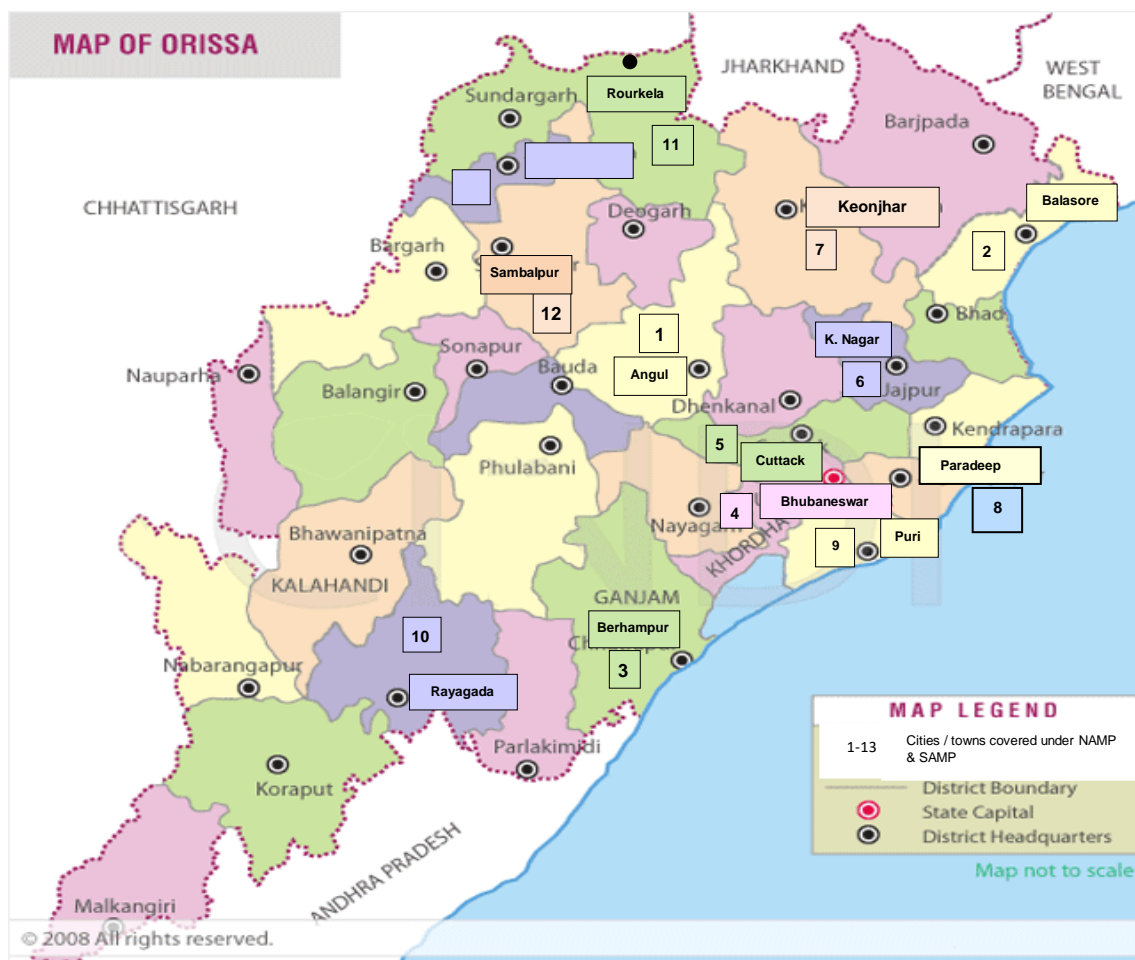


AMBIENT NOISE LEVEL AND AIR QUALITY DURING DEEPAWALI, 2017 OF MAJOR CITIES / TOWNS OF ODISHA



AMBIENT AIR QUALITY STANDARDS IN RESPECT OF NOISE

Category of Area/Zone	Limits in dB(A) Leq	
	Day Time (6.00 a.m. - 10.00 p.m.)	Night Time (10.00 p.m. - 6.00 a.m.)
Industrial area	75	70
Commercial area	65	55
Residential area	55	45
Silence Zone	50	40

NATIONAL AMBIENT AIR QUALITY STANDARDS (24 HOURLY)

SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
80	80	100	60

AMBIENT NOISE LEVEL AND AIR QUALITY DURING DEEPAWALI,2017

OF MAJOR CITIES/TOWNS OF ODISHA

1. ANGUL & Talcher

- Latitude & Longitude :20⁰49'90.0''N /85⁰06'52.5''E
- Climate/Meteorology: Dry
- Population-43,795(as per 2011 census)
- Major land use: Residential& Commercial

DESCRIPTION OF MONITORING AREA:

1. Location-A (Residential Zone) - Amalapada
2. Location-B (Commercial Zone) - Bazar Chhak
3. Location-C (Silence Zone) - District Head Quarter Hospital
4. Location-D (Industrial Zone) - Industrial Estate,Angul

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location : A Amalapada	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		44.4	94.5	74.6	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		47.8	86.5	64.5			
20:00 to 21:00 Hr		45.0	90.2	65.2			
21:00 to 22:00 Hr		46.7	84.8	60.7			
22:00 to 23:00 Hr		43.3	84.5	65.9			
23:00 to 24:00 Hr		42.8	82.8	64.0			

Location : B Bazar Chhak	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		63.6	96.3	76.5	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		65.0	99.3	78.6			
20:00 to 21:00 Hr		65.0	96.2	79.2			
21:00 to 22:00 Hr		54.0	90.5	74.3			
22:00 to 23:00 Hr		59.4	101.9	79.2			
23:00 to 24:00 Hr		52.5	84.5	67.7			

Location : C District Head Quarter Hospital	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		48.6	83.5	64.0	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		50.3	75.2	60.5			
20:00 to 21:00 Hr		51.2	84.5	63.1			
21:00 to 22:00 Hr		54.4	90.6	71.4			
22:00 to 23:00 Hr		44.0	84.0	66.6			
23:00 to 24:00 Hr		42.2	85.1	59.5			

Location : D Industrial Estate, Angul	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Industrial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		49.6	91.3	61.9	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		39.9	83.5	63.0			
20:00 to 21:00 Hr		47.3	72.8	56.1			
21:00 to 22:00 Hr		47.9	75.5	58.0			
22:00 to 23:00 Hr		44.9	82.6	62.2			
23:00 to 24:00 Hr		46.8	87.9	65.5			

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters monitored					
	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1. Industrial Estate, Hakimpada	7.6	24.7	77	Not Monitored for continuous rain due to low pressure		
2. Nalco Township	13.3	25.5	66			
3. Talcher Thermal	10.8	29.2	76			
4. MCL area, Talcher	10.6	30.8	58			
NAAQ Standards	80	80	100	80	80	100
• All values (24 hourly Average) are in µg/m ³						

2. BALASORE

- Latitude & Longitude :21°30'22.3"N/86°55'8.8"
- Climate/Meteorology: Dry
- Population :1,44,373(as per 2011 census)
- Major land use: Residential & Commercial

DESCRIPTION OF MONITORING AREA:

1. Location-A (Residential Zone)-Sahadevkhunta
2. Location-B (Commercial Zone)- Motiganj
3. Location-C (Silence Zone) -District Head Quarter Hospital
4. Location-D (Industrial Zone) -Balasore Industrial Estate

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location : A Sahadevkhunta	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		51.4	64.2	58.3	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		53.2	68.4	61.2			
20:00 to 21:00 Hr		52.3	66.3	59.6			
21:00 to 22:00 Hr		46.2	60.6	54.3			
22:00 to 23:00 Hr		42.3	57.3	50.2			
23:00 to 24:00 Hr		39.4	53.2	45.3			

Location : B Motiganj	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Commercial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		58.2	70.4	64.3	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		62.3	75.2	68.2			
20:00 to 21:00 Hr		60.4	73.3	66.4			
21:00 to 22:00 Hr		56.3	69.6	61.3			
22:00 to 23:00 Hr		52.4	66.2	56.2			
23:00 to 24:00 Hr		47.3	60.3	52.3			

Location : C District Head Quarter Hospital	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Silence	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		45.6	61.2	55.3	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		51.4	63.6	58.2			
20:00 to 21:00 Hr		40.6	58.4	52.4			
21:00 to 22:00 Hr		40.2	56.3	48.2			
22:00 to 23:00 Hr		38.3	52.4	44.3			
23:00 to 24:00 Hr		33.4	48.2	39.2			

Location : D Balasore Industrial Estate	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Industrial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		54.6	69.3	62.3	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		59.2	76.3	68.4			
20:00 to 21:00 Hr		58.3	72.6	65.2			
21:00 to 22:00 Hr		50.6	68.3	60.4			
22:00 to 23:00 Hr		48.3	64.2	57.2			
23:00 to 24:00 Hr		46.4	61.3	54.6			

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters Monitored					
	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀
1.Sahadevkhunta	BDL	10.7	75	Not Monitored for continuous rain due to low pressure		
2.Motiganj bazar	BDL	13.1	97			
3.Balasore Industrial Estate	6.05	11.5	81			
NAAQ Standards	80	80	100	80	80	100
<ul style="list-style-type: none"> All values(24 hourly Avg) are in µg/m³ 						

N.B:- BDL- Below Detectable Limit, SO₂≤4

3. BERHAMPUR

- Latitude & Longitude :19⁰18'N/84⁰51'E
- Climate/ Meteorology :Dry
- Population :3,56,598(as per 2011 census)
- Major land use: Residential & Commercial

DESCRIPTION OF MONITORING AREA:

- 1 Location-A (**Residential Zone**) - **Brahmanagar**
- 2 Location-B (**Commercial Zone**) - **Girija Market square**
- 3 Location-C (**Silence Zone**) - **MKCG Medical College Hospital Campus**
- 4 Location-D (**Industrial Zone**) - **Industrial Estate, Ankuli**

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location : A Brahmanagar	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Residential	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		55.6	89.5	66.2	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		50.3	92.3	70.2			
20:00 to 21:00 Hr		49.5	88.6	72.3			
21:00 to 22:00 Hr		52.3	87.6	60.3			
22:00 to 23:00 Hr		46.5	70.3	56.5			
23:00 to 24:00 Hr		45.3	68.2	52.3			

Location : B Girija Market square	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Commercial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		70.2	110.2	87.6	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		68.5	105.2	85.4			
20:00 to 21:00 Hr		64.2	100.2	82.5			
21:00 to 22:00 Hr		69.5	102.5	80.5			
22:00 to 23:00 Hr		64.2	98.5	78.2			
23:00 to 24:00 Hr		60.5	90.5	75.6			

Location : C MKCG Medical College Hospital Campus	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Silence	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		48.5	80.5	65.2	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		50.2	85.6	63.2			
20:00 to 21:00 Hr		54.5	86.2	61.6			
21:00 to 22:00 Hr		50.5	76.5	60.5			
22:00 to 23:00 Hr		44.3	73.5	46.8			
23:00 to 24:00 Hr		43.5	70.5	45.8			

Location : D Industrial Estate, Ankuli	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
		Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration	Industrial	62.5	93.0	78.6	Not Monitored for continuous rain due to low pressure		
18:00 to 19:00 Hr		55.8	110.2	75.8			
19:00 to 20:00 Hr		58.2	98.6	73.5			
20:00 to 21:00 Hr		60.5	102.5	71.2			
21:00 to 22:00 Hr		62.5	95.6	67.5			
22:00 to 23:00 Hr		61.4	90.5	65.2			
23:00 to 24:00 Hr							

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters Monitored					
	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀
1.Brahmanagar	BDL	16.7	75	Not Monitored for continuous rain due to low pressure		
2.Girija market square	BDL	30.7	120			
3.MKCG Medical College& Hospital	BDL	14.0	64			
4.Industrial Estate, Ankuli	BDL	25.6	118			
NAAQ Standards	80	80	100	80	80	100
*All values(24 hourly Avg) are in µg/m ³						

N.B:- BDL- Below Detectable Limit, SO₂≤4

4. BHUBANESWAR

- Latitude & Longitude : 20°16'48.2"N/85°48'46.2"E
- Climate/Meteorology :Dry
- Population :8,85,363(As per Census-2011)
- Major land use: Residential& Commercial

DESCRIPTION OF MONITORING AREA:

1. Location-A(Residential Zone) - Nayapalli
2. Location-B(Commercial Zone) - Sahid Nagar
3. Location-C(Silence Zone) - Capital Hospital
4. Location-D(Industrial Zone) - Rasulgarh

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location: A Nayapalli	Area/ Zone	Normal day (12.10.2017)			Deepawali Day (19.10.2017)		
		Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration	Residential	53.1	82.5	56.3	Not Monitored for continuous rain due to low pressure		
18:00 to 19:00 Hr		52.3	94.5	72.3			
19:00 to 20:00 Hr		51.2	97.5	70.8			
20:00 to 21:00 Hr		52.0	85.8	69.5			
21:00 to 22:00 Hr		47.4	78.8	67.8			
22:00 to 23:00 Hr		45.3	74.7	66.5			
23:00 to 24:00 Hr							

Location: B Sahid Nagar	Area/ Zone	Normal day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Commercial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		62.2	82.2	70.4	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		62.8	78.0	70.1			
20:00 to 21:00 Hr		65.1	83.9	71.2			
21:00 to 22:00 Hr		63.1	79.6	69.0			
22:00 to 23:00 Hr		54.1	84.8	67.3			
23:00 to 24:00 Hr		49.0	85.0	67.2			

Location: C Capital Hospital	Area/ Zone	Normal day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Silence	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		48.9	86.1	64.4	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		49.8	66.9	56.1			
20:00 to 21:00 Hr		50.2	79.0	61.4			
21:00 to 22:00 Hr		29.3	83.8	61.1			
22:00 to 23:00 Hr		38.7	74.7	54.5			
23:00 to 24:00 Hr		36.4	80.8	56.9			

Location: D Rasulgarh	Area/ Zone	Normal day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Industrial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		66.3	84.9	73.9	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		64.7	75.0	68.9			
20:00 to 21:00 Hr		65.8	82.5	72.3			
21:00 to 22:00 Hr		65.7	80.1	70.6			
22:00 to 23:00 Hr		47.3	81.1	65.7			
23:00 to 24:00 Hr		55.7	79.6	66.9			

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters monitored							
	Normal day (12.10.2017)				Deepawali day (19.10.2017)			
	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}
1. Office Building	BDL	28.4	82	31	Not Monitored for continuous rain due to low pressure			
2. IRC Nayapalli	BDL	20.8	78	27				
3. Capital Police Station	BDL	14.3	106	-				
4. Patrapada	BDL	13.2	83	-				
5. Chandrasekharapur	BDL	13.9	109	29				
6. Palasuni water works	BDL	16.4	46	22				
NAAQ Standards	80	80	100	60	80	80	100	60

• All values (24 hourly Average) are in µg/m³

N.B:- BDL- Below Detectable Limit, SO₂≤4

5. CUTTACK

- Latitude & Longitude : 20⁰01' N/84⁰58' E
- Climate/Meteorology: Dry
- Population :6,10,189 (as per 2011 census)
- Major land use: Residential & Commercial

DESCRIPTION OF MONITORING AREA:

1. Location-A (Residential Zone)- Suryavihar, Link Road
2. Location-B (Commercial Zone)- Badambadi
3. Location-C (Silence Zone - SCB Medical College & Hospital
4. Location-D (Industrial Zone) - Khapuria Industrial Estate

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location : A Suryavihar Link Road	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		53.2	90.1	64.6	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		61.4	89.8	71.4			
20:00 to 21:00 Hr		64.3	91.8	75.1			
21:00 to 22:00 Hr		60.4	91.2	69.9			
22:00 to 23:00 Hr		58.2	90.4	69.4			
23:00 to 24:00 Hr		59.2	83.2	68.4			

Location : B Badambadi	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		58.2	101.0	78.2	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		64.1	109.0	80.4			
20:00 to 21:00 Hr		59.0	111.9	80.5			
21:00 to 22:00 Hr		62.1	98.8	85.6			
22:00 to 23:00 Hr		58.5	96.1	70.1			
23:00 to 24:00 Hr		56.4	96.7	71.5			

Location : C SCB Medical College & Hospital	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		53.3	85.6	66.1	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		64.2	94.1	68.9			
20:00 to 21:00 Hr		58.1	78.9	62.7			
21:00 to 22:00 Hr		54.9	84.5	65.6			
22:00 to 23:00 Hr		53.1	78.0	58.3			
23:00 to 24:00 Hr		65.2	83.4	68.2			

Location : D Khapuria Industrial Estate	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Industrial Estate	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		58.2	87.9	65.9	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		63.7	100.2	73.2			
20:00 to 21:00 Hr		63.2	81.8	67.9			
21:00 to 22:00 Hr		59.3	85.5	65.8			
22:00 to 23:00 Hr		55.8	89.8	64.6			
23:00 to 24:00 Hr		55.9	90.6	67.0			

Monitoring Location	Parameters monitored							
	Normal Day (12.10.2017)				Deepawali Day (19.10.2017)			
	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}
1.On the Roof of PHD Office near Barabati Stadium	BDL	29.1	56.0	30.0	Not Monitored for continuous rain due to low pressure			
2.On the Roof of Regional Office Building, Suryavihar	BDL	28.7	60.0	36.0				
3.On The Roof of Traffic Tower Badambadi	4.1	33.8	67.0	43.0				
NAAQ Standards	80	80	100	60	80	80	100	60
<ul style="list-style-type: none"> All values (24 hourly Average) are in µg/m³ 								

N.B:- BDL- Below Detectable Limit, SO₂ ≤ 4

6. KALINGANAGAR

- Latitude & Longitude : 20° 94' 60" N, 86° 13' 01" E
- Climate/Meteorology : Dry
- Population : 56,946 (as per 2011 census)
- Major Land use : Residential & Commercial

DESCRIPTION OF MONITORING AREA:

- 1 Location-A (Residential Zone)- Sapagadia
- 2 Location-B (Commercial Zone)- Gopabandhu Chowk
- 3 Location-C (Silence Zone)- Inside the premises of CHC, Jajpur road
- 4 Location-D (Industrial Zone)- Near Tata gate No.3, KNIC, Kalinganagar

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location : A Sapagadia	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		43.4	68.6	54.5	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		43.5	75.3	56.9			
20:00 to 21:00 Hr		45.0	75.1	59.5			
21:00 to 22:00 Hr		43.3	77.3	57.5			
22:00 to 23:00 Hr		45.0	78.0	55.0			
23:00 to 24:00 Hr		41.1	76.0	53.0			

Location : B Gopabandhu Chowk	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		42.5	74.5	69.5	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		45.0	73.8	68.4			
20:00 to 21:00 Hr		50.1	82.1	64.8			
21:00 to 22:00 Hr		50.5	82.8	67.9			
22:00 to 23:00 Hr		46.7	78.1	54.6			
23:00 to 24:00 Hr		36.7	67.3	49.1			

Location : C Inside the premises of CHC, Jajpur road	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		47.0	70.1	52.4	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		47.3	69.1	57.4			
20:00 to 21:00 Hr		44.3	61.4	48.2			
21:00 to 22:00 Hr		43.0	81.1	55.4			
22:00 to 23:00 Hr		44.0	59.6	46.6			
23:00 to 24:00 Hr		56.3	100.8	66.9			

Location : D Near Tata gate No.3 KNIC, Kalinganagar	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Industrial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		43.0	83.0	67.4	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		46.8	62.8	52.3			
20:00 to 21:00 Hr		52.6	82.8	68.7			
21:00 to 22:00 Hr		58.8	79.8	62.0			
22:00 to 23:00 Hr		59.7	86.6	68.9			
23:00 to 24:00 Hr		38.3	83.4	66.0			

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters monitored					
	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1.Roof of Tata steel officers' mess, Duburi	BDL	12.5	123	Not Monitored for Not Monitored for continuous rain due to low pressure		
2.Roof of NINL Guest House	BDL	9.8	117			
3.Regional Office Building, Kalinganagar	BDL	BDL	91			
NAAQ Standards	80	80	100	80	80	100
• All values (24 hourly Average) are in µg/m ³						

N.B:- BDL- Below Detectable Limit, SO₂≤4, NO_x≤9

7. KEONJHAR

- Latitude & Longitude :21⁰ 39.270 N /85⁰ 36.577 E
- Climate/Meteorology: Dry
- Population :60,590(as per 2011 census)
- Major land use: Residential& Commercial

DESCRIPTION OF MONITORING AREA:

1. Location-A (Residential Zone)-Baniapat chowk
2. Location-B (Commercial Zone) -Punjabi Chowk
3. Location-C (Silence Zone)-Govt. Hospital

Noise Level during Deepawali festival, 2017:

Location : A Baniapat chowk	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		56.3	95.5	72.6	54.8	104.7	77.0
19:00 to 20:00 Hr		60.8	85.0	71.3	57.1	119.5	88.2
20:00 to 21:00 Hr		60.0	89.5	74.2	60.7	101.4	81.2
21:00 to 22:00 Hr		64.2	84.4	73.5	62.9	99.1	75.1
22:00 to 23:00 Hr		60.5	84.4	69.4	56.5	105.3	74.1
23:00 to 24:00 Hr		55.8	86.9	68.9	55.7	93.4	73.3

Location :B Punjabi Chowk	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		60.7	93.9	75.5	69.0	118.0	91.1
19:00 to 20:00 Hr		68.8	111.1	83.6	57.6	121.3	94.4
20:00 to 21:00 Hr		56.5	102.8	79.1	56.3	115.8	85.0
21:00 to 22:00 Hr		57.6	94.7	76.6	61.0	113.7	86.2
22:00 to 23:00 Hr		60.8	92.1	76.0	57.1	101.8	77.2
23:00 to 24:00 Hr		62.4	90.8	75.6	57.7	97.0	76.7

Location : C Govt. Hospital	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		56.5	90.7	67.4	57.6	91.8	72.0
19:00 to 20:00 Hr		56.1	93.6	65.4	57.4	97.9	74.3
20:00 to 21:00 Hr		56.6	88.1	64.3	56.8	95.0	71.3
21:00 to 22:00 Hr		55.1	91.5	64.0	55.9	88.9	71.6
22:00 to 23:00 Hr		55.0	94.0	65.5	57.6	95.3	70.9
23:00 to 24:00 Hr		56.8	82.6	61.6	56.2	85.8	65.6

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters monitored					
	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1. Regional Office Building	BDL	15.6	43	BDL	20.9	47
NAAQ Standards	80	80	100	80	80	100
• All values (24 hourly Average) are in µg/m ³						

N.B:- BDL- Below Detectable Limit, SO₂≤4

8. Paradeep

- Latitude & Longitude :20° 16' 27" N, 86° 38'24" E
- Climate/Meteorology : Dry
- Population :68585 (as per 2011 census)
- Major Land use : Residential, Commercial & Industrial

DESCRIPTION OF MONITORING AREA:

1. Location-A (Residential Zone)- PPT Colony, Madhuban, Paradeep
2. Location-B (Commercial Zone)- Badpadia Market, Paradeep
3. Location-C (Silence Zone)- Biju Memorial Hospital, Atharabanki
4. Location-D (Industrial Zone)- IFFCO Ltd. Paradeep

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location : A PPT Colony, Madhuban, Paradeep	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		56.3	82.7	66.4	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		39.9	80.3	59.6			
20:00 to 21:00 Hr		46.4	71.3	50.1			
21:00 to 22:00 Hr		38.7	76.9	59.3			
22:00 to 23:00 Hr		33.0	76.2	54.7			
23:00 to 24:00 Hr		53.2	73.8	64.1			

Location : B Badpadia Market, Paradeep	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		53.5	98.9	70.2	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		56.1	94.1	68.6			
20:00 to 21:00 Hr		49.5	77.9	63.5			
21:00 to 22:00 Hr		53.9	88.5	67.3			
22:00 to 23:00 Hr		56.9	81.5	68.3			
23:00 to 24:00 Hr		40.5	76.0	58.8			

Location : C Biju Memorial Hospital, Atharbanki	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		51.7	89.5	68.3	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		56.4	76.1	64.2			
20:00 to 21:00 Hr		42.9	79.9	58.8			
21:00 to 22:00 Hr		42.2	72.9	50.7			
22:00 to 23:00 Hr		41.2	69.1	53.8			
23:00 to 24:00 Hr		31.5	83.5	59.0			

Location : D IFFCO Ltd. Paradeep	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Industrial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		41.7	79.9	60.7	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		41.3	79.5	65.6			
20:00 to 21:00 Hr		56.0	86.3	67.2			
21:00 to 22:00 Hr		56.4	87.2	69.3			
22:00 to 23:00 Hr		57.3	78.8	67.5			
23:00 to 24:00 Hr		42.2	79.6	56.4			

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters monitored					
	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1. On the roof of STP Building, IFFCO, Paradeep	21.2	11.0	83	Not Monitored for continuous rain due to low pressure		
2. On the roof PPL Guest House, PPL Paradeep	20.6	11.1	76			
3. On the roof PPT Staff Quarters, PPT Paradeep	19.9	11.0	56			
NAAQ Standards	80	80	100	80	80	100
• All values (24 hourly Average) are in µg/m ³						

9. PURI

- Latitude & Longitude : 19°16'17.1" N/ 85°49'57.4" E
- Climate/Meteorology: Dry
- Population :2,00,564(as per 2011 census)
- Major land use: Residential

DESCRIPTION OF MONITORING AREA:

1. Location-A (**Residential Zone**)-Kumutisahi, Old Sadar lane
2. Location-B (**Commercial Zone**)-Gundicha Temple
3. Location-C (**Silence Zone**)-District Head Quarter Hospital

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location: A Kumutisahi, Old Sadar lane,Puri	Area/ Zone	Normal day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Residential	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		55.6	79.3	63.8	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		54.4	104.8	86.1			
20:00 to 21:00 Hr		56.0	91.9	72.1			
21:00 to 22:00 Hr		56.1	90.6	73.3			
22:00 to 23:00 Hr		58.1	82.1	68.4			
23:00 to 24:00 Hr		50.6	88.4	67.4			

Location: B Sri Mandir, Puri	Area/ Zone	Normal day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Commercial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		67.4	86.9	74.3	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		67.2	93.1	77.4			
20:00 to 21:00 Hr		65.0	83.3	73.2			
21:00 to 22:00 Hr		63.5	84.6	71.1			
22:00 to 23:00 Hr		67.3	79.2	79.2			
23:00 to 24:00 Hr		62.5	95.1	75.1			

Location: C District Head Quarter Hospital	Area/ Zone	Normal day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Silence	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		50.6	75.2	59.1	Not Monitored for continuous rain due to low pressure		
19:00 to 20:00 Hr		51.6	71.5	59.2			
20:00 to 21:00 Hr		53.5	77.0	66.9			
21:00 to 22:00 Hr		46.9	83.3	62.7			
22:00 to 23:00 Hr		50.4	74.1	59.5			
23:00 to 24:00 Hr		51.0	71.7	57.3			

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters monitored					
	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
Sadar Police station	BDL	12.9	39	Not Monitored for continuous rain due to low pressure		
Town Police Station	BDL	14.0	39			
NAAQ Standards	80	80	100	80	80	100
• All values (24 hourly Average) are in µg/m ³						

N.B:- BDL- Below Detectable Limit, SO₂ ≤ 4

10. RAYAGADA

- Latitude & Longitude : 19°10'.724'' N/83°25'.142'' E
- Climate/Meteorology: Dry
- Population : 71,208(as per 2011 census)
- Major land use: Residential & Commercial

DESCRIPTION OF MONITORING AREA:

1. Location-A (Residential Zone)-R.K.Nagar
2. Location-B (Commercial Zone)-Main market
3. Location-C (Silence Zone)-District Head Quarter Hospital
4. Location-D (Industrial)-JESCO Rayagada

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location : A Indiranagar	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		58.6	98.6	77.7	43.9	112.4	94.2
19:00 to 20:00 Hr		63.2	91.5	79.3	44.4	104.5	81.5
20:00 to 21:00 Hr		44.9	90.6	70.3	41.2	108.2	83.5
21:00 to 22:00 Hr		52.7	87.9	73.2	56.9	91.6	71.6
22:00 to 23:00 Hr		51.3	93.2	71.3	36.4	96.9	67.2
23:00 to 24:00 Hr		42.4	68.3	53.5	33.0	84.2	59.5

Location : B Main market	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		59.0	90.9	66.0	55.3	112.4	91.1
19:00 to 20:00 Hr		54.9	91.6	71.9	52.2	104.5	78.9
20:00 to 21:00 Hr		52.7	89.0	73.1	56.6	100.7	75.5
21:00 to 22:00 Hr		56.0	83.4	70.4	38.3	89.3	70.1
22:00 to 23:00 Hr		48.9	91.1	71.6	40.1	86.9	65.3
23:00 to 24:00 Hr		34.9	87.5	59.5	32.6	76.8	61.3

Location : C District Head Quarter Hospital	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Silence						
18:00 to 19:00 Hr		46.1	88.7	67.9	53.1	89.9	74.7
19:00 to 20:00 Hr		48.9	81.1	65.0	46.2	90.5	71.6
20:00 to 21:00 Hr		55.4	84.7	70.0	40.1	88.4	64.5
21:00 to 22:00 Hr		52.3	92.0	72.3	41.9	81.9	65.3
22:00 to 23:00 Hr		40.6	91.9	61.4	36.4	76.9	51.8
23:00 to 24:00 Hr		42.2	79.1	52.8	32.0	80.3	51.6

Location : D JESCO	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Industrial						
18:00 to 19:00 Hr		50.8	89.4	72.8	51.1	99.7	75.5
19:00 to 20:00 Hr		46.4	91.7	75.4	57.2	108.8	83.3
20:00 to 21:00 Hr		51.9	89.7	74.3	57.3	108.7	81.8
21:00 to 22:00 Hr		55.5	94.4	69.7	39.7	96.9	72.4
22:00 to 23:00 Hr		42.1	87.6	68.7	31.9	96.2	70.2
23:00 to 24:00 Hr		38.0	77.0	56.0	32.8	73.2	58.3

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters monitored					
	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1. On the roof of Regional office Building	BDL	16.9	49	16.2	25.5	125
NAAQ Standards	80	80	100	80	80	100
• All values (24 hourly Average) are in µg/m ³						

11. Rourkela

- Latitude & Longitude :22.2492° N, 84.8828° E
- Climate/Metrology :Dry
- Population :3,20,040(as per 2011 census)
- Major land use : Residential &Commercial

DESCRIPTION OF MONITORING AREA:

1. Location-A (**Residential Zone**)- Sector-4
2. Location-B (**Commercial Zone**)- Bisra Chowk
3. Location-C (**Silence Zone**)- IGH, Steel Township
4. Location-D(**Industrial Zone**) - In front of main gate of RSP(SAIL)

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location : A Sector-4	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Residential						
18:00 to 19:00 Hr		39.2	87.5	49.3	44.1	118.2	81.2
19:00 to 20:00 Hr		40.1	83.1	51.8	45.6	117.3	72.1
20:00 to 21:00 Hr		40.6	79.3	48.3	46.8	115.1	61.3
21:00 to 22:00 Hr		38.2	69.1	48.1	44.2	98.5	59.2
22:00 to 23:00 Hr		38.5	55.1	47.8	36.9	56.1	52.5
23:00 to 24:00 Hr		37.9	54.2	46.0	36.3	58.3	50.6

Location : B Bisra Chowk	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Commercial						
18:00 to 19:00 Hr		48.3	102.9	81.6	52.2	113.6	88.2
19:00 to 20:00 Hr		44.2	90.4	75.2	53.4	103.1	82.3
20:00 to 21:00 Hr		42.3	96.3	76.1	51.2	95.3	84.7
21:00 to 22:00 Hr		47.1	89.1	73.2	51.9	99.7	76.3
22:00 to 23:00 Hr		46.1	88.6	71.4	52.1	108.6	75.4
23:00 to 24:00 Hr		46.8	72.1	69.4	49.7	96.3	71.3

Location : C IGH, Steel Township	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Silence						
18:00 to 19:00 Hr		47.3	66.1	52.2	45.9	96.3	59.7
19:00 to 20:00 Hr		41.2	65.7	45.3	48.3	85.6	55.1
20:00 to 21:00 Hr		44.6	59.8	44.1	41.6	88.9	57.9
21:00 to 22:00 Hr		49.1	53.2	41.8	39.3	79.8	59.2
22:00 to 23:00 Hr		41.3	56.5	43.1	38.7	79.1	59.1
23:00 to 24:00 Hr		38.9	58.1	49.5	40.6	75.3	54.2

Location : D In front of main gate of RSP(SAIL)	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Industrial						
18:00 to 19:00 Hr		51.0	89.8	65.9	50.8	88.2	69.4
19:00 to 20:00 Hr		48.7	82.1	61.3	48.4	75.1	64.1
20:00 to 21:00 Hr		42.3	75.6	58.1	45.6	74.3	67.3
21:00 to 22:00 Hr		46.1	76.1	55.6	44.3	75.9	58.6
22:00 to 23:00 Hr		50.6	79.4	52.1	40.7	76.2	58.1
23:00 to 24:00 Hr		42.6	68.2	49.3	39.3	68.6	51.9

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters monitored					
	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1. On the roof of Regional office Building	5.8	10.4	72	6.8	11.0	88
2. IDL Police Outpost	6.5	9.8	102	7.9	11.0	113
3. DISIR, Rajgangur	6.8	10.6	56	11.8	16.2	112
4. Bonai Hospital, Bonai	6.1	11.2	62	6.9	12.4	65
5. Kuarmunda Hospital, Kuarmunda	4.9	9.5	43	5.8	10.0	70
NAAQ Standards	80	80	100	80	80	100
• All values (24 hourly Average) are in µg/m ³						

12. SAMBALPUR

- Latitude & Longitude : 20°47'N / 83°97' E
- Climate/Meteorology : Dry
- Population : 1,89,366 (as per 2011 census)
- Major land use: Residential & Commercial

DESCRIPTION OF MONITORING AREA:

1. Location-A (Residential Zone) - Ainthapalli
2. Location-B (Commercial Zone) - Goal Bazar Chowk
3. Location-C (Silence Zone) - Dist Head Quarter Hospital, Modipara
4. Location-D (Industrial) - Bareipali

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2017:

Location : A Ainthapalli	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Residential						
18:00 to 19:00 Hr		36.5	66.8	56.3	42.3	70.6	60.4
19:00 to 20:00 Hr		38.2	62.2	44.6	40.8	68.3	64.8
20:00 to 21:00 Hr		32.5	64.6	56.2	38.6	71.6	62.3
21:00 to 22:00 Hr		32.3	60.1	42.5	44.2	68.9	65.8
22:00 to 23:00 Hr		35.8	62.8	40.6	40.8	69.3	59.5
23:00 to 24:00 Hr		33.2	60.4	38.4	38.2	65.8	56.3

Location : B Goal Bazar Chowk	Area/ Zone	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		40.2	69.5	58.7	43.5	73.2	62.5
19:00 to 20:00 Hr		36.7	65.4	52.4	39.8	71.5	60.4
20:00 to 21:00 Hr		39.2	68.5	54.3	42.8	72.3	62.3
21:00 to 22:00 Hr		35.8	63.8	53.6	40.5	69.8	59.8
22:00 to 23:00 Hr		36.8	61.5	55.8	39.6	71.6	61.4
23:00 to 24:00 Hr		37.5	59.7	54.8	38.5	70.3	60.2

Location : C Dist Head Quarter Hospital Modipara	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		44.8	94.7	54.5	42.5	74.6	58.6
19:00 to 20:00 Hr		35.4	62.3	47.2	44.3	72.3	62.5
20:00 to 21:00 Hr		36.9	65.8	44.8	40.5	68.9	60.8
21:00 to 22:00 Hr		32.5	54.3	44.2	37.4	65.8	58.9
22:00 to 23:00 Hr		34.6	55.3	38.6	36.8	63.8	61.5
23:00 to 24:00 Hr		36.9	53.4	49.2	37.3	62.9	64.5

Location : D Bareipali	Area/ Zone	Normal Day (12.10.2017)			Deepawali day (19.10.2017)		
Time duration	Industrial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		35.8	70.3	63.0	40.9	78.4	70.0
19:00 to 20:00 Hr		37.4	68.5	62.0	42.5	74.7	68.0
20:00 to 21:00 Hr		36.7	68.7	58.0	38.7	70.4	62.0
21:00 to 22:00 Hr		40.5	64.8	52.0	42.4	68.5	60.0
22:00 to 23:00 Hr		36.2	52.5	47.0	41.9	66.7	56.0
23:00 to 24:00 Hr		32.3	51.3	40.0	39.8	64.5	56.0

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2017

Monitoring Location	Parameters monitored					
	Normal Day (12.10.2017)			Deepawali Day (19.10.2017)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1.Modipara	BDL	19.1	77	7.8	27.5	92
2.Ainthapalli	5.5	20.6	87	8.1	27.6	106
3.Golebazar	4.2	18.2	71	8.0	28.6	94
4.Bareipali	5.8	20.3	85	6.3	24.0	99
NAAQ Standards	80	80	100	80	80	100

• All values (24 hourly Average) are in µg/m³