

# DEEPAWALI FESTIVAL REPORT

(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 zeal and enthusiasm throughout India. Bursting of firecrackers and illumination of sources is seen as a symbol of joy and prosperity. Noise and Air pollution due to these fire crackers is well known. It 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 **21.10.2019** (**Pre-Deepawali Day**) & **27.10.2019** (**On Deepawali**) at <u>30</u> 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 21.10.2019 (Pre-Deepawali Day) from 06:00 AM 21.10.2019 to 06:00 AM 22.10.2019 as well as on 27.10.2019 (Deepawali day) from 06:00 AM 27.10.2019 to 06:00 AM 28.10.2019 at <u>34</u> different locations in eight cities namely; Alwar, Bhiwadi, Bharatpur, Chittorgarh, Jaipur, Jodhpur, Kota 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 year have also been incorporated so as to compare with data of previous years.

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

Pawan Kumar Goyal Chairperson

# **Contributions:**

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# PART-I

REPORT ON

NOISE LEVEL MONITORING

ON THE OCASSION OF

DEEPAWALI FESTIVAL, 2019



In order to assess the impact of bursting of fire crackers and other predominating noise polluting activities on the occasion of Deepawali, Rajasthan State Pollution Control Board undertook Noise Level Monitoring at several locations in the state. With a view to maintain uniformity in monitoring, the entire Noise Level Monitoring was conducted as per the CPCB protocol.

Noise Level Monitoring was conducted on **21.10.2019** (**Pre-Deepawali Day**) & **27.10.2019** (**On Deepawali Day**) at **30** different locations in fourteen cities viz. Alwar, Balotra, Bharatpur, Bhilwara, Bhiwadi, Bikaner, Chittorgarh, Jaipur, Jodhpur, Ajmer, Kota, Pali, Sikar and Udaipur. The Noise level monitoring was conducted during 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. Residential, Commercial, and Silence zones were selected in respect of Noise Standards prescribed under the provisions of Noise Pollution (Regulation & Control) Rules, 2000. The monitoring network consisted of a total of 30 noise monitoring locations across fourteen cities of Rajasthan.

	Table 1: Noise Level Monitoring locations						
S. No.	Name of the city	No. Monitoring locations					
1	Alwar	2					
2	Ajmer	1					
3	Balotra	1					
4	Bharatpur	1					
5	Bhilwara	2					
6	Bhiwadi	2					
7	Bikaner	1					
8	Chittorgarh	2					
9	Jaipur	6					
10	Jodhpur	2					
11	Kota	3					
12	Pali	3					
13	Sikar	1					
14	Udaipur	3					
	Total	30					



Table 2: Noise Level in Lmin, Lmax and Leq dB(A) Pre-Deepawali and on Deepawali Day (21.10.2019 & 27.10.2019)

(21.10.2019 & 27.10.2019)										
	Name of the				Deepawa		-			
City	Name of the	Time	Day/ Night		21.10.201			27.10.201		
	Station			Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)	
Jaipur	Gandhi	18:00 to 19:00 Hr		50.7	86.5	60.1	45.3	115.4	81.2	
0 m2 p m2	Nagar	19:00 to 20:00 Hr	ime	49.5	76.1	56.2	40.2	102.5	69.2	
	(Residential)	20:00 to 21:00 Hr	Day Time	48.1	87.4	56.6	50.5	109.1	76.8	
		21:00 to 22:00 Hr	Ω̈́	47.3	84.9	56.1	47.9	116.3	82.0	
		22:00 to 23:00 Hr	e H	46.4	83.2	54.1	54.1	117.2	100.3	
		23:00 to 24:00 Hr	Night Time	41.9	79.1	52.8	37.5	101.4	71.7	
Jaipur	Jawahar	18:00 to 19:00 Hr		47.4	73.3	56.8	46.0	91.0	65.2	
	Nagar	19:00 to 20:00 Hr	Day Time	49.1	85.2	57.8	47.8	95.0	72.5	
	(Residential)	20:00 to 21:00 Hr	ay T	47.5	73.4	55.7	50.9	96.3	74.4	
		21:00 to 22:00 Hr	Ā	46.5	103.5	68.9	56.3	99.3	79.7	
		22:00 to 23:00 Hr	th:	44.2	75.1	54.3	59.5	99.5	83.5	
		23:00 to 24:00 Hr	Night Time	43.1	88.1	56.4	57.9	105.9	84.9	
Jaipur	Raja Park	18:00 to 19:00 Hr	ပ	51.7	93.2	65.7	55.4	96.0	80.8	
	(Commercial)	19:00 to 20:00 Hr	Day Time	51.5	81.0	65.3	58.1	96.0	80.8	
		20:00 to 21:00 Hr	ay	50.2	90.1	60.7	62.7	93.6	82.1	
		21:00 to 22:00 Hr	Α	49.8	91.1	63.3	56.5	99.8	78.5	
		22:00 to 23:00 Hr	Night Time	55.5	74.6	66.7	65.3	99.4	79.7	
		23:00 to 24:00 Hr	ig if	31.9	70.0	68.8	40.7	99.2	70.1	
Jaipur	Mansarovar	18:00 to 19:00 Hr	e	39.0	90.4	56.4	37.9	109.1	90.0	
	(Commercial)	19:00 to 20:00 Hr	Day Time	41.4	81.8	59.1	44.5	108.5	74.2	
		20:00 to 21:00 Hr	)ay	40.3	78.6	55.6	46.9	110.9	81.2	
		21:00 to 22:00 Hr		39.8	94.9	58.5	42.4	112.9	78.6	
		22:00 to 23:00 Hr	Night Time	38.3	92.5	57.7	37.3	105.7	74.1	
		23:00 to 24:00 Hr	ZÏ	37.4	75.7	47.0	34.7	101.3	72.3	
Jaipur	SDM	18:00 to 19:00 Hr	Je Je	55.9	89.7	67.5	51.4	92.7	63.8	
	Hospital (Silence)	19:00 to 20:00 Hr	Day Time	54.9	97.3	66.2	51.3	95.2	65.2	
	(Bilefiee)	20:00 to 21:00 Hr	Day	53.6	89.3	65.3	52.1	107.4	71.3	
		21:00 to 22:00 Hr		52.3	97.9	63.0	54.9	103.1	73.6	
		22:00 to 23:00 Hr	Night Time	51.7	93.1	61.6	54.6	100.5	75.4	
		23:00 to 24:00 Hr	ΞΞ	49.7	88.5	60.8	49.1	103.6	72.6	
Jaipur	Civil Lines	18:00 to 19:00 Hr	ne	45.9	102.3	70.9	44.2	93.1	64.7	
	(Silence)	19:00 to 20:00 Hr	Day Time	49.6	92.7	64.9	46.0	98.9	65.6	
		20:00 to 21:00 Hr	Oay	48.8	93.1	66.9	49.0	106.2	73.4	
		21:00 to 22:00 Hr		47.0	95.8	65.2	52.5	94.7	70.9	
		22:00 to 23:00 Hr	Night Time	43.4	89.2	63.5	51.2	101.2	72.3	
		23:00 to 24:00 Hr	ZF	28.2	92.6	61.6	46.8	96.6	70.0	



			<del>-</del>	Pre-I	Deepawal	li Day	Or	n Deepaw	ali
City	Name of the	Time	Day/ Night	21.10.2019			2	27.10.201	9
Station	1	Day/	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)	
Ajmer	Kutchery Road,	18:00 to 19:00 Hr	o,	34.8	101.5	75.1	57.1	93.3	69.2
	Ajmer (Residental	19:00 to 20:00 Hr	Lim	48.0	99.8	75.6	55.7	98.0	69.7
	Zone)	20:00 to 21:00 Hr	Day Time	53.8	101.9	75.4	56.3	105.3	72.5
		21:00 to 22:00 Hr	Д	45.1	94.2	71.6	57.1	100.5	75.0
		22:00 to 23:00 Hr	Night Time	34.8	92.2	68.0	59.3	101.9	76.7
		23:00 to 24:00 Hr	ig i	33.1	83.7	48.1	52.9	103.1	76.0
Bhilwara	Near C-209,	18:00 to 19:00 Hr		43.5	97.8	66.4	47.1	126.0	85.4
	Azad Nagar,	19:00 to 20:00 Hr	Day Time	44.2	90.0	64.9	52.5	129.5	91.9
	Bhilwara (Residential)	20:00 to 21:00 Hr	ay	46.2	104.4	70.1	54.1	114.5	80.2
	(Residential)	21:00 to 22:00 Hr		45.7	107.1	74.4	52.6	125.3	89.3
		22:00 to 23:00 Hr	ih ne	37.2	106.5	72.9	47.8	126.1	94.1
		23:00 to 24:00 Hr	Night Time	35.9	80.0	49.2	32.6	126.3	91.5
Bhilwara	Near Kumbha	18:00 to 19:00 Hr		46.3	94.1	68.6	58.3	87.2	67.2
	Circle, Azad	19:00 to 20:00 Hr	Day Time	56.5	82.2	64.9	58.0	88.1	69.9
	Nagar, Bhilwara (Commercial Zonel)	20:00 to 21:00 Hr		52.7	92.3	65.0	59.4	95.4	75.5
		21:00 to 22:00 Hr		49.6	83.9	59.9	60.1	98.6	75.7
	,	22:00 to 23:00 Hr	le ih	47.1	86.3	63.9	58.1	107.0	79.0
		23:00 to 24:00 Hr	Night Time	23.1	95.1	69.6	57.6	106.6	78.4
Pali	Near M/s	18:00 to 19:00 Hr		50.3	103.6	98.1	48.8	97.7	67.7
	Maharaja Shree	19:00 to 20:00 Hr	Day Time	34.4	69.1	60.3	42.7	103.9	71.5
	Umed Mills, Pali (Residential)	20:00 to 21:00 Hr	T Ax	39.3	113.3	73.3	43.2	106.7	70.1
	(Residential)	21:00 to 22:00 Hr	Ã	48.8	104.4	69.2	42.5	82.9	50.1
		22:00 to 23:00 Hr	ht se	40.4	100.9	65.0	42.5	82.9	54.8
		23:00 to 24:00 Hr	Night Time	36.9	97.2	65.9	49.8	92.6	67.4
Pali	Surajpol, Near	18:00 to 19:00 Hr		41.8	103.7	101.1	48.8	104.0	72.0
	Townhall, Pali	19:00 to 20:00 Hr	Day Time	39.4	101.7	66.2	42.5	103.9	72.0
	(Commercial)	20:00 to 21:00 Hr	ay J	49.0	101.7	66.2	44.1	106.7	69.6
		21:00 to 22:00 Hr	Ä	40.8	100.6	65.8	43.9	78.3	50.5
		22:00 to 23:00 Hr	ht se	36.7	96.5	65.4	43.8	89.7	54.3
		23:00 to 24:00 Hr	Night Time	38.5	104.0	68.4	47.6	94.6	67.5
Pali	Govt. Bangur	18:00 to 19:00 Hr		34.5	102.3	70.5	37.5	105.3	72.4
	Hospital, Pali	19:00 to 20:00 Hr	Day Time	23.1	94.6	61.8	28.1	99.6	63.8
	(Sensitive)	20:00 to 21:00 Hr	ay T	31.1	69.4	49.7	36.1	74.4	55.2
		21:00 to 22:00 Hr	Ď	44.2	70.2	59.2	49.2	75.2	62.2
		22:00 to 23:00 Hr	# 0	52.2	50.2	64.1	57.2	85.2	71.2
		23:00 to 24:00 Hr	Night Time	39.6	70.6	60.2	44.6	75.6	60.1



			t l	Pre-I	Deepawa	li Day	Or	n Deepav	vali	
City	Name of the		Vigh	2	21.10.2019			27.10.2019		
	Station	Time	Day/ Night	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)	
Bikaner	Junagarh	18:00 to 19:00 Hr	<b>o</b>	51.1	94.8	73.5	55.9	103.6	77.0	
	(Commercial)	19:00 to 20:00 Hr	Time	60.6	94.3	71.5	60.6	102.3	75.2	
		20:00 to 21:00 Hr	Day 7	59.3	93.2	69.8	60.2	114.0	77.9	
		21:00 to 22:00 Hr		54.8	94.7	70.9	61.2	100.5	78.3	
		22:00 to 23:00 Hr	Night Time	52.3	100.4	70.4	50.8	114.6	82.4	
		23:00 to 24:00 Hr		37.8	94.3	66.6	39.2	118.3	78.6	
Jodhpur	Shashtri	18:00 to 19:00 Hr	ø	59.6	83.2	66.6	58.7	104.3	71.9	
	NagarPolice Station	19:00 to 20:00 Hr	Day Time	59.2	83.3	66.2	57.7	108.5	78.3	
	(Commercial)	20:00 to 21:00 Hr	ay	64.1	87.5	57.8	59.2	109.4	78.8	
	(Commercial)	21:00 to 22:00 Hr		58.0	94.0	64.5	60.6	106.8	77.4	
		22:00 to 23:00 Hr	ght	54.8	82.0	62.4	60.9	110.5	80.8	
		23:00 to 24:00 Hr	Night Time	48.8	78.1	60.0	53.0	110.7	80.1	
Jodhpur	Maha Mandir	18:00 to 19:00 Hr	e e	50.2	103.1	69.2	48.3	111.3	72.0	
	Police Station (Residential)	19:00 to 20:00 Hr	Day Time	49.8	99.6	64.4	48.8	111.6	75.6	
		20:00 to 21:00 Hr		48.6	90.5	61.9	49.3	101.9	71.4	
		21:00 to 22:00 Hr		47.7	92.5	62.0	54.2	118.1	80.9	
		22:00 to 23:00 Hr	Night Time	44.1	87.3	61.5	55.3	117.5	86.1	
		23:00 to 24:00 Hr	ZiZ TiT	44.5	90.5	58.3	52.3	113.0	83.9	
Kota	MBS Hospital	18:00 to 19:00 Hr	e e	47.9	95.0	71.5	46.2	95.4	74.1	
	(Silence)	19:00 to 20:00 Hr	Day Time	46.6	98.6	62.9	45.7	98.6	74.6	
		20:00 to 21:00 Hr	ay '	46.5	90.8	64.8	53.9	102.8	73.6	
		21:00 to 22:00 Hr	Д	52.0	93.2	66.6	54.3	102.7	73.6	
		22:00 to 23:00 Hr	Night Time	50.2	97.2	69.5	55.3	108.9	76.8	
		23:00 to 24:00 Hr	ZiZ TiT	49.8	100.6	72.6	52.0	95.7	72.5	
Kota	Dadawada	18:00 to 19:00 Hr	e	_	_	60.1	_	_	56.3	
	(Residential)	19:00 to 20:00 Hr	Time	_	_	56.1	_	_	59.1	
		20:00 to 21:00 Hr	Day '	_	_	57.6	_	_	64.7	
		21:00 to 22:00 Hr	Д	_	_	54.9	_	_	68.8	
		22:00 to 23:00 Hr	Night Time	_	_	50.3	_	_	69.1	
		23:00 to 24:00 Hr	Zi.T.	_	_	50.8	_	_	68.6	
Kota	Gumanpura	18:00 to 19:00 Hr	ē	51.4	94.4	74.2	51.3	96.4	72.9	
	(Commercial)	19:00 to 20:00 Hr	Day Time	52.8	92.5	70.1	51.5	115.0	81.5	
		20:00 to 21:00 Hr	ay '	48.9	96.2	69.7	51.9	119.4	82.0	
		21:00 to 22:00 Hr	Д	50.3	93.2	67.9	54.8	113.6	80.1	
		22:00 to 23:00 Hr	Night Time	47.5	92.3	65.6	53.0	110.4	81.6	
		23:00 to 24:00 Hr	N. I.I.	44.8	91.2	66.1	47.4	121.3	92.0	



			ıt	Pre-I	Deepawa	li Day	Oı	n Deepav	vali	
<b>~</b> *.	Name of the		igi	2	21.10.2019			27.10.2019		
City	Station	Time	Day/ Night	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)	
Udaipur	Near Suraj	18:00 to 19:00 Hr	v	54.5	87.7	81.2	63.5	102.5	82	
	Pole Gate,	19:00 to 20:00 Hr	Day Time	51.7	98.0	78	78.1	97.5	81.2	
	Udaipur (Commercial)	20:00 to 21:00 Hr	ay [	50.9	97.0	74.4	79.4	101.3	81.6	
	(Commerciar)	21:00 to 22:00 Hr	Ď	49.9	95.6	70.3	77.9	106.8	86	
		22:00 to 23:00 Hr	Night Time	48.0	88.2	68.5	78.0	105.3	84.3	
		23:00 to 24:00 Hr		43.2	78.4	58.4	61.7	102.8	82.6	
Udaipur	M.B.	18:00 to 19:00 Hr	ပ	50.2	86.0	69.8	55.3	68.3	65.4	
	Hospital,	19:00 to 20:00 Hr	Day Time	52	88.2	68.8	46.6	89.6	70.5	
	Udaipur (Silence)	20:00 to 21:00 Hr	ay	49.8	94.2	70	49.2	91.6	71	
	(Bilefiee)	21:00 to 22:00 Hr	О	52.0	88.6	68	51.4	89.3	70	
		22:00 to 23:00 Hr	ght	48.2	84.2	64.0	49.8	88.2	67.7	
		23:00 to 24:00 Hr	Night Time	46	64	50.8	48.4	87.4	67.5	
Udaipur	Amba Mata	18:00 to 19:00 Hr	Day Time	41.3	91.2	60.3	42.6	99.5	73.3	
	Scheme,	19:00 to 20:00 Hr		40.8	75.4	55.3	53.6	105.4	80.4	
	Udaipur (Residential)	20:00 to 21:00 Hr		42.8	80.3	58.3	58.1	105.0	81.1	
		21:00 to 22:00 Hr		51.4	94.4	73.2	58.5	99.5	77.1	
		22:00 to 23:00 Hr	ght ne	50.3	90.4	71.2	57.9	96.4	79.3	
		23:00 to 24:00 Hr	Night Time	49.8	89.9	70.2	52.6	96.9	75.9	
Alwar	Kala Kuan,	18:00 to 19:00 Hr		44.2	100.0	67.7	40.1	95.9	62.3	
	Alwar	19:00 to 20:00 Hr	Day Time	42.3	89.3	63.6	45.1	88.6	61.0	
	(Residential)	20:00 to 21:00 Hr	ay ]	40.5	87.2	52.8	44.0	107.4	73.3	
		21:00 to 22:00 Hr	О	40.1	108.9	68.1	48.3	120.7	91.2	
		22:00 to 23:00 Hr	th ne	42.2	83.0	52.5	51.6	123.9	95.4	
		23:00 to 24:00 Hr	Night Time	33.8	96.3	56.7	47.8	123.7	94.2	
Alwar	General	18:00 to 19:00 Hr		50.4	78.5	61.6	41.0	117.1	75.9	
	Hospital,	19:00 to 20:00 Hr	Day Time	50.7	87.7	61.8	41.4	110.5	74.8	
	Alwar (Sensitive	20:00 to 21:00 Hr	ay	48.8	83.2	60.7	40.7	99.5	64.5	
	Zone)	21:00 to 22:00 Hr	Ω	39.9	92.6	60.3	38.3	92.4	58.3	
		22:00 to 23:00 Hr	ght	27.6	92.6	63.2	36.3	88.2	49.9	
		23:00 to 24:00 Hr	Night Time	24.2	63.5	46.8	35.7	77.9	47.5	
Sikar	Shivsinghpura	18:00 to 19:00 Hr		46.5	90.5	62.8	43.0	102.3	65.3	
	Housing	19:00 to 20:00 Hr	Day Time	44.6	85.4	60.8	44.0	101.9	68.8	
	Board, Nawalgarh	20:00 to 21:00 Hr	ay J	42.8	84.8	58.1	44.0	108.4	75.8	
	Road, Sikar	21:00 to 22:00 Hr	Ω	43.6	84.4	55.9	45.0	103.6	74.0	
	(Residental	22:00 to 23:00 Hr	ght ne	36.2	73.1	59.0	39.5	100.2	68.7	
	Zone)	23:00 to 24:00 Hr	Night Time	32.3	75.4	51.1	34.0	94.8	61.9	



			tht	Pre-I	Deepawa	li Day	Oı	n Deepav	vali
City	Name of the	Time	ig	21.10.2019			27.10.2019		
	Station		Day/ Night	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Bhiwadi	Ashiana	18:00 to 19:00 Hr	e	44.5	92.2	67.0	39.6	107.2	75.1
	Garden Society,	19:00 to 20:00 Hr	Tim	43.8	101.7	61.1	33.2	86.2	56.8
	Bhiwadi	20:00 to 21:00 Hr	Day Time	42.9	86.3	60.6	36.3	119.9	81.0
	(Residential)	21:00 to 22:00 Hr		43.2	87.7	62.0	38.6	119.6	82.7
		22:00 to 23:00 Hr	Night Time	31.3	81.7	51.4	32.3	92.1	56.8
		23:00 to 24:00 Hr	iz iz	29.2	76.0	38.8	40.7	89.8	59.5
Bhiwadi	Star Hospital,	18:00 to 19:00 Hr	le le	33.6	87.9	62.2	50.0	95.6	68.5
	Bhiwadi (Silent)	19:00 to 20:00 Hr	Day Time	49.1	99.8	62.3	54.3	113.8	74.4
	(Silcili)	20:00 to 21:00 Hr	ay	49.2	86.7	59.6	54.1	113.2	75.2
		21:00 to 22:00 Hr		50.2	81.2	58.6	50.2	97.2	73.7
		22:00 to 23:00 Hr	Night Time	46.9	77.8	54.7	46.3	100.9	69.4
		23:00 to 24:00 Hr	Z E	46.5	81.6	54.9	44.0	104.8	69.0
Chittorgarh	Public Park,	18:00 to 19:00 Hr	မ	53.4	80.5	61.9	52.9	92.3	69.4
	Chittorgarh (Commercial)	19:00 to 20:00 Hr	Day Time	52.7	92.6	64.7	57.7	107.5	76.3
		20:00 to 21:00 Hr		50.6	93.7	62.9	65.6	110.5	77.7
		21:00 to 22:00 Hr		48.6	89.4	63.5	66.7	99.1	77.3
		22:00 to 23:00 Hr	Night Time	41.6	81.4	58.6	67.4	103.4	79.3
		23:00 to 24:00 Hr		37.7	95.3	61.9	53.9	111.8	79.2
Chittorgarh	Near Home	18:00 to 19:00 Hr	4)	42.6	88.6	61.5	42.6	95.0	67.1
	Guard Office,	19:00 to 20:00 Hr	Day Time	47.9	75.5	60.9	42.8	107.5	74.4
	Kumbha Nagar,	20:00 to 21:00 Hr	ay J	41.3	97.4	62.9	45.2	116.7	77.2
	Chittorgarh	21:00 to 22:00 Hr	О	38.7	90.2	59.4	46.6	113.0	84.2
	(Residential)	22:00 to 23:00 Hr	ht	39.6	85.6	59	45.4	109.6	81.5
		23:00 to 24:00 Hr	Night Time	36.9	76.6	50.9	41.8	118.9	82.5
Bharatpur	Regional	18:00 to 19:00 Hr		36.3	79.4	57.8	46.3	81.9	62.3
	Office,	19:00 to 20:00 Hr	Time	48.4	80.8	61.1	47.6	91.7	65.7
	RSPCB, Bharatpur	20:00 to 21:00 Hr	Day 1	50.1	82.7	64.6	49.4	93.2	70.2
	(Residential)	21:00 to 22:00 Hr	Ď	42.5	83.5	60.1	51.1	95.1	75.4
	,	22:00 to 23:00 Hr	ht	43.2	83.2	59.5	50.5	97.1	71.6
		23:00 to 24:00 Hr	Night Time	37.8	78.1	55.1	49.3	94.5	65.3
Balotra	Maheshwari	18:00 to 19:00 Hr		45.5	100.2	65.2	41.9	88.1	57.6
	Bhawan, Near IInd railway	19:00 to 20:00 Hr	Time	44.4	90.3	57.2	44.2	109.6	74.2
		20:00 to 21:00 Hr	Day	44.3	83.8	54.1	47.4	102.1	73.3
	Crossing,	21:00 to 22:00 Hr		42.1	87.6	57.2	50.5	108.7	76.9
	Balotra (Commercial)	22:00 to 23:00 Hr	Night Time	41.3	86.9	54.9	45.1	112.8	80.4
	(Commercial)	23:00 to 24:00 Hr	Zi.T.	40.9	73.8	50.1	41.3	105.8	76.4



Standard Limits in dB(A) Leq*						
Category of Area / Zone	Day	Night				
Commercial	65	55				
Residential	55	45				
Silence	50	40				

#### **Interpretation:**

Noise levels in Leq dB(A) on Pre-Deepawali Day and Deepawali day during Day and Night Time from 2014 - 2019 in different cities of Rajasthan have been compiled at **Annexure A**. City—wise detailed observations are as under:

### Jaipur:

In Jaipur city, Noise level monitoring was carried out at six locations, namely, Gandhi Nagar (Residential), Jawahar Nagar (Residential), Raja Park (Commercial), Mansarovar (Commercial), SDM Hospital (Silence) and Civil Lines (Silence).

On Pre-Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has decreased at all monitoring locations except at Gandhi Nagar (residential area) during day time and SDM Hospital during day and night time. On Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has increased at all monitoring locations except at Raja Park (Commercial area) during both day and night time, Mansarovar (Residential area) during night time and SDM Hospital (Silence zone) during day time.

#### Ajmer:

In Ajmer city, Noise level monitoring was carried out at one location i.e. Kutchery Road, Ajmer (Residental). In comparison to 2018, both on Pre-Deepawali Day and on Deepawali Day, the concentration of Leq dB(A) during day and night time in 2019 has decreased at the monitoring location except during night time on Deepawali day.

#### **Bhilwara:**

In Bhilwara city, Noise level monitoring was carried out at two locations, namely, near C-209, Azad Nagar, Bhilwara (Residential) and near Kumbha Circle, Azad Nagar, Bhilwara (Commercial).

In comparison to 2018, both on Pre-Deepawali Day and on Deepawali Day, the concentration of Leq dB(A) during day and night time in 2019 has increased at both the monitoring locations except during day time near Kumbha Circle, Azad Nagar, Bhilwara.



#### Pali:

In Pali city, Noise level monitoring was carried out at three locations, namely, Near M/s Maharaja Shree Umaid Mills, Pali (Residential), Surajpol, Near Townhall, Pali (Commercial) and Govt. Bangur Hospital, Pali (Silence).

On Pre-Deepawali Day and on Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has increased at all monitoring locations except at M/s Maharaja Shree Umaid Mills, Pali during night time on Deepawali day and at Surajpol, Near Townhall, Pali during night time on both days of monitoring.

#### **Bikaner:**

In Bikaner city, Noise level monitoring was carried out at two locations i.e. Near Shivbari Chauraha, K.K.Colony (Residential) and Junagarh, Bikaner (Commercial).

On Pre-Deepawali Day and on Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has increased at the monitoring location except during night time on Pre-Deepawali day.

### Jodhpur:

In Jodhpur city, Noise level monitoring was carried out at two locations i.e. Mahamandir, Jodhpur (Residential cum Commercial) and Shastri Nagar Police Station, Jodhpur (Residential cum Commercial).

On Pre-Deepawali and Deepawali day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has decreased at all monitoring locations except at Shastri Nagar Police Station, Jodhpur on Deepawali day during night time.

#### **Kota:**

In Kota city, Noise level monitoring was carried out at three locations, namely M.B.S. Hospital, (Silence), Dadawada (Residential) and Gumanpura (Commercial).

On Pre-Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has decreased at all monitoring locations except at Dadawada (day time) and Gumanpura (day and night time); while On Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has decreased at all monitoring locations except at MBS Hospital (day and night time) and Gumanpura (night time).



### **Udaipur:**

In Udaipur city, Noise level monitoring was carried out at three locations, namely, Near Suraj Pole Gate, Udaipur (Commercial), M.B. Hospital, (Silence) and Amba Mata Scheme, Udaipur (Residential).

On Pre-Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has decreased at all monitoring locations except at MB Hospital (night time) and Amba Mata Scheme (night time); while On Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has increased at all monitoring locations.

#### Sikar:

In Sikar city, Noise level monitoring was carried out at one location i.e. Shivsinghpura Housing Board, Nawalgarh Road, (Residental).

On Pre-Deepawali and Deepawali day, in comparison to 2018, the concentration of Leq dB(A) both during day and night time in 2019 has increased at the monitoring location.

#### **Bhiwadi:**

In Bhiwadi city, Noise level monitoring was carried out at two locations namely, Ashiana Garden Society (Residential) and Star Hospital (Silence).

On Pre-Deepawali and Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has decreased at both the monitoring locations except at Ashiana Garden Society during day time on Pre-Deepawali day and Star Hospital during night time on Deepawali Day.

#### Alwar:

In Alwar city, Noise level monitoring was carried out at two locations, namely, Kala Kuan (Residential) and General Hospital (Silence).

On Pre-Deepawali and Deepawali Day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has increased at the monitoring locations except at General Hospital (night time on Deepawali day)

### **Bharatpur:**

In Bharatpur city, Noise level monitoring was carried out at one location i.e. Regional Office, RSPCB, Bharatpur (Residential).



On Pre-Deepawali and Deepawali day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has decreased at the monitoring location except during day time on Deepawali day.

### **Chittorgarh:**

In Chittorgarh city, Noise level monitoring was carried out at two locations i.e. Public Park (Commercial) and Near Home Guard Office, Kumbha Nagar (Residential).

On Pre-Deepawali and Deepawali day, in comparison to 2018, the concentration of Leq dB(A) during day and night time in 2019 has decreased at the monitoring locations except Near Home Guard Office, Kumbha Nagar during day time on Deepawali day.

#### **Balotra:**

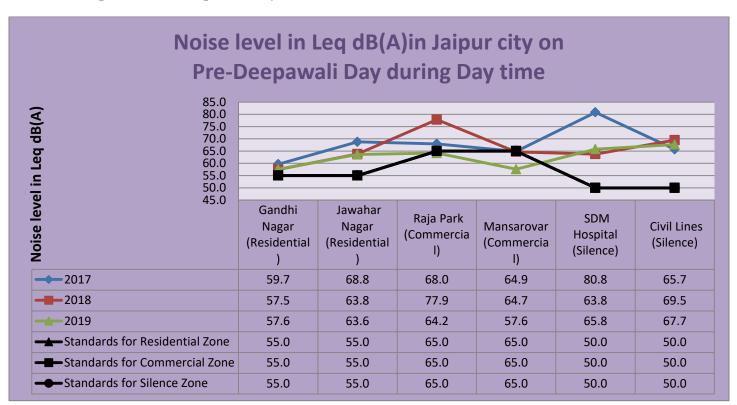
In Balotra city, Noise level monitoring was carried out at one location i.e. Maheshwari Bhawan, Near IInd Railway Crossing (Commercial).

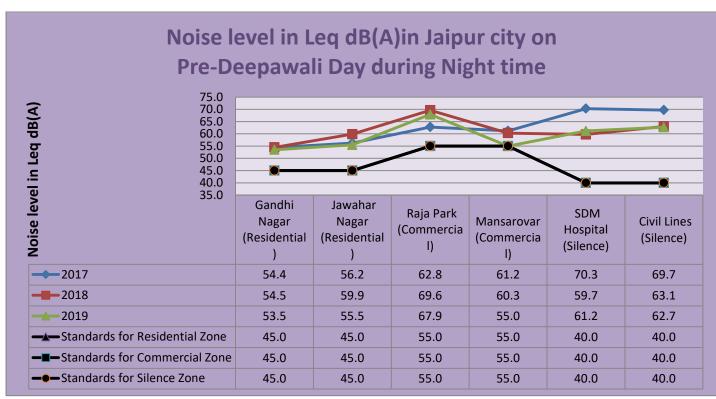
In comparison to 2018, both on Pre-Deepawali Day and on Deepawali Day, the concentration of Leq dB(A) has decreased during day time and increased during night time.

#### **CONCLUSION**

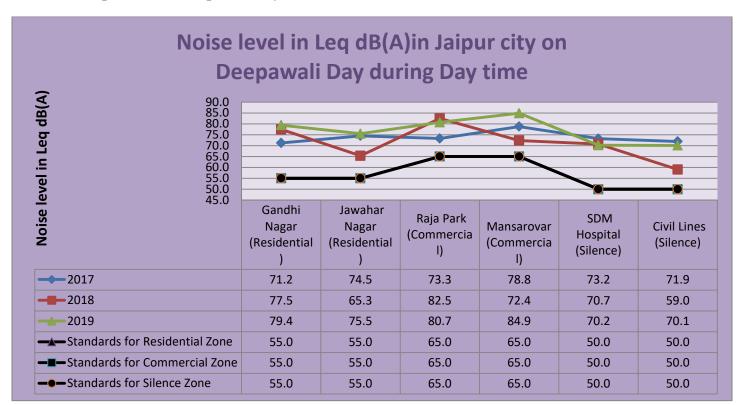
- Noise Level Monitoring was conducted on 21.10.2019 (Pre-Deepawali Day) & 27.10.2019 (On Deepawali Day) at 30 different locations in fourteen cities. On comparison of noise monitoring levels of 2018 & 2019, decrease in noise level was observed on Pre-Deepawali Day at 17 locations during day time and 18 locations during night time. While on Deepawali Day, decrease in noise level was observed at 12 locations during day time and 11 locations during night time.
- On comparison of noise monitoring levels of Pre-Deepawali Day and Deepawali Day, decrease in noise level was observed on Deepawali Day at 3 locations each during day and night time, at all other locations noise level has increased from Pre-Deepawali Day to Deepawali Day.
- Out of the 30 monitored locations, only four locations i.e. Raja Park, Jaipur (Pre-Deepawali Day- day time), Mansarovar (Pre-Deepawali Day- day and night time), Public Park, Chittorgarh (Pre-Deepawali Day- day time) and Maheshwari Bhawan, Near IInd Railway Crossing, Balotra (Pre-Deepawali Day- day & night time), have complied the Noise Standards prescribed under the provisions of Noise Pollution (Regulation & Control) Rules, 2000.

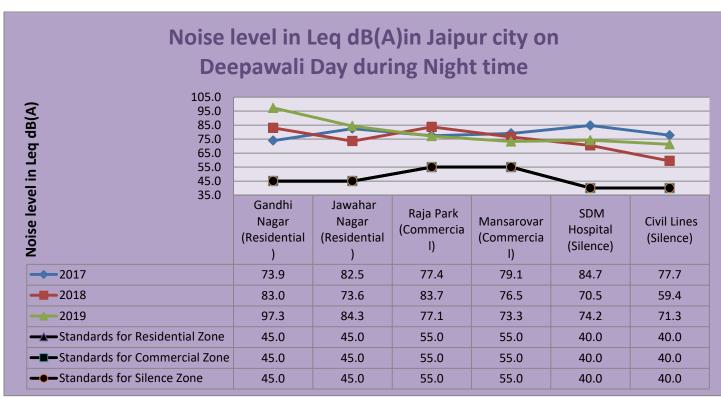




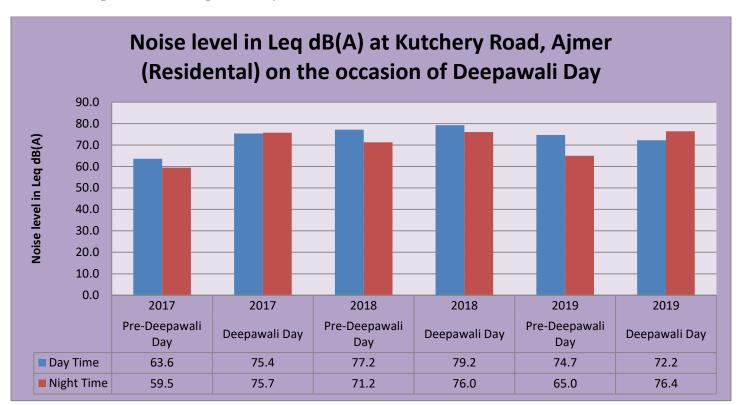


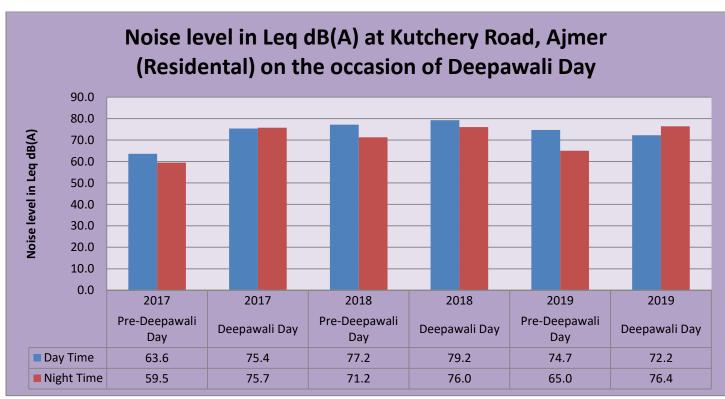




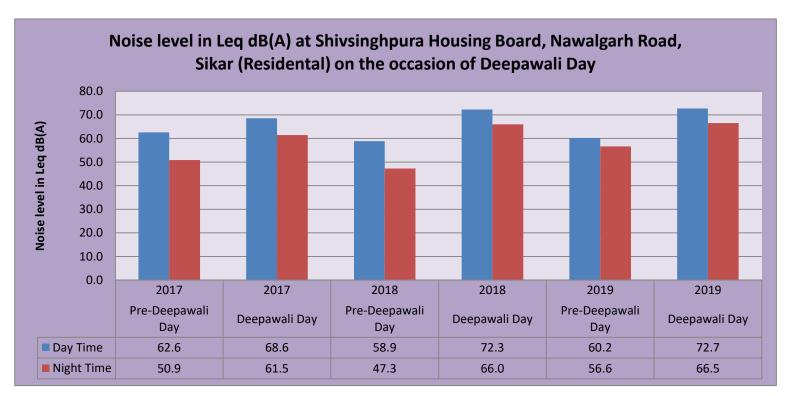


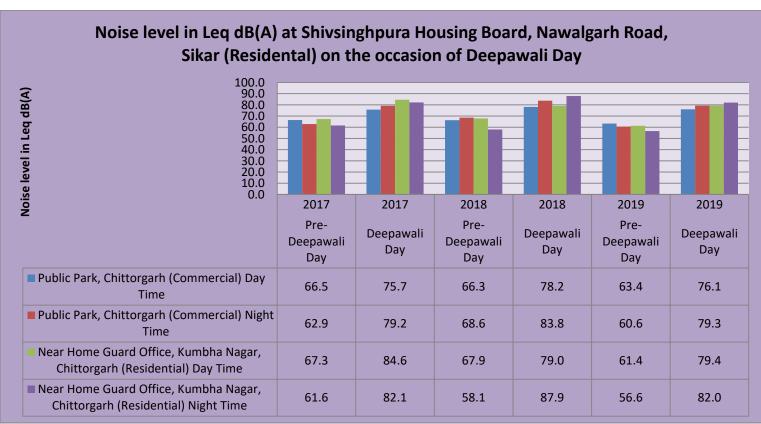




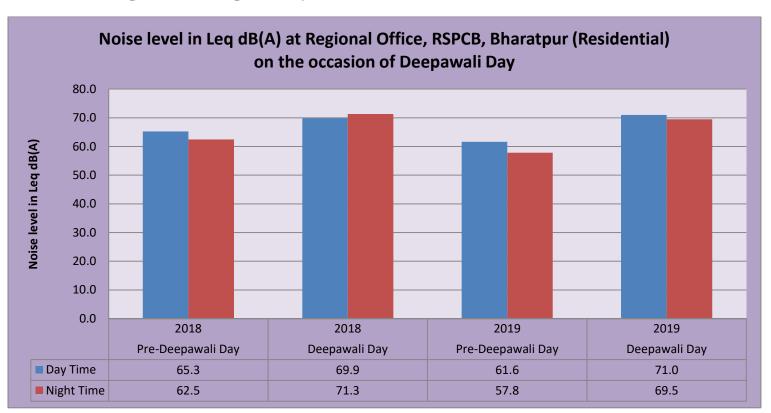


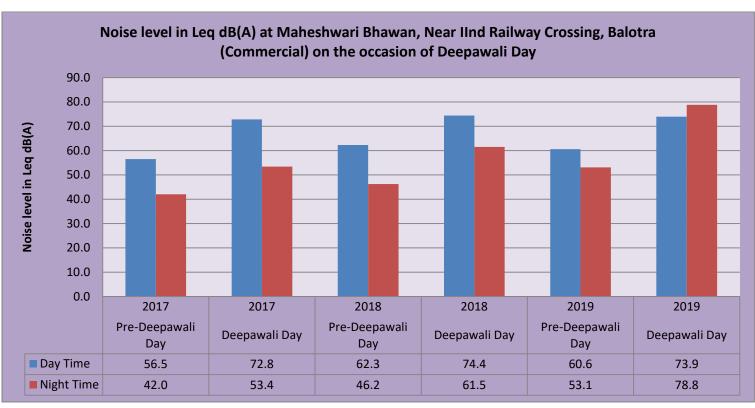




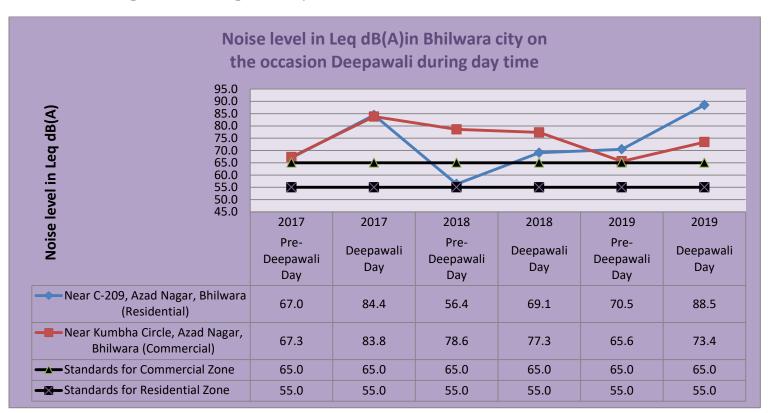


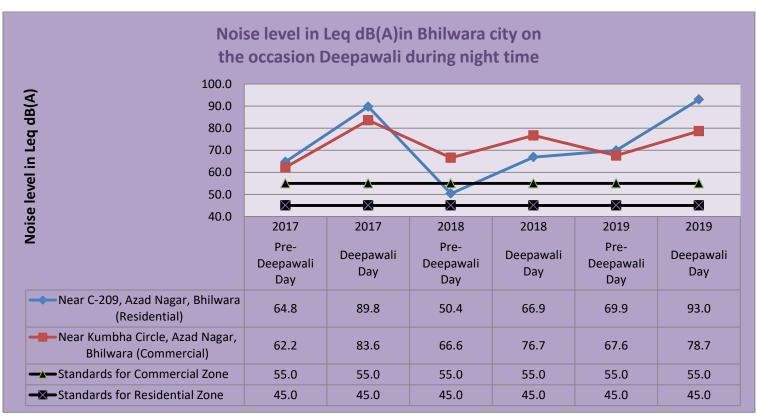




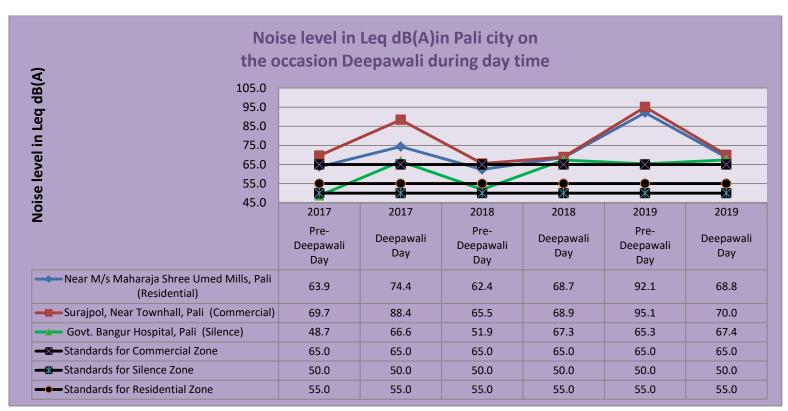


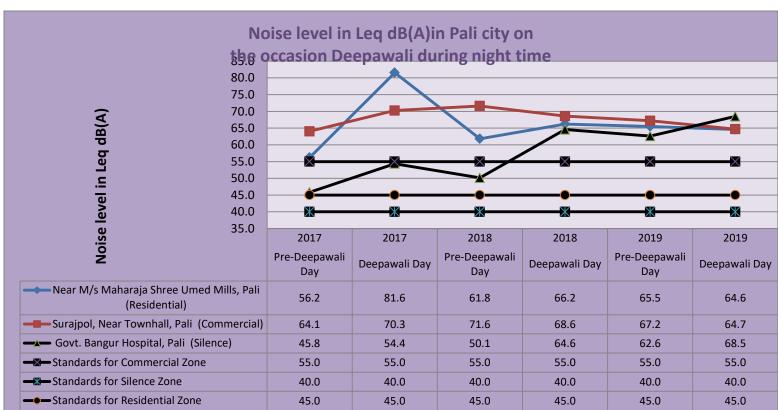




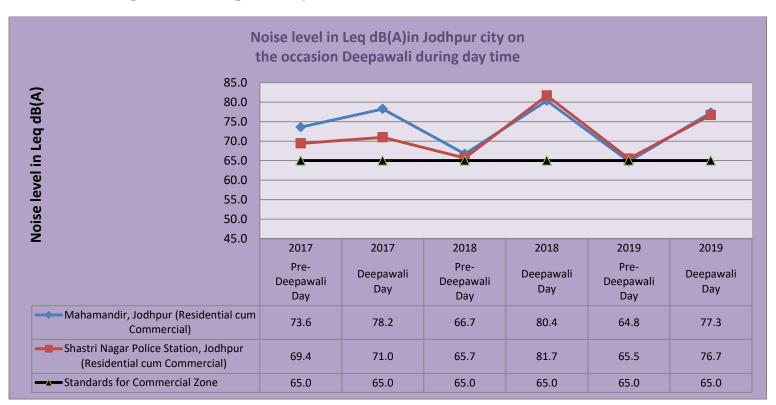


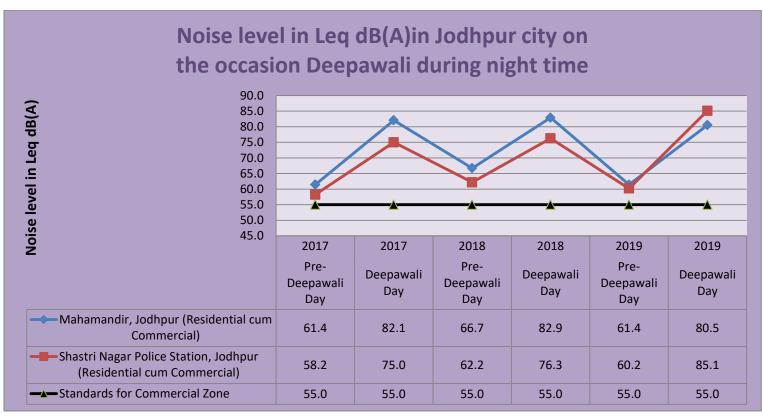




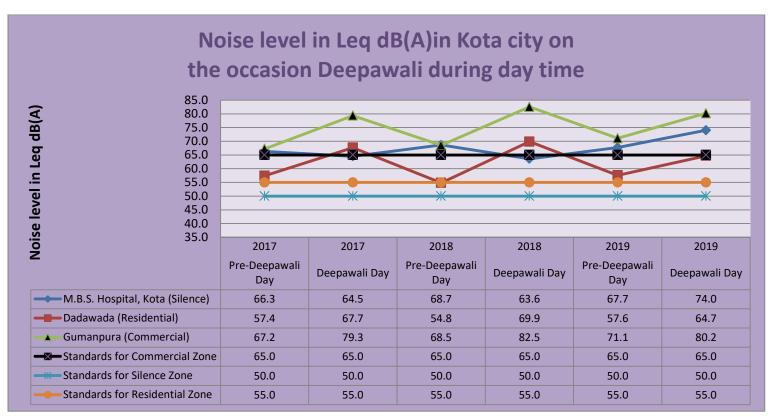


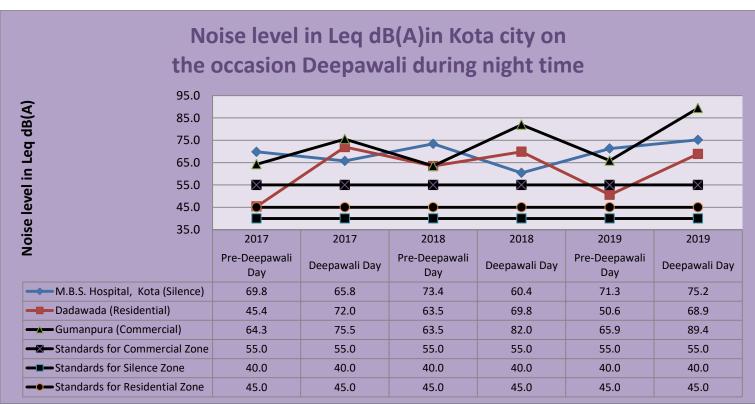




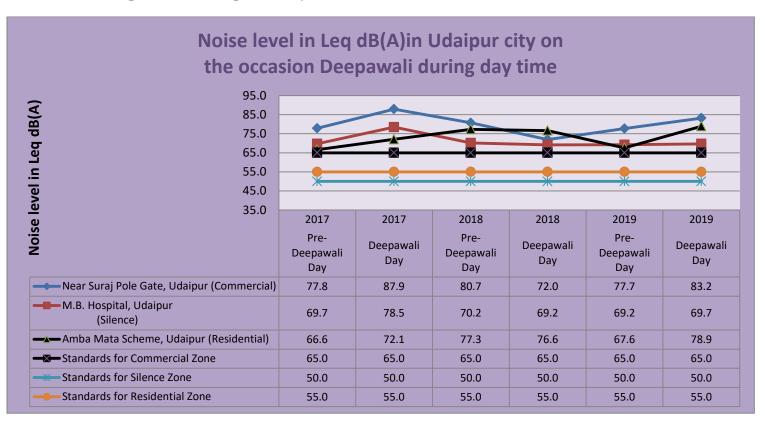


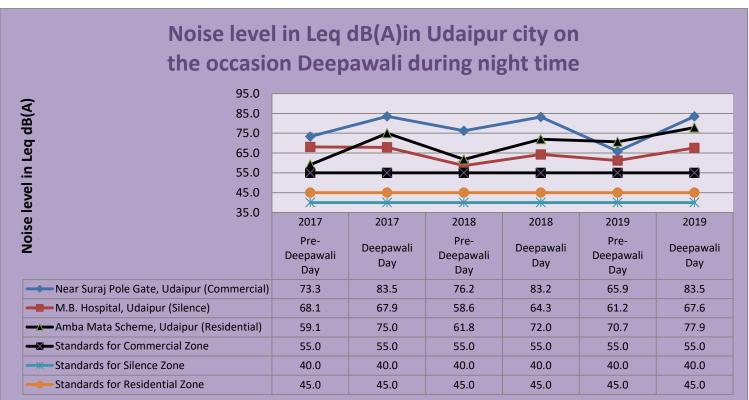




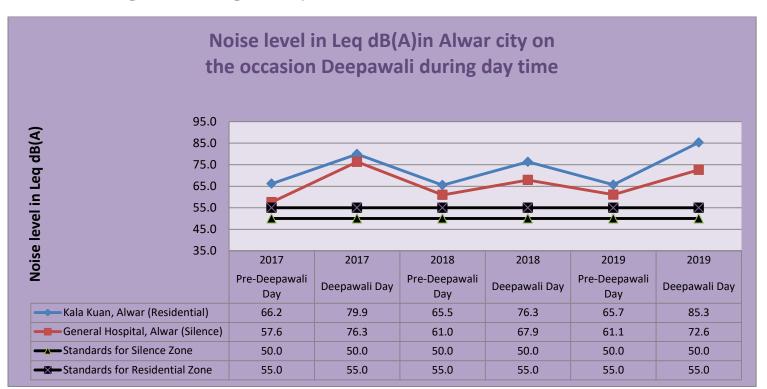


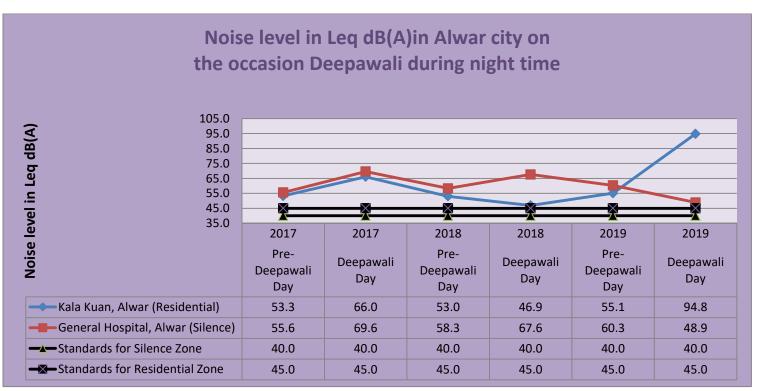














# PART - II

REPORT ON

AMBIENT AIR QUALITY

MONITORING

ON THE OCASSION OF

DEEPAWALI FESTIVAL, 2019



In order to assess the impact of bursting of fire crackers and other predominating air polluting activities on the occasion of Deepawali, the State Board undertook Manual Ambient Air Quality Monitoring (AAQM) at several locations in the state. With a view to maintain uniformity in monitoring, the entire Ambient Air Quality Monitoring were conducted as per the CPCB protocol.

Manual AAQM was carried out on 21.10.2019 (Pre-Deepawali Day) from 06:00 AM 21.10.2019 to 06:00 AM 22.10.2019 as well as on 27.10.2019 (Deepawali day) from 06:00 AM 27.10.2019 to 06:00 AM 28.10.2019 at 34 different locations in seven cities namely; Alwar, Bhiwadi, Bharatpur, Chittorgarh, Jaipur, Jodhpur, Kota and Udaipur. The manual 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.

Table	Table 3: Manual Ambient Air Quality Monitoring locations						
S. No.	Name of the city	No. of Monitoring locations					
1	Alwar	2					
2	Bharatpur	3					
3	Bhiwadi	3					
4	Chittorgarh	3					
5	Jaipur	7					
6	Jodhpur	7					
7	Kota	6					
8	Udaipur	3					
	Total	34					

Ambient Air Quality Levels in (µg/m³) on Pre-Deepawali Day and Deepawali Day (2014 – 2019) in different cities of Rajasthan have been compiled at **Annexure B and C** respectively. City—wise detailed observations are as under:

### Jaipur:

In Jaipur city, ambient air quality monitoring was carried out at seven locations, namely, Jhalana (Residential Area), Regional Office Jaipur (Residential Area) Ajmeri Gate (Residential Area), V.K.I.A. (Vishwakarma Industrial Area), M.I.A. (Malviya Industrial Area), Sitapura (Industrial Area) and Baees Godam (Industrial Area).



The data reveals that the concentration of Particulate Matter has exceeded the prescribed standards on both days of monitoring except at Jhalana (Pre-Deepawali day) and Malviya Industrial Area (Pre-Deepawali Day). The concentration of Sulphur Dioxide and Nitrogen Dioxide has remained within the prescribed standards on both days of monitoring. The concentration of PM10 has ranged between 91 to 413  $\mu$ g/m3 in Jaipur city during the monitoring period with maximum concentration of PM 10 being reported at Regional Office, Jaipur (413  $\mu$ g/m3).

#### Jodhpur:

In Jodhpur city, ambient air quality monitoring was carried out at seven locations, namely, District Industrial Corporation, Regional Office, RSPCB, Jodhpur, Shastri Nagar Police Station, Sojati Gate, Sangaria Police Sub Station, Kudi Bhagtasni Police Station and Soor Sagar Police Station.

On Pre-Deepawali Day, PM10 level has ranged between 118 to 393  $\mu g/m3$ , while same on Deepawali day it has ranged between 224 to 373  $\mu g/m3$ . The maximum PM<sub>10</sub> value of 393 $\mu g/m3$  was reported at Sangaria Police Sub Station on Pre-Deepawali Day.

On Pre-Deepawali Day, in comparison to 2018, the concentration of  $PM_{10}$  has increased at all monitoring locations except at Sangaria Police Sub Station; the concentration of  $SO_2$  has increased at all locations except at Regional; the concentration of  $NO_2$  has decreased at all locations. On Deepawali day, in comparison to 2018, the concentration of  $PM_{10}$  has decreased at all monitoring locations; the concentration of  $SO_2$  has mixed trends; the concentration of  $NO_2$  has decreased at all locations.

#### **Kota:**

In Kota city, ambient air quality monitoring was carried out at six locations, namely, Krishi Vigyan Kendra, Borkhera, Municipal Corporation Rampura, Regional Office, RSPCB, Kota, Common STP Balita, Rajasthan Technical University and Fire Station, S.N. Puram.

On Pre-Deepawali Day,  $PM_{10}$  level has ranged between 84 to 179  $\mu g/m3$ , while same on Deepawali day it has ranged between 153 to  $231\mu g/m3$ . The maximum  $PM_{10}$  value of  $231\mu g/m3$  was reported at Krishi Vigyan Kendra, Borkhera on Deepawali Day.

On Pre-Deepawali Day, in comparison to 2018, the concentration of  $PM_{10}$  has decreased at all monitoring locations except at Municipal Corporation Rampura and Fire Station, S.N. Puram; the concentration of  $SO_2$  has increased at all locations except at Regional Office, RSPCB Kota; the concentration of  $NO_2$  has increased at all locations except at Krishi Vigyan Kendra, Borkhera. On Deepawali day, in comparison to 2018, the concentration of  $PM_{10}$  has increased at all monitoring locations; the concentration of  $SO_2$  has mixed trends; the concentration of  $NO_2$  has decreased at all locations except at Municipal Corporation Rampura and Rajasthan Technical University.



### **Udaipur:**

In Udaipur city, ambient air quality monitoring was carried out at three locations namely, Town Hall, Amba Mata, Near Police Chouki and Regional Office, RSPCB, Udaipur.

On Pre-Deepawali Day, PM10 level has ranged between 119 to  $133\mu g/m3$ , while same on Deepawali day it has ranged between 143 to 196  $\mu g/m3$ . The maximum PM10 value of 196  $\mu g/m3$  was reported at Regional Office, RSPCB, Udaipur on Deepawali Day.

On Pre-Deepawali Day, in comparison to 2018, the concentration of  $PM_{10}$  has increased at all monitoring locations except at Town Hall; the concentration of SO2 has increased at all locations except at Regional Office, RSPCB, Udaipur where the concentration of SO2 has remained the same, the concentration of  $NO_2$  has decreased at all locations except at Amba Mata, Near Police Chouki. On Deepawali day, in comparison to 2018, the concentration of  $PM_{10}$  has increased at all monitoring locations except at Town Hall; the concentration of  $SO_2$  has increased at all locations; the concentration of  $NO_2$  has decreased at all locations.

#### **Bhiwadi:**

In Bhiwadi city, ambient air quality monitoring was carried out at three locations i.e. RO Building, M/s Orient Syntex (new NAMP location, adjacent to previously monitored location Uttam Strips), BIDA STP (new monitoring location) yet to be sanctioned under NAMP.

Data of M/s Orient Syntex (new NAMP location, adjacent to previously monitored location Uttam Strips) and BIDA STP for Pre-Deepawali Day and RO Building and BIDA STP for Deepawali Day; cannot be compared with previous year since monitoring was not conducted at these locations last year. On Pre-Deepawali Day, in comparison to 2018, the concentration of PM<sub>10</sub> and SO<sub>2</sub> has decreased at RO Building, Bhiwadi; the concentration of NO<sub>2</sub> has increased at RO Building, Bhiwadi. On Deepawali day, in comparison to 2018, the concentration of all three monitored parameters has increased at Uttam Strips, Bhiwadi.

#### Alwar:

In Alwar city, ambient air quality monitoring was carried out at two locations i.e. Gaurav Solvex and RIICO Pump House, Alwar.

On Pre-Deepawali Day,  $PM_{10}$  level has ranged between 152 to 185  $\mu g/m3$ , while same on Deepawali day it has ranged between 141 to 154  $\mu g/m3$ . The maximum  $PM_{10}$  value of 185  $\mu g/m3$  was reported at Gaurav Solvex on Pre-Deepawali Day.

On Pre-Deepawali and Deepawali Day, in comparison to 2018, the concentration of all three monitored parameters has decreased at both the monitoring locations.



### **Bharatpur:**

In Bharatpur city, ambient air quality monitoring was carried out at three locations i.e. Regional Office, RSPCB Building, Bharatpur, RIICO Office Building and Khadi Gramodyog Samiti, Bharatpur.

On Pre-Deepawali Day,  $PM_{10}$  level has ranged between 132 to 257  $\mu g/m3$ , while same on Deepawali day it has ranged between 220 to 315  $\mu g/m3$ . The maximum  $PM_{10}$  value of 315  $\mu g/m3$  was reported at RIICO Office Building, Bharatpur.

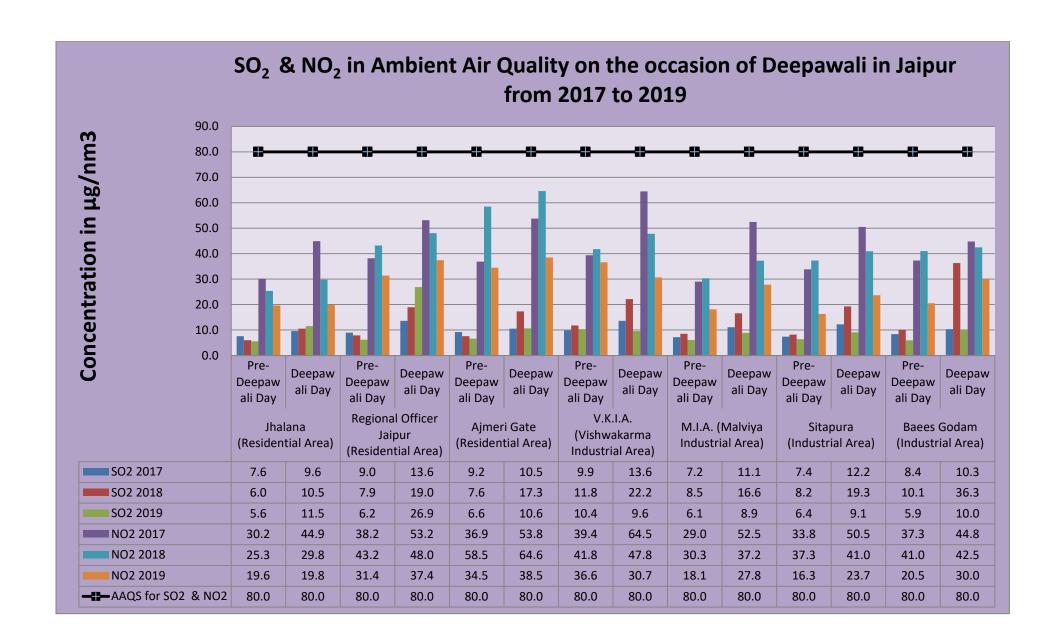
On Pre-Deepawali Day, in comparison to 2018, the concentration of  $PM_{10}$  has decreased at the monitoring locations except at Regional Office, RSPCB Building, Bharatpur; the concentration of  $SO_2$  and  $NO_2$  has increased at the monitoring locations except at Regional Office, RSPCB Building, Bharatpur. On Deepawali day, in comparison to 2018, the concentration of PM10 has decreased at the monitoring locations, the concentration of  $SO_2$  and  $NO_2$  has increased at the monitoring locations except at Regional Office, RSPCB Building, Bharatpur.

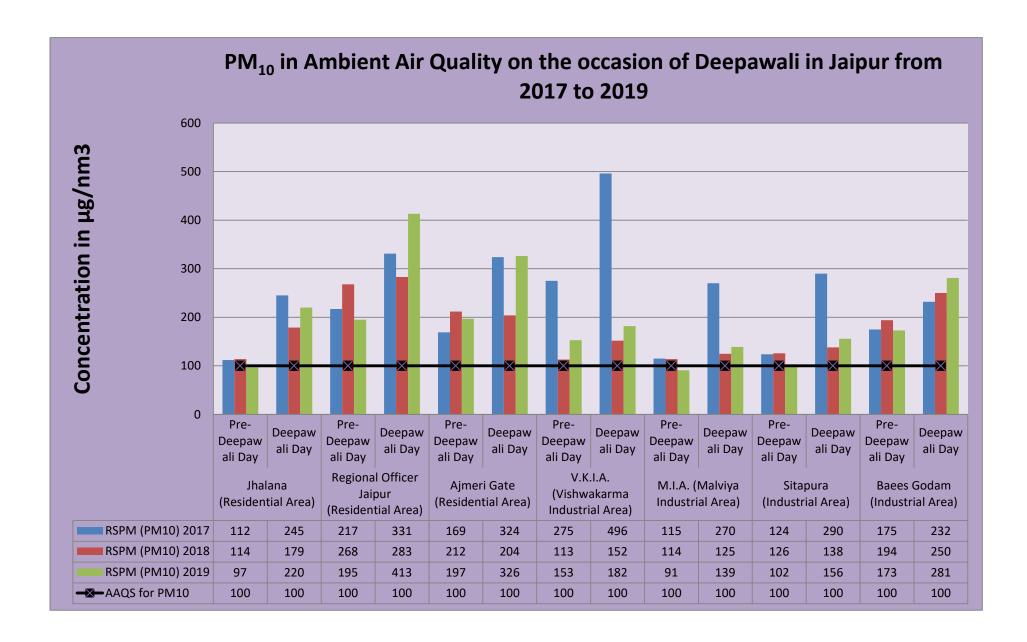
### **Chittorgarh:**

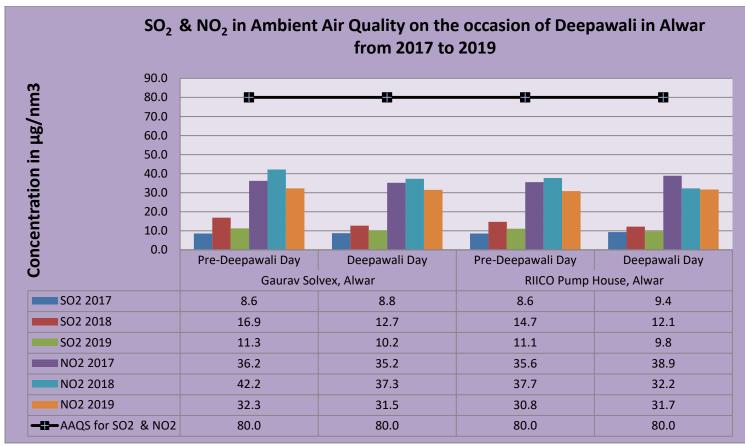
In Chittorgarh city, ambient air quality monitoring was carried out at three locations i.e. RO Building, Chanderiya, Veterinary Hospital, Meera Nagar and PHED Pump House, Segwa, Bharatpur.

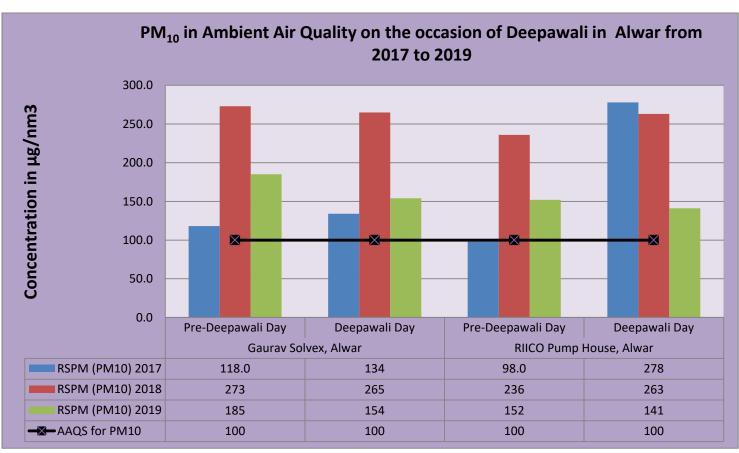
On Pre-Deepawali Day,  $PM_{10}$  level has ranged between 111 to 205  $\mu g/m3$ , while same on Deepawali day it has ranged between 160 to 214  $\mu g/m3$ . The maximum  $PM_{10}$  value of 214  $\mu g/m3$  was reported at RO Building, Chanderiya on Deepawali day.

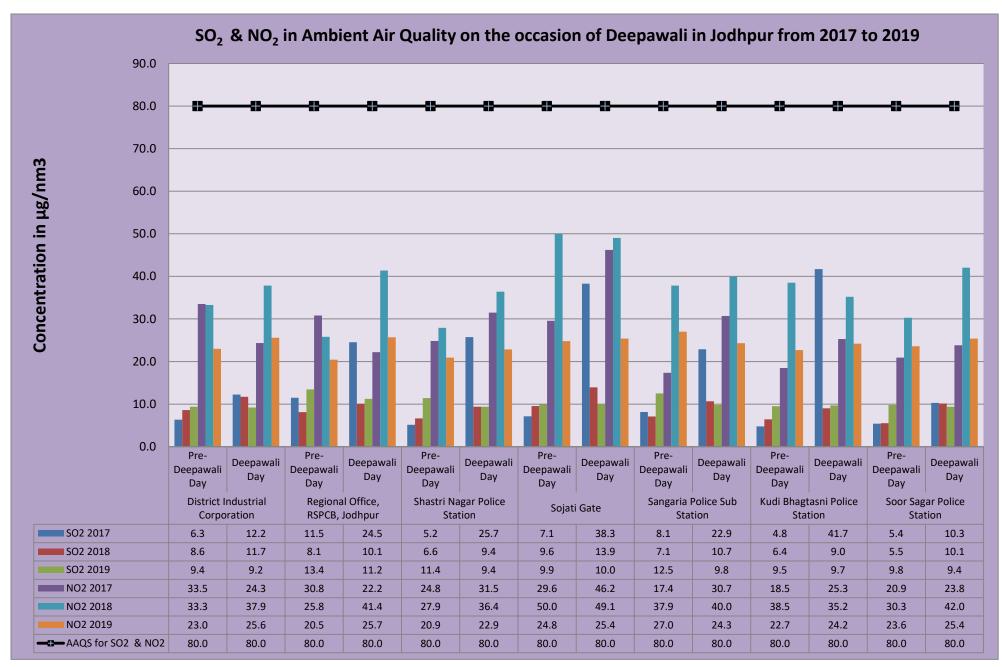
On Pre-Deepawali Day, in comparison to 2018, the concentration of PM<sub>10</sub> has decreased at the monitoring locations except at RO Building, Chanderiya, the concentration of SO<sub>2</sub> has increased at the monitoring locations except at PHED Pump House, Segwa, Bharatpur, while the concentration of NO<sub>2</sub>has decreased at the monitoring locations except at PHED Pump House, Segwa, Bharatpur. On Deepawali day, in comparison to 2018, the concentration of PM10 has decreased at the monitoring locations, the concentration of SO<sub>2</sub> has increased at the monitoring locations except at Veterinary Hospital, Meera Nagar, while the concentration of NO<sub>2</sub>has decreased at the monitoring locations except at PHED Pump House, Segwa, Bharatpur.

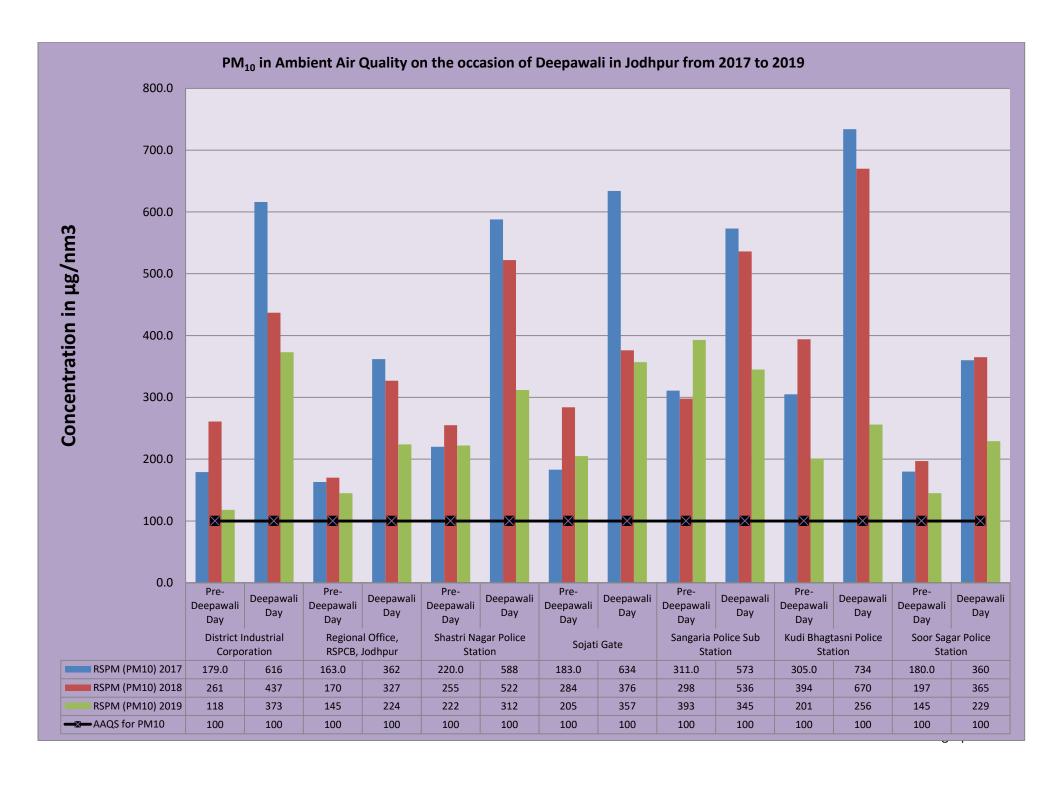




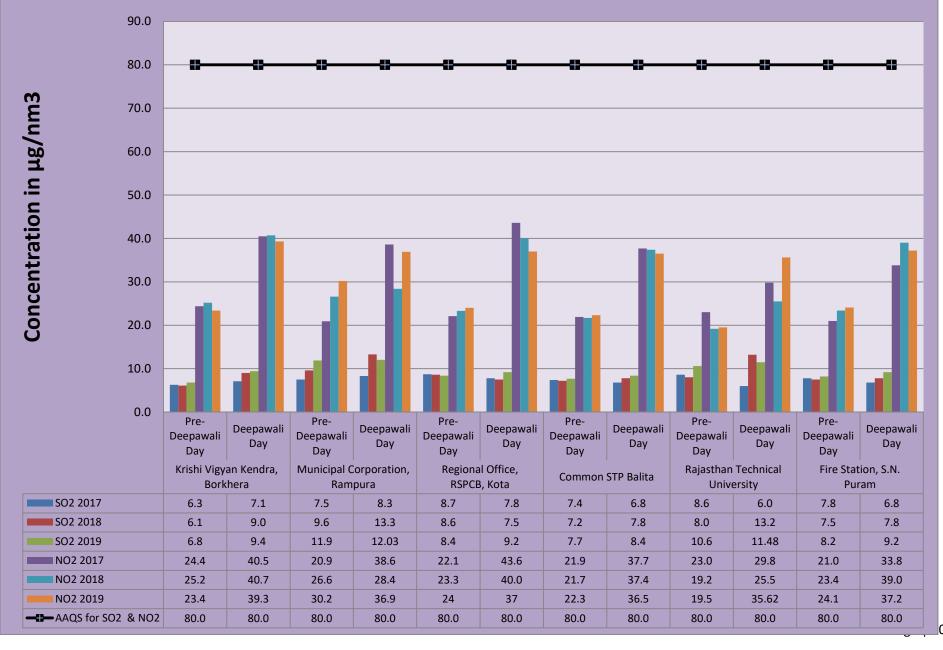




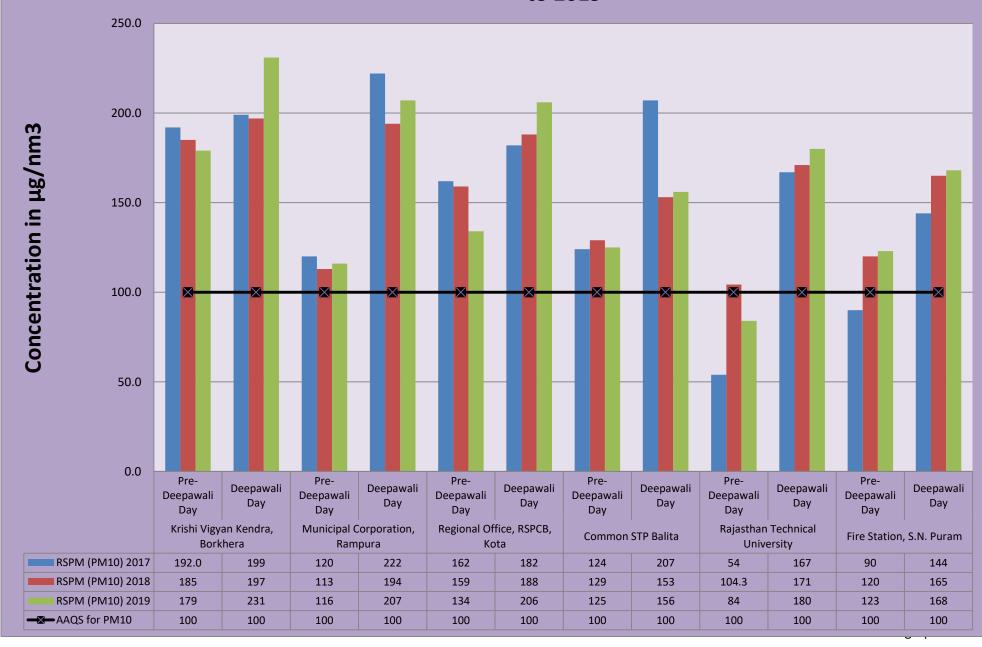


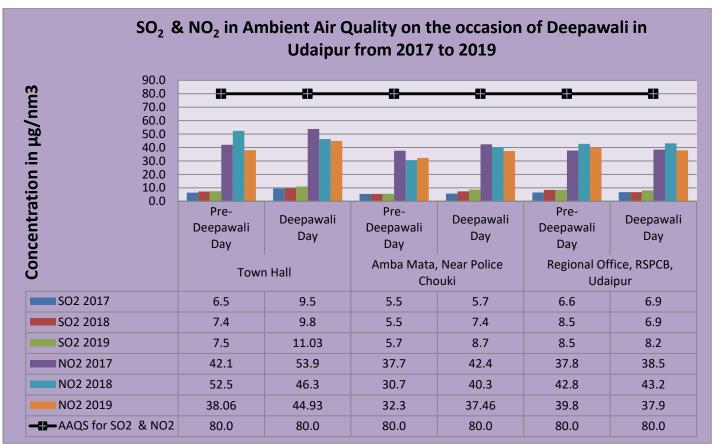


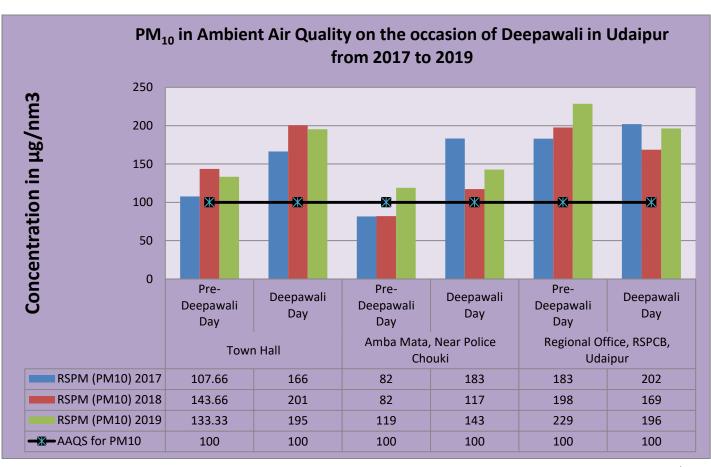
# SO<sub>2</sub> & NO<sub>2</sub> in Ambient Air Quality on the occasion of Deepawali in Kota from 2017 to 2019

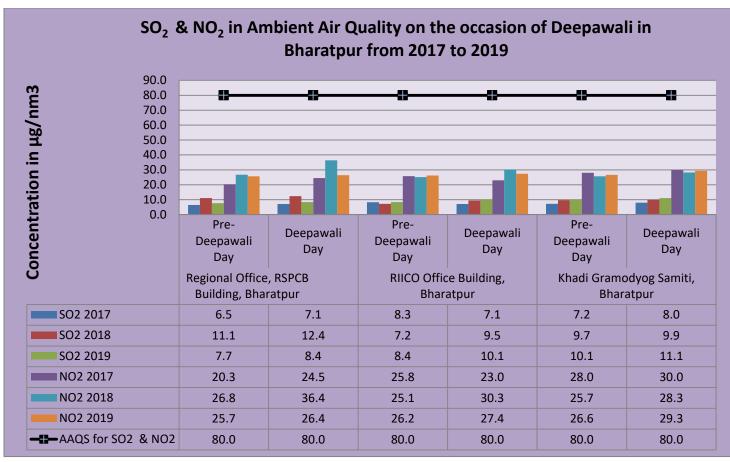


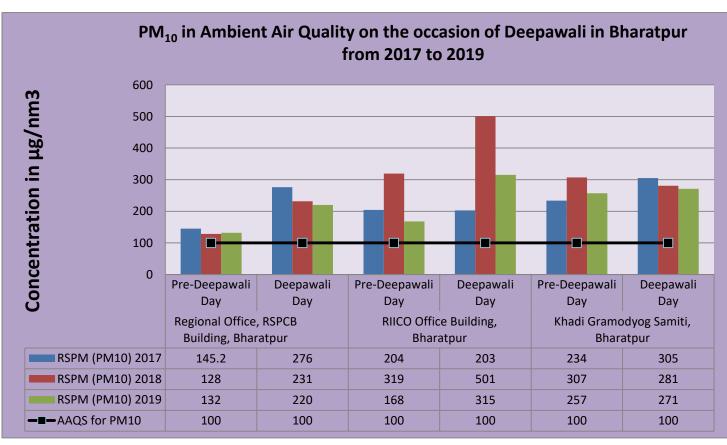
PM<sub>10</sub> in Ambient Air Quality on the occasion of Deepawali in Kota from 2017 to 2019













#### **CONCLUSION**

- State Board has also conducted Ambient Air Quality Monitoring at 34 locations of 08 (Eight) cities of Rajasthan. On comparison of Ambient Air Quality monitoring levels of 2018 & 2019, decrease in concentration of pollutants was observed on Pre-Deepawali Day from 6:00 AM (21.10.2019) to 6:00 AM (22.10.2019) for SO<sub>2</sub> at 13 locations, for NO<sub>2</sub> at 22 locations while for PM<sub>10</sub> at 24 locations, similarly on Deepawali day from 6:00 AM (27.10.2019) to 6:00 AM (28.10.2019) decrease in level for SO<sub>2</sub> at 16 locations, for NO<sub>2</sub> at 27 locations while for PM<sub>10</sub> at 17 locations was observed.
- Monitored Ambient Air Quality levels of SO<sub>2</sub> and NO<sub>2</sub> have remained within the prescribed standards both on Pre-Deepawali and Deepawali Day, while the concentration of PM<sub>10</sub> exceeded the prescribed standards both on Pre-Deepawali and Deepawali Day except at Jhalana and MIA, Jaipur, and Rajasthan Technical University, Kota on Pre-Deepawali day.

### **Continuous Ambient Air Quality Monitoring Report**

The State Board has established a network of **CAAQMS at ten locations**, three at Jaipur city and one each at Jodhpur, Ajmer, Alwar, Bhiwadi, Kota, Pali and Udaipur cities of the State where the State Board is monitoring ambient air quality parameters along with meteorological parameters.

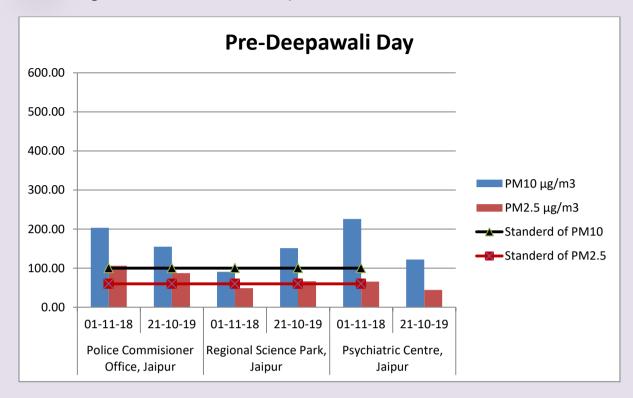
Comparison of CAAQMS data of Pre-Deepawali and Deepwali day of 2018 and 2019 of the established stations of Rajasthan is as follows:

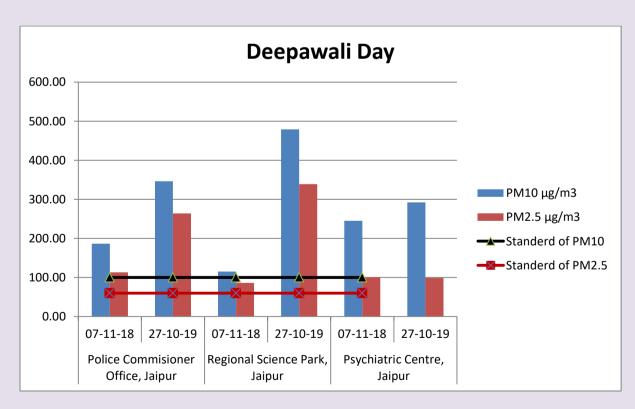
Monitoring Location: CAAQMS, Jaipur

CAAQMS Station	Parameter/ Date	NO2	NH3	SO2	со	03	PM10	PM2.5
	01-11-18	50.09	15.93	9.15	1.78	36.86	203.18	105.97
Police	07-11-18	42.24	15.69	18.29	1.32	45.73	186.52	113.27
Commisioner Office, Jaipur	21-10-19	79.41	34.92	12.89	1.46	38.11	154.69	87.29
o moo, sarpar	27-10-19	69.02	24.79	12.95	0.99	38.29	346.38	264.05
	01-11-18	49.73	40.08	9.43	1.57	65.01	90.34	48.57
Regional	07-11-18	25.95	6.93	21.20	1.53	26.05	115.25	85.90
Science Park, Jaipur	21-10-19	40.72	70.41	15.40	1.11	33.60	151.32	66.40
Jaipai	27-10-19	38.63	110.09	23.81	1.75	36.44	478.95	338.77
	01-11-18	68.54	19.80	6.86	1.98	55.84	225.68	65.62
Psychiatric	07-11-18	49.98	22.44	43.58	1.90	46.75	244.88	100.49
Centre, Jaipur	21-10-19	70.82	75.40	11.55	1.38	47.13	122.04	44.06
Juipui	27-10-19	66.75	88.55	31.27	1.24	42.98	291.93	98.88
Standar	d (24 Hr)	80	400	80	2 (8 Hr)	100 (8 Hr)	100	60



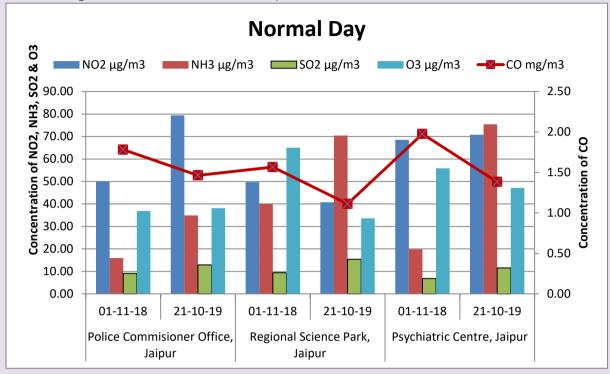
Monitoring Location: CAAQMS, Jaipur

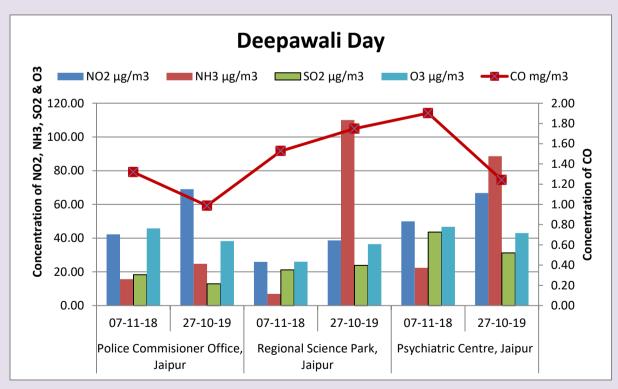






Monitoring Location: CAAQMS, Jaipur

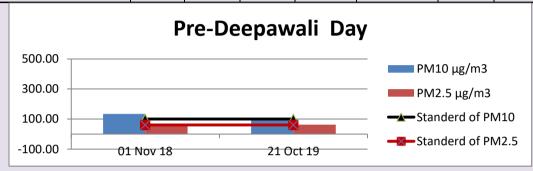


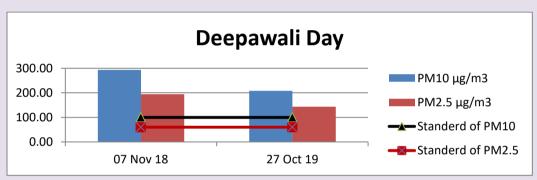


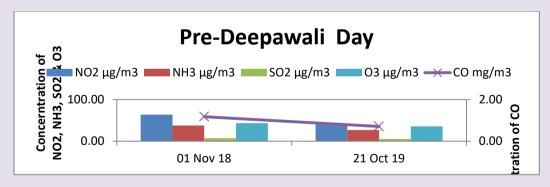


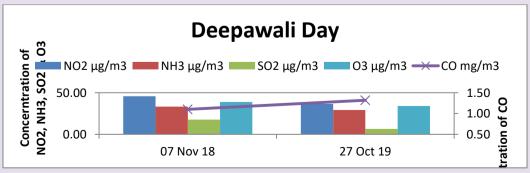
Monitoring Location: CAAQMS, Ajmer

Parameter/ Date	NO2	NH3	SO2	со	О3	PM10	PM2.5
01-11-18	63.78	37.97	7.37	1.18	43.39	134.14	56.82
07-11-18	45.77	33.38	17.82	1.10	38.85	293.50	194.11
21-10-19	40.31	27.03	5.44	0.71	35.79	108.55	62.61
27-10-19	36.65	29.20	6.57	1.32	34.02	207.74	143.22
Standard (24 Hr)	80	400	80	2 (8 Hr)	100 (8 Hr)	100	60





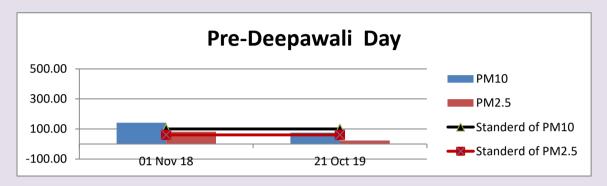


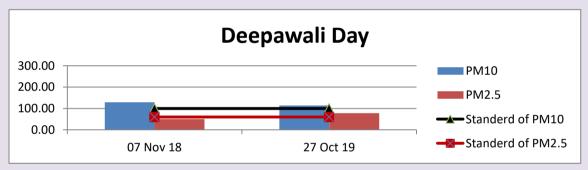


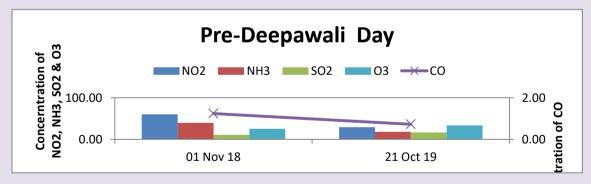


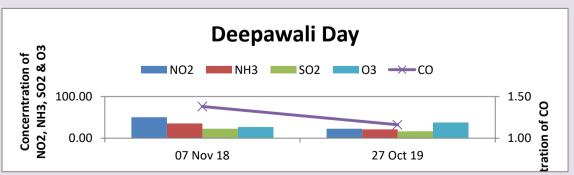
Monitoring Location: CAAQMS, Alwar

					,		
Parameter/ Date	NO2	NH3	SO2	со	О3	PM10	PM2.5
01-11-18	60.28	39.74	10.78	1.24	25.56	141.23	81.61
07-11-18	50.67	35.54	22.68	1.38	27.13	129.26	50.39
21-10-19	29.27	18.29	16.75	0.73	33.53	75.87	23.55
27-10-19	22.68	21.36	16.75	1.16	37.91	114.30	78.13
Standard (24 Hr)	80	400	80	2 (8 Hr)	100 (8 Hr)	100	60





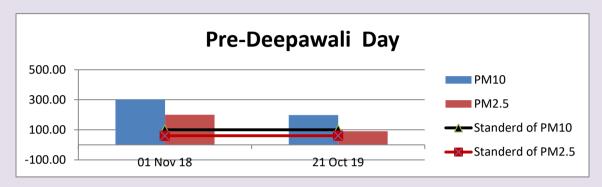


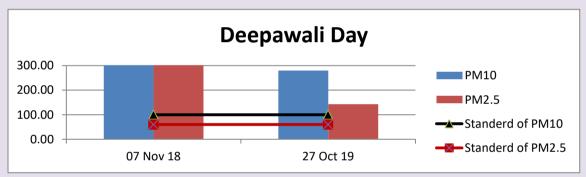


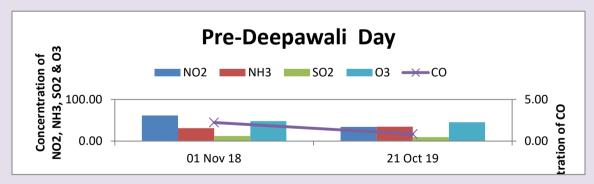


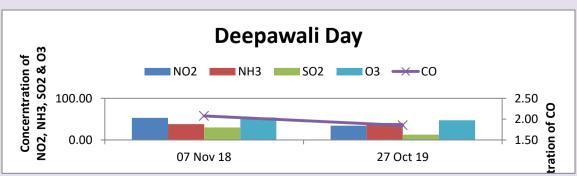
Monitoring Location: CAAQMS, Jodhpur

Parameter/ Date	NO2	NH3	SO2	СО	03	PM10	PM2.5
01-11-18	61.53	31.39	12.49	2.24	48.11	300.83	200.61
07-11-18	53.13	38.08	29.91	2.08	53.91	450.66	306.87
21-10-19	34.33	34.76	9.63	0.84	45.31	198.10	90.41
27-10-19	34.3	40.86	12.74	1.85	47.54	279.81	142.80
Standard (24 Hr)	80	400	80	2 (8 Hr)	100 (8 Hr)	100	60









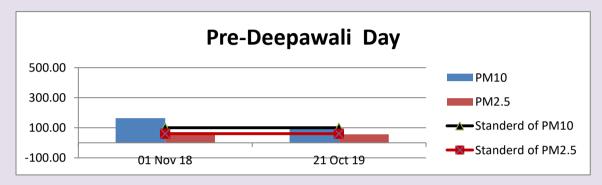


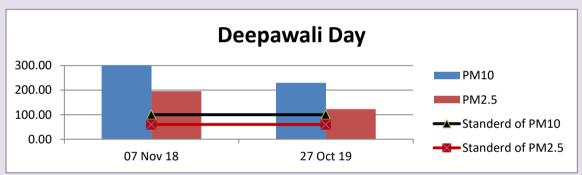
## Rajasthan State Pollution Control Board

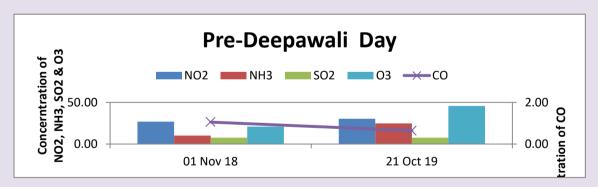
Deepawali Festival Monitoring Report, 2019

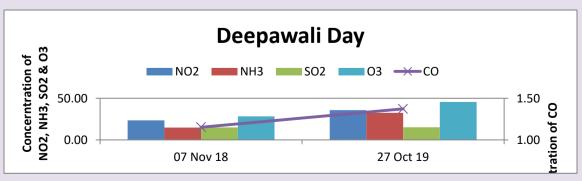
Monitoring Location: CAAQMS, Kota

		<u> </u>			,		
Parameter/ Date	NO2	NH3	SO2	СО	О3	PM10	PM2.5
01-11-18	27.01	10.26	7.69	1.06	21.00	163.35	70.30
07-11-18	23.49	14.94	15.08	1.15	28.31	303.00	195.24
21-10-19	30.45	24.88	7.67	0.65	45.89	103.07	56.60
27-10-19	35.81	32.58	15.33	1.37	45.61	229.35	122.55
Standard (24 Hr)	80	400	80	2 (8 Hr)	100 (8 Hr)	100	60





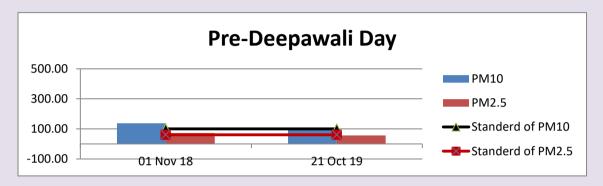


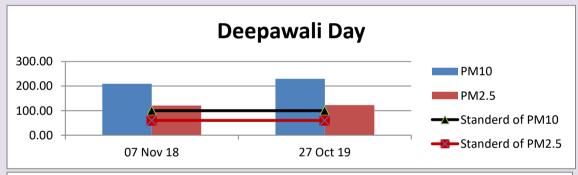


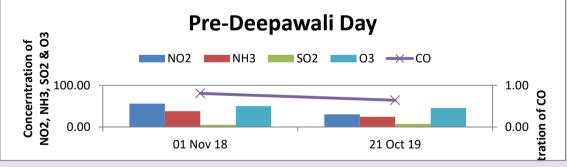


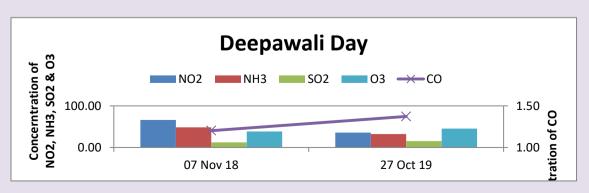
Monitoring Location: CAAQMS, Pali

Parameter/ Date	NO2	NH3	SO2	со	О3	PM10	PM2.5
01-11-18	56.35	38.30	5.49	0.81	50.53	137.20	71.86
07-11-18	66.36	48.38	12.54	1.20	38.65	209.44	120.74
21-10-19	30.45	24.88	7.67	0.65	45.89	103.07	56.60
27-10-19	35.81	32.58	15.33	1.37	45.61	229.35	122.55
Standard (24 Hr)	80	400	80	2 (8 Hr)	100 (8 Hr)	100	60





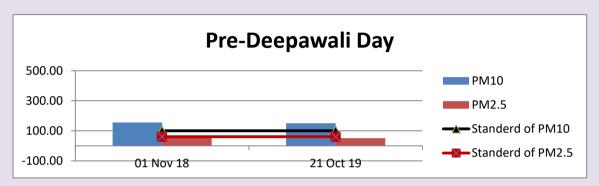


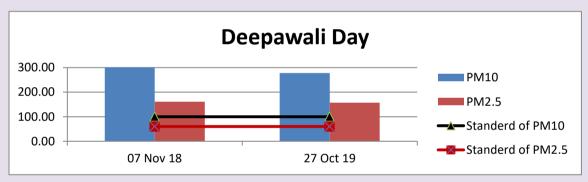


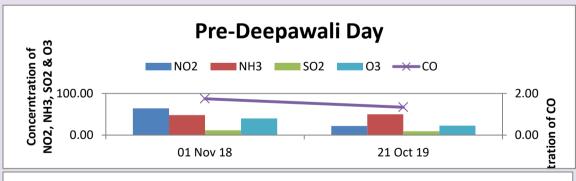


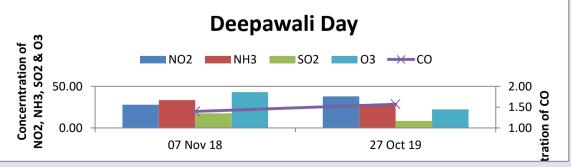
Monitoring Location: CAAQMS, Udaipur

Parameter/ Date	NO2	NH3	SO2	со	03	PM10	PM2.5
01-11-18	64.42	48.07	11.74	1.75	40.20	155.60	52.40
07-11-18	27.89	33.49	17.61	1.40	43.23	326.00	161.12
21-10-19	21.94	50.08	9.43	1.34	22.89	150.08	50.62
27-10-19	38.03	28.92	8.45	1.57	22.29	277.46	157.33
Standard (24 Hr)	80	400	80	2 (8 Hr)	100 (8 Hr)	100	60











### FOR FURTHER DETAILS, CONTACT:

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# Noise levels in Leq dB(A) 2014 - 2019 in different cities of Rajasthan on ocassion of Deepawali festival in comparison to Pre-Deepawali Day

			20	14	20	15	20	16	20	17	20	18	20	19
City Name	Name of Monitoring location		Pre- Deepawali Day	Deepawali Day										
Jaipur (  Ajmer K  Ajmer K  Bhilwara T  M  Bikaner (  Jodhpur -  Jodhpur -	Gandhi Nagar	Day Time	69.8	73.3	70.7	76.3	59.7	80.1	59.7	71.2	57.5	77.5	57.6 ♠	79.4 ↑
	(Residential)	Night Time	58.4	76.2	59.5	77.2	61.2	77.1	54.4	73.9	54.5	83.0	53.5 ♦	97.3 ♠
	Jawahar Nagar	Day Time	63.9	67.0	56.3	80.9	60.8	89.3	68.8	74.5	63.8	65.3	63.6 ♦	75.5 ♠
	(Residential)	Night Time	53.2	74.9	54.2	80.9	55.6	82.8	56.2	82.5	59.9	73.6	55.5♦	84.3 ♠
	Raja Park	Day Time	76.6	83.1	75.6	80.6	67.1	75.3	68.0	73.3	77.9	82.5	64.2▼	80.7 ₩
Jaipur	(Commercial)	Night Time	57.9	77.5	59.4	77.9	57.0	65.6	62.8	77.4	69.6	83.7	67.9♦	77.1 ♦
	Mansarovar	Day Time	_	_	_	_	71.4	74.2	64.9	78.8	64.7	72.4	57.6 ♦	84.9 🕈
	(Commercial)	Night Time	_	_	_	_	67.4	65.0	61.2	79.1	60.3	76.5	55.0 ♦	73.3 ♦
	SDM Hospital	Day Time	76.7	73.7	72.1	75.5	70.2	71.8	80.8	73.2	63.8	70.7	65.8 ↑	70.2 ♦
	(Silence)	Night Time	65.4	72.6	65.2	73.1	64.1	73.0	70.3	84.7	59.7	70.5	61.2 🕈	74.2 ↑
	Civil Lines	Day Time	64.3	70.1	63.3	68.6	63.1	68.7	65.7	71.9	69.5	59.0	67.7 ♦	70.1 ↑
	(Silence)	Night Time	62.4	73.7	59.7	66.4	59.7	66.1	69.7	77.7	63.1	59.4	62.7 ♦	71.3 🕈
Ajmer	Kutchery Road, Ajmer	Day Time		_	_	_	62.2	73.0	63.6	75.4	77.2	79.2	74.7 ♦	72.2 ♦
,	(Residental)	Night Time		_	_	_	56.9	72.3	59.5	75.7	71.2	76.0	65.0 ♦	76.4 ↑
	Near C-209, Azad Nagar,	Day Time		_	_	_	_	_	67.0	84.4	56.4	69.1	70.5 🕈	88.5 🕈
Bhilwara	Bhilwara (Residential) Near Kumbna	Night Time	_	_	_	_	_	_	64.8	89.8	50.4	66.9	69.9 <b>↑</b>	93.0 🕈
	Circle, Azad Nagar,	Day Time		_	_	_	69.4	75.6	67.3	83.8	78.6	77.3	65.6 ♥	73.4 ♦
	Bhilwara (Commercial) Near M/s	Night Time	_	_	_	_	57.8	70.0	62.2	83.6	66.6	76.7	67.6	78.7 ↑
	Maharaja Shree Umed Mills,	Day Time	65.4	80.0	51.6	67.5	71.6	90.0	63.9	74.4	62.4	68.7	92.1	68.8 ↑
	Pali (Residential)	Night Time	52.8	76.6	55.7	62.2	53.5	93.7	56.2	81.6	61.8	66.2	65.5 🕈	64.6 ♥
Pali	Surajpol, Near Townhall, Pali	Day Time	_	_	_	_	69.7	74.3	69.7	88.4	65.5	68.9	95.1	70.0 🕈
	(Commercial)	Night Time	_	_	_	_	58.8	60.4	64.1	70.3	71.6	68.6	67.2 ♥	64.7 ♥
	Govt. Bangur Hospital, Pali	Day Time	_	_	_	_	63.8	75.6	48.7	66.6	51.9	67.3	65.3 1	67.4
	(Silence)	Night Time	_	_	_	_	53.4	70.5	45.8	54.4	50.1	64.6	62.6 1	68.5 ↑
Bikaner	Junagarh, Bikaner	Day Time Night	78.8	76.2	74.8	78.9	75.6	77.5	74.6	78.4	70.7	76.2	71.6	77.3 🕈
	(Commercial)	Time Day	71.6	76.7	73.6	82.0	68.8	81.1	68.3	85.4	69.4	79.8	68.9 ♦	80.9 ↑
	Jodhpur (Residential	Time Night	73.4	77.7	64.8	90.4	70.4	79.7	73.6	78.2	66.7	80.4	64.8 ♦	77.3 ♦
Jodhpur	cum <u>Commercial</u> Snastri Nagar	Time Day	72.1	77.4	59.1	76.5	62.6	86.8	61.4	82.1	66.7	82.9	61.4 ♦	80.5 ♦
	Police Station, Jodhpur	Time Night	64.0	71.4	69.1	76.4	65.0	87.4	69.4	71.0	65.7	81.7	65.5 ♦	76.7 ♦
	(Residential	Time	66.4	73.7	64.1	75.7	65.4	83.6	58.2	75.0	62.2	76.3	60.2 ♦	85.1 ↑

	M.B.S. Hospital,	Day Time	53.3	64.1	70.8	73.1	61.4	62.8	66.3	64.5	68.7	63.6	67.7 ♦	74.0 🕈
	Kota (Silence)	Night Time	51.1	60.4	44.8	55.4	61.0	67.0	69.8	65.8	73.4	60.4	71.3 ♦	75.2 🕈
V	Dadawada	Day Time	60.9	65.2	_	_	47.9	31.5	57.4	67.7	54.8	69.9	57.6 ↑	64.7 ♦
Kota  Nota  Nota	(Residential)	Night Time	54.9	64.7	_	_	50.7	34.5	45.4	72.0	63.5	69.8	50.6 ♦	68.9 ♦
	Gumanpura	Day Time	_	_	_	_	67.1	86.8	67.2	79.3	68.5	82.5	71.1	80.2 ₩
	(Commercial)	Night Time	_	_	_	_	63.0	82.8	64.3	75.5	63.5	82.0	65.9 🕈	89.4
	Near Suraj Pole Gate, Udaipur	Day Time	66.9	82.6	76.9	80.1	75.1	87.0	77.8	87.9	80.7	72.0	77.7 ♦	83.2
	(Commercial)	Night Time	68.4	86.8	72.7	77.3	64.0	85.9	73.3	83.5	76.2	83.2	65.9 ♦	83.5
Udainur	M.B. Hospital, Udaipur	Day Time	60.5	64.0	58.2	67.0	63.6	73.9	69.7	78.5	70.2	69.2	69.2 ♦	69.7
Odalpul	(Silence)	Night Time	52.9	67.8	58.7	75.1	65.3	65.0	68.1	67.9	58.6	64.3	61.2 🕈	67.6
	Amba Mata Scheme,	Day Time	67.2	74.0	63.4	71.9	72.4	72.6	66.6	72.1	77.3	76.6	67.6 ♦	78.9 <b>↑</b>
	Udaipur (Residential)	Night Time	68.0	83.0	63.5	90.5	71.3	79.0	59.1	75.0	61.8	72.0	70.7 🕈	77.9 🕈
	Kala Kuan, Alwar	Day Time	67.3	80.8	63.6	76.1	59.4	76.9	66.2	79.9	65.5	76.3	65.7 <b>↑</b>	85.3 ↑
Alwar	(Residential)	Night Time	47.2	84.2	55.7	75.3	51.4	71.1	53.3	66.0	53.0	46.9	55.1 ↑	94.8 🕈
Aiwai	General Hospital, Alwar	Day Time	_	_	_	_	62.2	79.2	57.6	76.3	61.0	67.9	61.1 🕈	72.6 ♠
	(Silence)	Night Time	_	_	_	_	54.2	65.7	55.6	69.6	58.3	67.6	60.3 ♠	48.9 ♦
	Ashiana Garden Society,	Day Time	_	_	_	_	_	_	58.2	81.1	57.8	81.8	63.5 ♠	79.4 ♦
Rhiwadi	Bhiwadi (Residential)	Night Time	_	_	_	_	_	_	49.8	73.5	55.5	82.2	48.6 ♦	58.4 ♦
Billwaar	Star Hospital, Bhiwadi	Day Time	_	_	_	_	_	_	71.4	78.2	63.2	75.9	61.0 ♦	73.6 ♦
	(Silent)	Night Time	_	_	_	_	_	_	68.3	69.3	57.6	68.8	54.8 ♦	69.2 ♠
Sikar	Snivsingnpura Housing Board, Nawalgarh	Day Time	_	_	_	_	59.8	69.7	62.6	68.6	58.9	72.3	60.2 <b>↑</b>	72.7 🕈
	Road, Sikar	Night Time	_	_	_	_	54.0	61.5	50.9	61.5	47.3	66.0	56.6 ♠	66.5 🕈
	Public Park, Chittorgarh	Day Time	_	_	_	_	70.2	76.9	66.5	75.7	66.3	78.2	63.4 ♦	76.1 ♦
Chittorgarh	(Commercial)	Night Time	_	_	_	_	64.7	80.5	62.9	79.2	68.6	83.8	60.6 ♦	79.3 ♦
	Guard Office, Kumbha Nagar,	Day Time	_	_	_	_	73.9	79.1	67.3	84.6	67.9	79.0	61.4 ♦	79.4 ↑
	Chittorgarh (Residential)	Night Time	_	_	_	_	55.1	82.2	61.6	82.1	58.1	87.9	56.6 ₩	82.0 ♦
Bharatpur	Regional Office, RSPCB,	Day Time	_	_	_	_	_	_	_	_	65.3	69.9	61.6 ♥	71.0 ↑
	Bharatpur (Residential) Maheshwari	Night Time	_	_	_	_	_	_	_	_	62.5	71.3	57.8 ♦	69.5 ₩
Balotra	Bhawan, Near IInd Railway	Day Time	_	_	_	_	_	_	56.5	72.8	62.3	74.4	60.6 ♦	73.9 ♦
	Crossing,	Night Time	_	_	_	_	_	_	42.0	53.4	46.2	61.5	53.1 ♠	78.8 ★

STANDARD LIMITS in dB(A) Leq*												
Category of Area / Zone	DAY	NIGHT										
COMMERCIAL	65	55										
RESIDENTIAL	55	45										
SILENCE	50	40										

# Ambient Air Quality Levels in (µg/m3) on Pre-Deepawali Day 2014 - 2019 in different cities of Rajasthan

					SO2					N	02					RSPM	(PM1	0)	
City	Location	2014	2015	2016	2017	2018	2019	2014	2015	2016	2017	2018	2019	2014	2015	2016	2017	2018	2019
	Jhalana (Residential Area)	4.6	6.8	7.4	7.6	6.0	5.6 ₩	30.6	34.5	28.7	30.2	25.3	19.6♥	45	119	150	112	114	97 ₩
	Regional Officer Jaipur	5.4	7.9	8.9	9.0	7.9	6.2 ₩	36.5	41.7	36.9	38.2	43.2	31.4♥	147	259	233	217	268	195↓
	(Residential Area)	5.4	7.9	6.9	9.0	7.9	0.2 ▼	30.3	41.7	30.9	30.2	43.2	31.4▼	147	259	233	21/	200	195*
	Ajmeri Gate (Residential Area)	4.7	7.5	9.6	9.2	7.6	6.6 ♦	33.8	36.3	35.5	36.9	58.5	34.5♥	45	177	167	169	212	197∳
lainur	V.K.I.A. (Vishwakarma	F.C	0.1	0.0	9.9	11.0	10.4₩	26.0	40.4	42.0	20.4	41.0	36.6♥	110	207	270	275	113	153
Jaipur	Industrial Area)	5.6	8.1	9.8	9.9	11.8	10.4♥	36.0	40.4	42.0	39.4	41.8	30.0	116	307	278	275	113	155
	M.I.A. (Malviya Industrial Area)	4.4	7.0	7.1	7.2	8.5	6.1 ♥	32.6	33.5	32.8	29.0	30.3	18.1♥	43	117	146	115	114	91 ♦
	Sitapura (Industrial Area)	_	_	_	7.4	8.2	6.4 ₩	_	_	_	33.8	37.3	16.3♥	_	_	_	124	126	102♥
	Baees Godam (Industrial	_	_	_	8.4	10.1	5.9 ₩	-		-	37.3	41.0	20.5♦				175	194	173₩
	Area)		7.0						20.2						202	457			
Alwar	Gaurav Solvex, Alwar RIICO Pump House, Alwar	_	7.9 7.5	8.2 9.1	8.6 8.6	16.9 14.7	11.3 <b>▼</b> 11.1 <b>▼</b>		30.3	34.8	36.2 35.6	42.2 37.7	32.3 <b>▼</b> 30.8 <b>▼</b>	_	202	157 167	<b>118</b> 98	273 236	185 <b>∀</b> 152 <b>∀</b>
	District Industrial																		
	Corporation	5.2	23.1	9.9	6.3	8.6	9.4 T	26.2	23.1	16.1	33.5	33.3	23.0♥	107	117	182	179	261	118₩
	Regional Office, RSPCB,	5.6	18.5	8.1	11.5	8.1	13.4	21.1	18.5	22.4	30.8	25.8	20.5♥	129	221	174	163	170	145♥
	Jodhpur												+						1
Jodhpur	Shastri Nagar Police Station	6.6	19.7	7.2	5.2	6.6	11.4 <sup>T</sup>	35.0	19.7	24.9	24.8	27.9	20.9♥	150	148	179	220	255	222♥
	Sojati Gate	6.8	29.0	5.3	7.1	9.6	9.9 🕈	26.2	29.0	29.3	29.6	50.0	24.8▼	206	240	154	183	284	205♥
	Sangaria Police Sub Station	_	_	_	8.1	7.1	12.5T	-	_	_	17.4	37.9	27.0♥	_	_	_	311	298	393∱
	Kudi Bhagtasni Police Station	_	_	_	4.8	6.4	9.5 🕈	_	_	_	18.5	38.5	22.7♥	_	_	_	305	394	201♥
	Soor Sagar Police Station	_	_	_	5.4	5.5	9.8 ♠	_	_	_	20.9	30.3	23.6♥	_	_	_	180	197	145♥
	Krishi Vigyan Kendra,	6.0	6.8	6.1	6.3	6.1	6.8	33.5	31.8	23.5	24.4	25.2	23.4♥	50	127	278	192	185	179♥
	Borkhera Municipal Corporation,																		
	Rampura	6.4	7.5	7.1	7.5	9.6	11.9	40.0	39.6	18.7	20.9	26.6	30.2	71	115	273	120	113	116♠
	Regional Office, RSPCB, Kota	6.2	8.3	8.0	8.7	8.6	8.4 ₩	34.1	36.8	25.3	22.1	23.3	24.0	86	176	70	162	159	134♥
Kota													<b>.</b>						
	Common STP Balita	_	_	7.2	7.4	7.2	7.7 🕈	-	ı	21.5	21.9	21.7	22.3 <sup>1</sup>	1	1	76	124	129	125♥
	Rajasthan Technical	ı	-	8.5	8.6	8.0	10.6	ı	-	24.0	23.0	19.2	19.5	-	-	59	54	104	84 ₩
	University																		
	Fire Station, S.N. Puram	_	_	8.2	7.8	7.5	8.2 🕈	-	_	19.9	21.0	23.4	24.1	-	-	98	90	120	123♠
	Town Hall	6.7	8.1	8.2	6.5	7.4	7.5 🕈	35.4	27.8	29.3	42.1	52.5	38.1♥	75	104	60	108	144	133♥
Udaipur	Amba Mata, Near Police Chouki	5.6	5.5	5.6	5.5	5.5	5.7 🕈	29.2	26.3	27.2	37.7	30.7	32.3	94	100	52	82	82	119
	Regional Office, RSPCB,					0.5	0.5	24.0	240		27.0	40.0	20.04					400	
	Udaipur	7.0	6.4	6.4	6.6	8.5	8.5	34.8	34.8	35.5	37.8	42.8	39.8♥	243	266	263	183	198	229
	RO Building, Bhiwadi	_	7.4	_	12.4	20.3	19.0♥	_	31.7	_	28.4	25.9	53.4 <sup>†</sup>	_	197		376	380	288♥
	Orient Syntex (new NAMP location, adjacent to																		
Bhiwadi	previously monitored	-	_	_	12.6	_	9.2	_	_	_	30.4	_	48.1	_	_	_	259	_	256
	location Uttam Strips)																		
	BIDA STP (new monitoring location) yet to be	_	l _	_	_	_	9.1	_	_	_	_	_	41.5	_	_	_	_	_	262
	sanctioned under NAMP						3.1						41.5						
	Regional Office, RSPCB	_	_	_	6.5	11.1	7.7 ♦	_	_	_	20.3	26.8	25.7₩	_	_	_	145	128	132
Dhari	Building, Bharatpur RIICO Office Building,																		<b>.</b>
Bharatpur	Bharatpur	_	_	_	8.3	7.2	8.4	_	_	-	25.8	25.1	26.2	_	_	_	204	319	168♥
	Khadi Gramodyog Samiti,	_	_	_	7.2	9.7	10.1	_	_	-	28.0	25.7	26.6	_	_	_	234	307	257♥
	Bharatpur RO Building, Chanderiya,																		
	Chittorgarh		_	_	_	7.4	11.4 <sup>†</sup>	_	-	_	_	27.8	24.7♥	_	_	_	_	190	205
Chittorgarh	Veterinary Hospital, Meera	_	_	_	_	6.5	6.6		_	-	_	32.9	29.0♥		_		_	238	166♥
	Nagar, Chittorgarh PHED Pump House, Segwa,																		
	Chittorgarh	_	_	_	_	5.9	5.7 ♥	-	-	1	_	22.2	43.7	_	_	_	_	123	111♥
	STANDARDS	80	80	80	80	80	80	80	80	80	80	80	80	100	100	100	100	100	100

#### Annexure C

# Ambient Air Quality Levels in ( $\mu g/m3$ ) on Deepawali Day 2014 - 2019 in different cities of Rajasthan

				s	02		CICIIC				NO2					RSPM	(PM10)		
City	Location	2014	2015	2016	2017	2018	2019	2014	2015	2016	2017	2018	2019	2014	2015	2016	2017	2018	2019
	Jhalana (Residential Area)	8.2	9.9	9.7	9.6	10.5	11.5	48.1	54.2	45.7	44.9	29.8	19.8♥	231	330	265	245	179	220
	Regional Officer Jaipur (Residential Area)	12.5	13.0	12.7	13.6	19.0	26.9	53.0	62.4	51.9	53.2	48.0	37.4 ♥	359	446	351	331	283	413
	Ajmeri Gate (Residential Area)	10.4	11.1	11.6	10.5	17.3	10.6 ₩	52.0	53.9	53.0	53.8	64.6	38.5 ₩	280	326	345	324	204	326
Jaipur	V.K.I.A. (Vishwakarma Industrial						1												182
· ·	Area)	12.0	12.5	13.0	13.6	22.2	9.6	62.4	63.6	63.3	64.5	47.8	30.7♥	374	436	457	496	152	
	M.I.A. (Malviya Industrial Area)	9.2	9.8	10.7	11.1	16.6	8.9 ♥	51.4	53.1	51.8	52.5	37.2	27.8♥	126	219	255	270	125	139
	Sitapura (Industrial Area)	_	_	_	12.2	19.3	9.1 ♥	_	_	_	50.5	41.0	23.7♥	_	_	_	290	138	156
	Baees Godam (Industrial Area)	_	_	_	10.3	36.3	10.0 ♥	_	_	_	44.8	42.5	30.0♥	_	_	_	232	250	281
Alwar	Gaurav Solvex, Alwar	_	6.8	8.4	8.8	12.7	10.2 ♥	_	28.7	31.9	35.2	37.3	31.5♥	_	251	162	134	265	154♥
	RIICO Pump House, Alwar	_	8.2	8.5	9.4	12.1	9.8 ▼		34.5	32.8	38.9	32.2	31.7♥	_	159	165	278	263	141♥
	District Industrial Corporation	11.6	31.4	14.7	12.2	11.7	9.2 ▼	31.2	31.4	36.2	24.3	37.9	25.6♥	237	149	270	616	437	373♥
	Regional Office, RSPCB, Jodhpur	10.3	34.0	26.1	24.5	10.1	11.2	28.9	34.0	38.5	22.2	41.4	25.7▼	154	185	257	362	327	224▼
	Shastri Nagar Police Station	17.2	40.1	21.5	25.7	9.4	9.4	38.9	40.1	41.0	31.5	36.4	22.9♥	360	203	298	588	522	312♥
Jodhpur	Sojati Gate	27.5	47.7	18.8	38.3	13.9	10.0♥	35.6	47.7	40.2	46.2	49.1	25.4♥	379	179	337	634	376	357♥
	Sangaria Police Sub Station	_	_	_	22.9	10.7	9.8 ♥	_	_	_	30.7	40.0	24.3 ♥	-	_	_	573	536	345♥
	Kudi Bhagtasni Police Station	_	_	_	41.7	9.0	9.7	_	_	_	25.3	35.2	24.2▼	_	_	_	734	670	256♥
	Soor Sagar Police Station	_	_	_	10.3	10.1	9.4 ♥	_	_	_	23.8	42.0	25.4▼	_	_	_	360	365	229♥
	Krishi Vigyan Kendra, Borkhera	7.4	8.5	7.0	7.1	9.0	9.4 🕈	36.2	46.0	38.2	40.5	40.7	39.3♥	230	180	306	199	197	231₹
	Municipal Corporation, Rampura	9.4	8.8	6.8	8.3	13.3	12.03	41.2	52.2	42.5	38.6	28.4	36.9♠	288	293	328	222	194	207
Kota	Regional Office, RSPCB, Kota	9.2	8.7	7.2	7.8	7.5	9.2 ♥	43.8	44.2	46.1	43.6	40.0	37 ♥	178	223	214	182	188	206
	Common STP Balita	_	_	6.2	6.8	7.8	8.4 ₹	_	_	32.4	37.7	37.4	36.5♥	_	_	293	207	153	156 <sup>†</sup>
	Rajasthan Technical University	-	-	5.7	6.0	13.2	11.48	ı	ı	30.6	29.8	25.5	35.62	1	_	131	167	171	180
	Fire Station, S.N. Puram	-	-	6.0	6.8	7.8	9.2 ₹	ı	ı	32.4	33.8	39.0	37.2♥	ı	-	293	144	165	168
	Town Hall	8.6	11.1	11.0	9.5	9.8	11.03	38.8	43.5	44.7	53.9	46.3	44.93	248	273	205	166	201	195♥
Udaipur	Amba Mata, Near Police Chouki	8.5	9.0	9.2	5.7	7.4	8.7 ♠	39.1	47.9	52.5	42.4	40.3	37.46₩	140	204	143	183	117	143
	Regional Office, RSPCB, Udaipur	7.8	11.5	12.5	6.9	6.9	8.2 🕈	36.7	41.1	42.1	38.5	43.2	37.9▼	236	336	229	202	169	196
	RO Building, Bhiwadi	_	7.5	_	14.4	_	16.31	_	31.5	_	29.1	_	43.91	_	284	_	350	_	325
	BIDA STP (new monitoring																		
Bhiwadi	location) yet to be sanctioned under NAMP	_	_	_	_	_	11.1	_	_	1	_	_	42.16	_	_	_	_		310
	Orient Syntex (new NAMP location, adjacent to previously monitored location Uttam Strips)	_	_	_	14.5	35.4	49.22 <b>↑</b>	_	_	_	31.2	45.4	61.46 <b>†</b>	_	_	_	404	425	410₩
	Regional Office, RSPCB Building, Bharatpur	_	_	_	7.1	12.4	8.4 ♦	_	_	_	24.5	36.4	26.4♥	_	_	_	276	231	220♥
Bharatpur	RIICO Office Building, Bharatpur	_	_	_	7.1	9.5	10.1 ♠	_	_	_	23.0	30.3	27.4 ₩	_	_	_	203	501	315₩
	Khadi Gramodyog Samiti,	_	_	_	8.0	9.9	11.1♠	_	_	_	30.0	28.3	29.3	_	_	_	305	281	271♥
	Bharatpur RO Building, Chanderiya,																		ļ ,
	Chittorgarh	_	-	_	_	7.9	9.1 ↑	_	_	_	_	42.3	28.5 ₩	_	_	_	_	257	214
Chittorg arh	Veterinary Hospital, Meera Nagar, Chittorgarh	_	_	_	_	8.3	6.4 ♥	_	_	_	_	41.2	33.7♥	_	_	_	_	265	184♥
	PHED Pump House, Segwa, Chittorgarh	_	_	_	_	7.4	15.3	_	_	-	_	29.0	44.5	_	_	_	_	177	160♥
	STANDARDS	80	80	80	80	80	80	80	80	80	80	80	80	100	100	100	100	100	100
	· •			,				_	•										