.23 ↑	—	—	—	222 ↑
10	Alwar	Regional Office, RSPCB Building, Alwar	12.32	7.4	8.18	7.85 ↓	26.86	29.9	32.33	33.63 ↑	354	143	155	158 ↑
11		Gaurav Solvex, Alwar	—	6.80	8.38	8.76 ↑	—	28.70	31.85	35.18 ↑	—	251	162	134 ↓
12		RIICO Pump House, Alwar	—	8.2	8.50	9.35 ↑	—	34.5	32.80	38.88 ↑	—	159	165	278 ↑
13	Jodhpur	District Industrial Corporation	11.58	31.4	14.70	12.23 ↓	31.22	31.38	36.20	24.33 ↓	237	149	270	616 ↑
14		Housing Board	17.48	35.0	16.70	15.67 ↓	29.8	34.97	33.10	29.12 ↓	316	185	234	731 ↑
15		Mahamandir Police Station	10.45	40.3	17.40	9.17 ↓	37.75	40.28	30.10	24.9 ↓	288	159	262	403 ↑
16		Regional Office, RSPCB, Jodhpur	10.3	34.0	26.10	24.52 ↓	28.93	34.03	38.50	22.2 ↓	154	185	257	362 ↑
17		Shastri Nagar Police Station	17.18	40.1	21.50	25.73 ↑	38.87	40.07	41.00	31.5 ↓	360	203	298	588 ↑
18		Sojati Gate	27.5	47.7	18.80	38.3 ↑	35.58	47.74	40.20	46.2 ↑	379	179	337	634 ↑
19		Sangaria Police Sub Station	—	—	—	22.86	—	—	—	30.7	—	—	—	573
20		Kudi Bhagtasni Police Station	—	—	—	41.72	—	—	—	25.28	—	—	—	734
21		Soor Sagar Police Station	—	—	—	10.28	—	—	—	23.83	—	—	—	360
22	Kota	Krishi Vigyan Kendra, Borkhera	7.4	8.50	7.00	7.1 ↑	36.2	46.00	38.20	40.5 ↑	230	180	306	199 ↓
23		Municipal Corporation, Rampura	9.4	8.80	6.80	8.3 ↑	41.2	52.20	42.50	38.6 ↓	288	293	328	222 ↓
24		Regional Office, RSPCB, Kota	9.2	8.70	7.20	7.8 ↑	43.8	44.20	46.10	43.6 ↓	178	223	214	182 ↓
25		Common STP Balita	—	—	6.20	6.8 ↑	—	—	32.40	37.7 ↑	—	—	293	207 ↓
26		Rajasthan Technical University	—	—	5.70	6 ↑	—	—	30.60	29.8 ↓	—	—	131	167 ↑
27		Fire Station, S.N. Puram	—	—	6.00	6.8 ↑	—	—	32.40	33.8 ↑	—	—	293	144 ↓
28	Udaipur	Town Hall	8.6	11.1	11.0	9.53 ↓	38.8	43.5	44.7	53.9 ↑	248	273	205	166 ↓
29		Amba Mata, Near Police Chouki	8.5	9.0	9.2	5.73 ↓	39.1	47.9	52.5	42.4 ↓	140	204	143	183 ↑
30		Regional Office, RSPCB, Udaipur	7.8	11.5	12.5	6.86 ↓	36.7	41.1	42.1	38.5 ↓	236	336	229	202 ↓
31	Sikar	Regional Office, RSPCB, Sikar	—	—	8.23	5.74 ↓	—	—	30.02	28.3 ↓	—	—	184	200 ↑
32		Near Hotel Fortune Blue, Piprali Road, Sikar	—	—	—	6.83	—	—	—	30.6	—	—	—	245
33	Bhiwadi	RO Building, Bhiwadi	—	7.5	—	14.35	—	31.5	—	29.13	—	284	—	350
34		UIT Guest House, Bhiwadi	—	9.4	—	12.85	—	31	—	28.91	—	—	—	404
35		Uttam Strips Bhiwadi	—	—	—	14.48	—	—	—	31.21	—	—	—	—
36	Bharatpur	Regional Office, RSPCB Building, Bharatpur	—	—	—	7.1	—	—	—	24.5	—	—	—	276
37		RIICO Office Building, Bharatpur	—	—	—	7.1	—	—	—	23.0	—	—	—	203
38		Khadi Gramodyog Samiti, Bharatpur	—	—	—	8.0	—	—	—	30.0	—	—	—	305
STANDARDS			80	80	80	80	80	80	80	80	100	100	100	100

Annexure C

**Noise levels in Leq dB(A) on Normal Day during Day Time from
2014 - 2017 in different cities of Rajasthan**

City Name	Name of Monitoring location	2014	2015	2016	2017
Jaipur	Gandhi Nagar (Residential)	69.8	70.7	59.7	59.7
	Jawahar Nagar (Residential)	63.9	56.3	60.8	68.8 ↑
	Raja Park (Commercial)	76.6	75.6	67.1	68.0 ↑
	Choti Chaupar (Commercial)	80.6	70.5	—	—
	Mansarovar (Commercial)	—	—	71.4	64.9 ↓
	SDM Hospital (Silence)	76.7	72.1	70.2	80.8 ↑
	Civil Lines (Silence)	64.3	63.3	63.1	65.7 ↑
Ajmer	Kutchery Road, Ajmer (Residential Zone)	—	—	62.2	63.6 ↑
Bhilwara	Near Regional Office Area, Bhilwara (Residential)	—	68.0	52.0	—
	Shastri Nagar, Bhiwara (Residential)	56.5	—	—	—
	Near C-209, Azad Nagar, Bhilwara (Residential)	—	—	—	67.0
	Near Kumbha Circle, Azad Nagar, Bhilwara (Commercial Zonel)	—	—	69.4	67.3 ↓
Pali	Near M/s Maharaja Shree Umed Mills, Pali (Residential)	65.4	51.6	71.6	63.9 ↓
	Surajpol, Near Townhall, Pali (Commercial)	—	—	69.7	69.7
	Govt. Bangur Hospital, Pali (Sensitive)	—	—	63.8	48.7 ↓
Bikaner	Junagarh, Bikaner (Commercial)	78.8	74.8	75.6	74.6 ↓
Jodhpur	Mahamandir, Jodhpur (Residential cum Commercial)	73.4	64.8	70.4	73.6 ↑
	Shastri Nagar Police Station, Jodhpur (Residential cum Commercial)	64.0	69.1	65.0	69.4 ↑
Kota	M.B.S. Hospital, Kota (Silence)	53.3	70.8	61.4	66.3 ↑
	Dadawada (Residential)	60.9	—	47.9	57.4 ↑
	Gumanpura (Commercial)	—	—	67.1	67.2 ↑
Udaipur	Near Suraj Pole Gate, Udaipur (Commercial)	66.9	76.9	75.1	77.8 ↑
	M.B. Hospital, Udaipur (Silence)	60.5	58.2	63.6	69.7 ↑
	Amba Mata Scheme, Udaipur (Residential)	67.2	63.4	72.4	66.6 ↓
Alwar	Kala Kuan, Alwar (Residential)	67.3	63.6	59.4	66.2 ↑
	General Hospital, Alwar (Sensitive Zone)	—	—	62.2	57.6 ↓
	Hope Circus, Alwar (Commercial)	—	—	66.4	68.1 ↑
Bhiwadi	Housing Board Colony, Bhiwadi (Residential)	61.6	75.7	55.7	—
	St. Xavier School, Bhiwadi (Silent)	—	—	62.1	—
	Ashiana Garden Society, Bhiwadi (Residential)	—	—	—	58.2
	Star Hospital, Bhiwadi (Silent)	—	—	—	71.4
	Central Market, Bhiwadi (Commercial)	—	—	74.2	71.6 ↓
Sikar	Shivsinghpura Housing Board, Nawalgarh Road, Sikar (Residential Zone)	—	—	59.8	62.6 ↑
Chittorgarh	Public Park, Chittorgarh (Commercial)	—	—	70.2	66.5 ↓
	Near Home Guard Office, Kumbha Nagar, Chittorgarh (Residential)	—	—	73.9	67.3 ↓
Bharatpur	Laxman Mandir Chowk, Bharatpur	—	—	—	63.1
Balotra	Maheshwari Bhawan, Near IInd railway Crossing, Balotra	—	—	—	56.5

Noise level Standards in Leq dB(A)

Category of Area / Zone	Day	Night
Silence	50	40
Residential	55	45
Commercial	65	55

**Noise levels in Leq dB(A) on Deepawali Day during Day Time
2014 - 2017 in different cities of Rajasthan**

City Name	Name of Monitoring location	2014	2015	2016	2017
Jaipur	Gandhi Nagar (Residential)	73.3	76.3	80.1	71.2 ↓
	Jawahar Nagar (Residential)	67.0	80.9	89.3	74.5 ↓
	Raja Park (Commercial)	83.1	80.6	75.3	73.3 ↓
	Choti Chaupar (Commercial)	83.9	77.1	—	—
	Mansarovar (Commercial)	—	—	74.2	78.8 ↑
	SDM Hospital (Silence)	73.7	75.5	71.8	73.2 ↑
	Civil Lines (Silence)	70.1	68.6	68.7	71.9 ↑
Ajmer	Kutchery Road, Ajmer (Residential Zone)	—	—	73.0	75.4 ↑
Bhilwara	Near Regional Office Area, Bhilwara (Residential)	—	71.3	78.2	—
	Shastri Nagar, Bhiwara (Residential)	65.3	—	—	—
	Near C-209, Azad Nagar, Bhilwara (Residential)	—	—	—	84.4
	Near Kumbha Circle, Azad Nagar, Bhilwara (Commercial Zonel)	—	—	75.6	83.8 ↑
Pali	Near M/s Maharaja Shree Umed Mills, Pali (Residential)	80.0	67.5	90.0	74.4 ↓
	Surajpol, Near Townhall, Pali (Commercial)	—	—	74.3	88.4 ↑
	Govt. Bangur Hospital, Pali (Sensitive)	—	—	75.6	66.6
Bikaner	Junagarh, Bikaner (Commercial)	76.2	78.9	77.5	78.4 ↑
Jodhpur	Mahamandir, Jodhpur (Residential cum Commercial)	77.7	90.4	79.7	78.2 ↓
	Shastri Nagar Police Station, Jodhpur (Residential cum Commercial)	71.4	76.4	87.4	71.0 ↓
Kota	M.B.S. Hospital, Kota (Silence)	64.1	73.1	62.8	64.5 ↑
	Dadawada (Residential)	65.2	—	31.5	67.7 ↑
	Gumanpura (Commercial)	—	—	86.8	79.3 ↓
Udaipur	Near Suraj Pole Gate, Udaipur (Commercial)	82.6	80.1	87.0	87.9 ↑
	M.B. Hospital, Udaipur (Silence)	64.0	67.0	73.9	78.5 ↑
	Amba Mata Scheme, Udaipur (Residential)	74.0	71.9	72.6	72.1 ↓
Alwar	Kala Kuan, Alwar (Residential)	80.8	76.1	76.9	79.9 ↑
	General Hospital, Alwar (Sensitive Zone)	—	—	79.2	76.3 ↓
	Hope Circus, Alwar (Commercial)	—	—	82.6	79.9 ↓
Bhiwadi	Housing Board Colony, Bhiwadi (Residential)	79.3	74.2	74.8	—
	St. Xavier School, Bhiwadi (Silent)	—	—	70.6	—
	Ashiana Garden Society, Bhiwadi (Residential)	—	—	—	81.1
	Star Hospital, Bhiwadi (Silent)	—	—	—	78.2
	Central Market, Bhiwadi (Commercial)	—	—	77.7	81.4 ↑
Sikar	Shivsinghpura Housing Board, Nawalgarh Road, Sikar (Residential Zone)	—	—	69.7	68.6 ↓
Chittorgarh	Public Park, Chittorgarh (Commercial)	—	—	76.9	75.7 ↓
	Near Home Guard Office, Kumbha Nagar, Chittorgarh (Residential)	—	—	79.1	84.6 ↑
Bharatpur	Laxman Mandir Chowk, Bharatpur	—	—	—	63.1
Balotra	Maheshwari Bhawan, Near IInd railway Crossing, Balotra	—	—	—	72.8

Noise level Standards in Leq dB(A)

Category of Area / Zone	Day	Night
Silence	50	40
Residential	55	45
Commercial	65	55

**Noise levels in Leq dB(A) on Normal Day during Night Time from
2014 - 2017 in different cities of Rajasthan**

City Name	Name of Monitoring location	2014	2015	2016	2017
Jaipur	Gandhi Nagar (Residential)	58.4	59.5	61.2	54.4 ↓
	Jawahar Nagar (Residential)	53.2	54.2	55.6	56.2 ↑
	Raja Park (Commercial)	57.9	59.4	57.0	62.8 ↑
	Choti Chaupar (Commercial)	67.2	60.5	—	—
	Mansarovar (Commercial)	—	—	67.4	61.2 ↓
	SDM Hospital (Silence)	65.4	65.2	64.1	70.3 ↑
	Civil Lines (Silence)	62.4	59.7	59.7	69.7 ↑
Ajmer	Kutchery Road, Ajmer (Residential Zone)	—	—	56.9	59.5 ↑
Bhilwara	Near Regional Office Area, Bhilwara (Residential)	—	44.8	44.9	—
	Shastri Nagar, Bhiwara (Residential)	50.4	—	—	—
	Near C-209, Azad Nagar, Bhilwara (Residential)	—	—	—	64.8
	Near Kumbha Circle, Azad Nagar, Bhilwara (Commercial)	—	—	57.8	62.2 ↑
Pali	Near M/s Maharaja Shree Umed Mills, Pali (Residential)	52.8	55.7	53.5	56.2 ↑
	Surajpol, Near Townhall, Pali (Commercial)	—	—	58.8	64.1 ↑
	Govt. Bangur Hospital, Pali (Sensitive)	—	—	53.4	45.8 ↓
Bikaner	Junagarh, Bikaner (Commercial)	71.6	73.6	68.8	68.3 ↓
Jodhpur	Mahamandir, Jodhpur (Residential cum Commercial)	72.1	59.1	62.6	61.4 ↓
	Shastri Nagar Police Station, Jodhpur (Residential cum Commercial)	66.4	64.1	65.4	58.2 ↓
Kota	M.B.S. Hospital, Kota (Silence)	51.1	44.8	61.0	69.8 ↑
	Dadawada (Residential)	54.9	—	50.7	45.4 ↓
	Gumanpura (Commercial)	—	—	63.0	64.3 ↑
Udaipur	Near Suraj Pole Gate, Udaipur (Commercial)	68.4	72.7	64.0	73.3 ↑
	M.B. Hospital, Udaipur (Silence)	52.9	58.7	65.3	68.1 ↑
	Amba Mata Scheme, Udaipur (Residential)	68.0	63.5	71.3	59.1 ↓
Alwar	Kala Kuan, Alwar (Residential)	47.2	55.7	51.4	53.3 ↑
	General Hospital, Alwar (Sensitive Zone)	—	—	54.2	55.6 ↑
	Hope Circus, Alwar (Commercial)	—	—	59.4	57.9 ↓
Bhiwadi	Housing Board Colony, Bhiwadi (Residential)	59.3	60.3	48.1	—
	St. Xavier School, Bhiwadi (Silent)	—	—	59.8	—
	Ashiana Garden Society, Bhiwadi (Residential)	—	—	—	49.8
	Star Hospital, Bhiwadi (Silent)	—	—	—	68.3
	Central Market, Bhiwadi (Commercial)	—	—	71.5	68.7 ↓
Sikar	Shivsinghpura Housing Board, Nawalgarh Road, Sikar (Residential Zone)	—	—	54.0	50.9 ↓
Chittorgarh	Public Park, Chittorgarh (Commercial)	—	—	64.7	62.9 ↓
	Near Home Guard Office, Kumbha Nagar, Chittorgarh (Residential)	—	—	55.1	61.6 ↑
Bharatpur	Laxman Mandir Chowk, Bharatpur	—	—	—	61.8
Balotra	Maheshwari Bhawan, Near IInd railway Crossing, Balotra	—	—	—	42.0

Noise level Standards in Leq dB(A)

Category of Area / Zone	Day	Night
Silence	50	40
Residential	55	45
Commercial	65	55

**Noise levels in Leq dB(A) on Deepawali Day during Night Time from
2014 - 2017 in different cities of Rajasthan**

City Name	Name of Monitoring location	2014	2015	2016	2017
Jaipur	Gandhi Nagar (Residential)	76.2	77.2	77.1	73.9 ↓
	Jawahar Nagar (Residential)	74.9	80.9	82.8	82.5 ↓
	Raja Park (Commercial)	77.5	77.9	65.6	77.4 ↑
	Choti Chaupar (Commercial)	79.9	73.6	—	—
	Mansarovar (Commercial)	—	—	65.0	79.1 ↑
	SDM Hospital (Silence)	72.6	73.1	73.0	84.7 ↑
	Civil Lines (Silence)	73.7	66.4	66.1	77.7 ↑
Ajmer	Kutchery Road, Ajmer (Residential Zone)	—	—	72.3	75.7 ↑
Bhilwara	Near Regional Office Area, Bhilwara (Residential)	—	72.0	77.6	—
	Shastri Nagar, Bhiwara (Residential)	66.4	—	—	—
	Near C-209, Azad Nagar, Bhilwara (Residential)	—	—	—	89.8
	Near Kumbha Circle, Azad Nagar, Bhilwara (Commercial Zonel)	—	—	70.0	83.6 ↑
Pali	Near M/s Maharaja Shree Umed Mills, Pali (Residential)	76.6	62.2	93.7	81.6 ↓
	Surajpol, Near Townhall, Pali (Commercial)	—	—	60.4	70.3 ↑
	Govt. Bangur Hospital, Pali (Sensitive)	—	—	70.5	54.4 ↓
Bikaner	Junagarh, Bikaner (Commercial)	76.7	82.0	81.1	85.4 ↑
Jodhpur	Mahamandir, Jodhpur (Residential cum Commercial)	77.4	76.5	86.8	82.1 ↓
	Shastri Nagar Police Station, Jodhpur (Residential cum Commercial)	73.7	75.7	83.6	75.0 ↓
Kota	M.B.S. Hospital, Kota (Silence)	60.4	55.4	67.0	65.8 ↓
	Dadawada (Residential)	64.7	—	34.5	72.0 ↑
	Gumanpura (Commercial)	—	—	82.8	75.5 ↓
Udaipur	Near Suraj Pole Gate, Udaipur (Commercial)	86.8	77.3	85.9	83.5 ↓
	M.B. Hospital, Udaipur (Silence)	67.8	75.1	65.0	67.9 ↑
	Amba Mata Scheme, Udaipur (Residential)	83.0	90.5	79.0	75.0 ↓
Alwar	Kala Kuan, Alwar (Residential)	84.2	75.3	71.1	66.0 ↓
	General Hospital, Alwar (Sensitive Zone)	—	—	65.7	69.6 ↑
	Hope Circus, Alwar (Commercial)	—	—	97.1	84.1 ↓
Bhiwadi	Housing Board Colony, Bhiwadi (Residential)	76.1	65.8	60.0	—
	St. Xavier School, Bhiwadi (Silent)	—	—	65.7	—
	Ashiana Garden Society, Bhiwadi (Residential)	—	—	—	73.5
	Star Hospital, Bhiwadi (Silent)	—	—	—	69.3
	Central Market, Bhiwadi (Commercial)	—	—	80.0	71.5 ↓
Sikar	Shivsinghpura Housing Board, Nawalgarh Road, Sikar (Residential Zone)	—	—	61.5	61.5 ↓
Chittorgarh	Public Park, Chittorgarh (Commercial)	—	—	80.5	79.2 ↓
	Near Home Guard Office, Kumbha Nagar, Chittorgarh (Residential)	—	—	82.2	82.1 ↓
Bharatpur	Laxman Mandir Chowk, Bharatpur	—	—	—	73.0
Balotra	Maheshwari Bhawan, Near IInd railway Crossing, Balotra	—	—	—	53.4

Noise level Standards in Leq dB(A)

Category of Area / Zone	Day	Night
Silence	50	40
Residential	55	45
Commercial	65	55