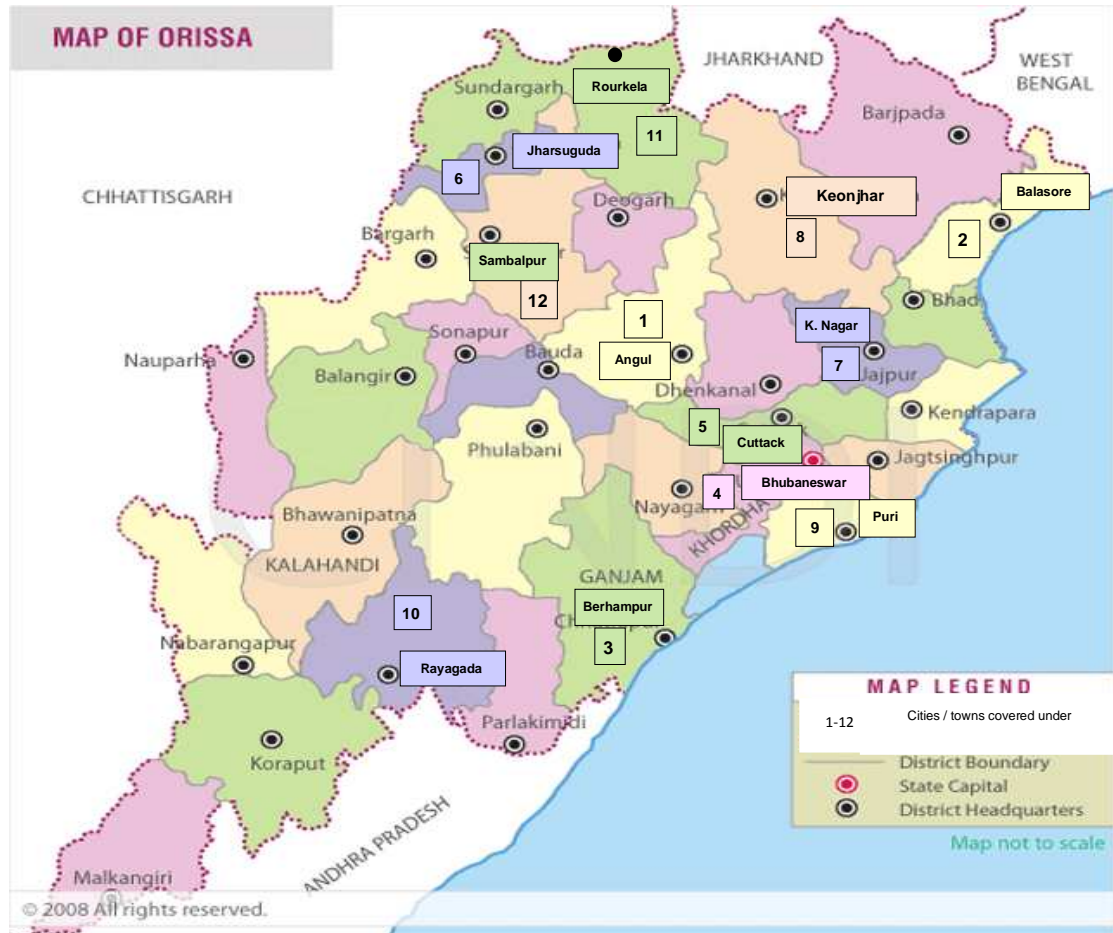


AMBIENT NOISE LEVEL AND AIR QUALITY DURING DEEPAWALI, 2015 OF MAJOR CITIES / TOWNS OF ODISHA



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)
80	80	100

AMBIENT NOISE LEVEL AND AIR QUALITY DURING DEEPAWALI,2015

OF MAJOR CITIES/TOWNS OF ODISHA

1. ANGUL

- 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) - Hakimpada

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2015:

Location : A Amalapada	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Residential						
18:00 to 19:00 Hr		50.8	82.4	62.2	49.8	116.8	81.5
19:00 to 20:00 Hr		49.9	84.6	61.4	52.0	114.7	83.9
20:00 to 21:00 Hr		50.9	78.4	57.7	50.3	114.6	84.7
21:00 to 22:00 Hr		42.5	76.7	51.0	46.1	102.8	73.3
22:00 to 23:00 Hr		42.1	73.3	51.1	39.9	93.4	61.9
23:00 to 24:00 Hr		39.6	76.5	46.1	40.5	78.8	50.0

Location : B Bazar Chhak	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Commercial						
18:00 to 19:00 Hr		54.8	93.2	72.0	62.7	111.1	83.5
19:00 to 20:00 Hr		56.1	102.7	77.6	62.3	109.9	84.9
20:00 to 21:00 Hr		55.4	97.3	76.3	52.7	113.6	84.0
21:00 to 22:00 Hr		59.2	98.5	74.5	50.2	114.2	86.8
22:00 to 23:00 Hr		46.8	89.1	66.7	46.1	113.2	88.4
23:00 to 24:00 Hr		46.9	86.2	67.9	44.0	114.1	85.8

Location : C District Head Quarter Hospital	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Silence						
18:00 to 19:00 Hr		49.0	87.5	62.0	47.6	94.2	69.1
19:00 to 20:00 Hr		50.7	89.7	65.0	51.1	99.7	68.5
20:00 to 21:00 Hr		48.3	81.8	58.0	50.2	95.0	69.4
21:00 to 22:00 Hr		44.5	91.5	59.0	50.1	112.3	76.7
22:00 to 23:00 Hr		46.4	78.1	59.7	43.2	94.3	66.3
23:00 to 24:00 Hr		44.1	69.7	53.7	38.7	97.2	68.3

Location : D Hakimpada	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Industrial						
18:00 to 19:00 Hr		48.7	88.0	67.2	53.7	110.3	76.3
19:00 to 20:00 Hr		50.2	86.5	66.7	80.3	113.2	83.1
20:00 to 21:00 Hr		48.5	90.5	67.3	52.6	92.5	68.4
21:00 to 22:00 Hr		45.9	86.3	62.6	48.1	87.9	66.0
22:00 to 23:00 Hr		45.9	82.5	64.0	38.8	93.9	62.9
23:00 to 24:00 Hr		41.2	85.4	63.3	46.3	82.5	59.2

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
Industrial Estate,Hakimpada	9.5	24.6	91	11.1	27.8	175
Amalapada	10.4	26.4	91	14.1	30.0	137
Bazar Chhak	9.2	29.2	96	13.8	31.6	
DistrictHead Quarter Hospital	11.2	26.1	78	14.0	29.4	158
NAAQ Standards	80	80	100	80	80	100

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

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, 2015:

Location : A Sahadevkhunta	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Residential	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		48.4	61.2	54.6	66.5	85.6	76.4
19:00 to 20:00 Hr		51.6	68.5	60.3	72.2	90.4	82.6
20:00 to 21:00 Hr		56.5	74.2	64.4	81.5	94.2	88.2
21:00 to 22:00 Hr		48.2	63.4	56.6	78.3	92.5	86.4
22:00 to 23:00 Hr		42.4	60.6	52.2	70.6	87.4	77.6
23:00 to 24:00 Hr		40.5	54.2	46.4	61.5	76.2	68.2

Location : B Motiganj	Area/ Zone	Normal Day(05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Commercial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		55.5	70.2	62.4	75.4	90.6	82.2
19:00 to 20:00 Hr		61.2	77.4	68.6	78.2	96.2	86.4
20:00 to 21:00 Hr		66.6	79.4	71.2	85.6	102.4	92.2
21:00 to 22:00 Hr		58.5	74.2	65.6	88.2	108.2	96.6
22:00 to 23:00 Hr		55.2	71.4	63.4	76.2	94.6	88.2
23:00 to 24:00 Hr		51.4	67.3	58.2	67.4	86.2	78.2

Location : C District Head Quarter Hospital	Area/ Zone	Normal Day(05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Silence	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		48.5	60.4	54.6	55.4	92.4	70.2
19:00 to 20:00 Hr		50.6	66.3	58.2	61.5	78.6	66.6
20:00 to 21:00 Hr		42.3	58.2	50.4	64.2	81.4	70.2
21:00 to 22:00 Hr		40.4	54.3	46.2	68.5	84.3	75.6
22:00 to 23:00 Hr		38.2	51.6	43.3	57.2	71.5	64.4
23:00 to 24:00 Hr		34.5	48.4	40.6	52.6	68.4	62.2

Location : D Balasore Industrial Estate	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
		Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration	Industrial						
18:00 to 19:00 Hr		52.2	68.4	60.6	58.4	74.2	66.4
19:00 to 20:00 Hr		55.4	72.4	64.4	62.6	79.4	70.2
20:00 to 21:00 Hr		61.6	77.2	68.3	65.2	86.2	74.6
21:00 to 22:00 Hr		53.4	70.4	61.6	60.6	76.4	68.4
22:00 to 23:00 Hr		50.2	67.2	58.6	58.4	73.2	66.4
23:00 to 24:00 Hr		46.4	64.6	55.4	54.2	70.6	62.3

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters Monitored					
	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀
Sahadevkhunta (Residential)	BDL	11.2	77	BDL	13.8	119
Motiganj bazar (Commercial)	BDL	14.4	92	4.9	18.5	137
Dist. HQ Hospital (Silence)	BDL	9.9	68	BDL	10.5	81
NAAQ Standards	80	80	100	80	80	100
<ul style="list-style-type: none"> All values(24 hourly Avg) are in µg/m³ 						

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, 2015:

Location : A Brahmanagar	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
		Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration	Residential						
18:00 to 19:00 Hr		42.3	70.0	61.2	61.9	81.1	73.9
19:00 to 20:00 Hr		54.1	87.1	68.0	73.2	93.7	75.8
20:00 to 21:00 Hr		42.2	75.7	68.8	61.2	108.0	81.3
21:00 to 22:00 Hr		42.1	60.0	53.8	66.4	105.1	79.3
22:00 to 23:00 Hr		39.5	55.3	54.8	51.2	101.4	59.8
23:00 to 24:00 Hr		46.1	50.5	49.7	38.0	74.3	55.7

Location : B Girija Market square	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
		Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration	Commercial						
18:00 to 19:00 Hr		65.4	88.8	76.0	81.3	103.4	84.6
19:00 to 20:00 Hr		63.2	95.3	78.4	86.4	116.5	91.0
20:00 to 21:00 Hr		65.8	92.8	76.7	85.8	107.6	91.5
21:00 to 22:00 Hr		64.4	88.4	79.6	84.5	115.9	93.8
22:00 to 23:00 Hr		63.6	87.3	75.0	72.7	111.6	87.1
23:00 to 24:00 Hr		40.3	88.6	70.4	68.3	96.7	71.5

Location : C MKCG Medical College Hospital Campus	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
Time duration	Silence	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		55.9	87.7	71.6	72.1	89.2	79.1
19:00 to 20:00 Hr		42.9	82.3	62.4	72.3	97.1	78.2
20:00 to 21:00 Hr		48.2	66.5	53.9	60.6	72.1	63.0
21:00 to 22:00 Hr		46.7	62.7	53.1	65.5	89.5	65.8
22:00 to 23:00 Hr		42.9	61.9	48.8	54.0	82.4	61.5
23:00 to 24:00 Hr		36.3	67.4	51.2	44.7	77.6	59.7

Location : D Industrial Estate, Ankuli	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
Time duration	Industrial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		63.5	83.0	71.4	60.6	72.1	63.0
19:00 to 20:00 Hr		51.1	71.6	62.1	55.3	111.5	65.6
20:00 to 21:00 Hr		50.3	75.8	60.2	53.6	108.0	64.0
21:00 to 22:00 Hr		47.5	80.2	63.9	56.1	110.0	65.4
22:00 to 23:00 Hr		47.0	75.9	54.4	55.4	82.4	61.2
23:00 to 24:00 Hr		39.5	71.3	46.2	54.6	77.6	54.8

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters Monitored					
	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
	SO ₂	NO ₂	PM ₁₀	SO ₂	NO ₂	PM ₁₀
Bramhanagar (Residential Area)	BDL	17.7	95	16.1	31.9	274
Girija market Square(Commercial Area)	BDL	24.7	117	32.1	45.9	332
MKCG Medical College & Hospital(Silence Area)	BDL	15.0	96	16.6	28.6	236
Industrial Estate, Ankuli	BDL	19.6	144	27.5	56.1	313
NAAQ Standards	80	80	100	80	80	100
*All values(24 hourly Avg) are in µg/m ³						

4. BHUBANESWAR

- Latitude & Longitude : 20⁰16'48.2"N/85⁰48'46.2"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) - Lingaraj Area & 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, 2015:

Location: A Lingaraj Area	Area/ Zone	Normal day(05.11.2015)			Deepawali day(11.11.2015)		
Time duration	Residential	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		55.8	83.5	69.4	54.5	109.7	84.6
19:00 to 20:00 Hr		51.9	84.2	71.6	58.7	111.2	83.1
20:00 to 21:00 Hr		48.5	86.8	73.9	62.3	96.4	78.9
21:00 to 22:00 Hr		57.7	86.7	73.0	60.5	116.5	89.1
22:00 to 23:00 Hr		47.5	76.2	62.0	61.4	97.0	76.4
23:00 to 24:00 Hr		48.1	67.1	60.4	44.8	96.8	72.5

Location: A Nayapalli	Area/ Zone	Normal day(05.11.2015)			Deepawali day(11.11.2015)		
Time duration	Residential	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		51.6	78.4	67.5	52.0	95.6	70.9
19:00 to 20:00 Hr		49.9	83.4	67.5	55.5	114.6	86.1
20:00 to 21:00 Hr		56.6	84.4	74.2	57.4	97.1	74.9
21:00 to 22:00 Hr		53.9	79.8	70.2	56.4	94.8	76.5
22:00 to 23:00 Hr		50.7	69.9	58.2	52.2	92.3	72.5
23:00 to 24:00 Hr		49.7	69.7	56.5	44.3	83.8	71.3

Location: B Sahid Nagar	Area/ Zone	Normal day(05.11.2015)			Deepawali day(11.11.2015)		
Time duration	Commercial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		54.4	90.6	71.1	55.0	96.4	72.5
19:00 to 20:00 Hr		54.2	80.6	66.0	54.0	91.6	73.3
20:00 to 21:00 Hr		55.7	85.5	70.1	63.4	89.7	77.5
21:00 to 22:00 Hr		54.9	83.8	68.5	59.9	102.2	79.3
22:00 to 23:00 Hr		52.9	84.7	66.0	52.4	92.0	74.1
23:00 to 24:00 Hr		52.0	68.7	56.8	61.0	93.1	76.8

Location: C Capital Hospital	Area/ Zone	Normal day(05.11.2015)			Deepawali day(11.11.2015)		
Time duration	Silence	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		50.4	84.4	53.6	52.6	89.3	66.1
19:00 to 20:00 Hr		48.3	63.8	55.1	50.6	79.2	62.5
20:00 to 21:00 Hr		49.3	71.8	57.9	51.8	87.1	65.3
21:00 to 22:00 Hr		47.8	88.8	69.4	52.4	80.3	63.5
22:00 to 23:00 Hr		46.4	62.9	49.4	54.5	84.0	68.1
23:00 to 24:00 Hr		46.9	60.7	50.9	54.3	99.8	73.3

Location: D Rasulgarh	Area/ Zone	Normal day(05.11.2015)			Deepawali day(11.11.2015)		
Time duration	Industrial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		64.0	94.8	73.2	59.6	92.7	73.9
19:00 to 20:00 Hr		60.2	88.7	76.7	58.3	94.2	72.2
20:00 to 21:00 Hr		59.9	88.0	77.0	59.6	102.0	83.4
21:00 to 22:00 Hr		59.1	87.5	78.1	62.2	98.8	77.7
22:00 to 23:00 Hr		55.0	76.8	65.8	55.8	106.4	78.9
23:00 to 24:00 Hr		49.5	74.3	64.4	57.6	90.1	71.7

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day			Deepawali day		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
Office Building	BDL	20.1	147	17.7	25.8	511
IRC Nayapalli	BDL	17.3	94	18.2	37.5	700
Capital Police Station	BDL	18.9	59	19.1	34.3	328
Patrapada	BDL	13.3	79	7.6	21.5	220
Chandrasekharpur	BDL	16.2	93	9.3	21	
NAAQ Standards	80	80	100	80	80	100

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

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) - Khapurja Industrial Estate

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2015:

Location : A Suryavihar Link Road	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		46.4	83.8	63.4	49.8	89.9	68.5
19:00 to 20:00 Hr		52.7	98.8	74.9	51.1	117.2	81.7
20:00 to 21:00 Hr		45.8	83.1	65.1	46.6	111.5	80.7
21:00 to 22:00 Hr		63.0	93.5	77.3	54.1	103	75.6
22:00 to 23:00 Hr		-	-	-	45.0	93.1	68.5
23:00 to 24:00 Hr		39.6	90.6	67.6	36.8	92.3	70.3

Location : B Badambadi	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		59.4	100.8	87.6	56.7	103.4	79.6
19:00 to 20:00 Hr		43.3	93.2	73.3	54.6	97.5	75.9
20:00 to 21:00 Hr		-	-	-	55.9	96.8	72.4
21:00 to 22:00 Hr		53.4	100.0	85.0	54.5	107.9	83.6
22:00 to 23:00 Hr		58.2	106.1	79.3	49.7	93.8	76.8
23:00 to 24:00 Hr		50.7	90.9	71.9	38.5	95.3	75.8

Location : C SCB Medical College & Hospital	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Silence						
18:00 to 19:00 Hr		49.7	90.9	67.6	45.1	104.3	72.8
19:00 to 20:00 Hr		50.8	97.8	74.2	49.3	105.7	74.9
20:00 to 21:00 Hr		45.5	88.4	66.4	-	-	-
21:00 to 22:00 Hr		39.6	94.9	62.4	55.4	109.3	81.7
22:00 to 23:00 Hr		41.5	92.8	64.8	51.0	90.5	71.4
23:00 to 24:00 Hr		42.3	80.4	62.8	54.1	89.7	72.7

Location : D Khapuria Industrial Estate	Area/ Zone	Normal Day(05.11.2015)			Deepawali Day(11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Industrial						
18:00 to 19:00 Hr		42.5	97.1	71.2	53.3	110.8	86.4
19:00 to 20:00 Hr		61.7	96.2	78.3	-	-	-
20:00 to 21:00 Hr		45.8	83.1	65.1	48.3	101.8	77.8
21:00 to 22:00 Hr		44.7	86.7	65.6	-	-	-
22:00 to 23:00 Hr		46.9	88.3	69.3	35.5	86.1	69.5
23:00 to 24:00 Hr		53.2	93.3	68.1	42.5	97.1	71.2

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1.On the Roof of PHD Office near Barabati Stadium	BDL	30	55	6.0	32.3	186
2.On the Roof of Regional Office Building,Suryavihar	BDL	28	63	5.7	33.1	236
3.On The Roof of Traffic Tower Badambadi	4.4	35.4	92	10.5	43.8	335
NAAQ Standards	80	80	100	80	80	100
<ul style="list-style-type: none"> All values (24 hourly Average) are in µg/m³ 						

6. JHARSUGUDA

- Latitude & Longitude :21⁰85'N/84⁰30'E
- Climate/Meteorology: Dry
- Population :97,730(as per 2011 census)
- Major land use: Residential & Commercial

DESCRIPTION OF MONITORING AREA:

1. Location-A (**Residential Zone**)- Near PurunaBasti
2. Location-B (**Commercial Zone**)- Near JhandaChowk
3. Location-C (**Silence Zone**)-Near District Head Quarter Hospital
4. Location-D (**Industrial Zone**)- Near Bombay Chowk

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2015:

Location : A Near PurunaBasti	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Residential						
18:00 to 19:00 Hr		59.6	71.2	65.4	73.2	89.4	80.8
19:00 to 20:00 Hr		64.0	75.0	69.6	76.0	87.2	82.0
20:00 to 21:00 Hr		58.4	66.4	61.8	81.4	98.8	89.4
21:00 to 22:00 Hr		53.8	69.8	63.4	72.8	92.6	82.0
22:00 to 23:00 Hr		50.0	56.0	52.1	66.6	81.4	77.6
23:00 to 24:00 Hr		49.5	54.6	51.0	63.2	72.8	68.0

Location : B Near JhandaChowk	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Commercial						
18:00 to 19:00 Hr		61.4	74.6	68.8	69.7	89.2	77.0
19:00 to 20:00 Hr		58.6	71.3	65.1	74.2	109.4	79.6
20:00 to 21:00 Hr		41.3	97.0	73.4	58.8	96.2	81.8
21:00 to 22:00 Hr		47.2	59.8	66.1	61.2	78.8	84.4
22:00 to 23:00 Hr		53.6	57.0	63.8	66.4	86.2	93.0
23:00 to 24:00 Hr		58.2	68.2	69.4	69.6	91.0	82.2

Location : C District Head Quarter Hospital	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Silence						
18:00 to 19:00 Hr		43.6	51.0	48.6	58.0	62.2	60.4
19:00 to 20:00 Hr		46.4	56.8	49.0	51.6	59.8	55.6
20:00 to 21:00 Hr		48.3	54.6	51.8	56.2	60.6	58.8
21:00 to 22:00 Hr		44.2	59.6	53.4	59.4	67.4	62.4
22:00 to 23:00 Hr		40.6	61.0	56.2	47.0	62.2	55.0
23:00 to 24:00 Hr		38.4	46.2	45.0	42.8	60.0	51.2

Location : D Near Bombay Chowk	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Industrial						
18:00 to 19:00 Hr		67.0	78.2	72.2	71.0	80.0	76.4
19:00 to 20:00 Hr		72.5	79.0	75.0	76.4	83.8	79.8
20:00 to 21:00 Hr		74.4	84.4	79.4	72.2	86.4	77.0
21:00 to 22:00 Hr		70.0	79.8	74.6	75.8	79.0	76.4
22:00 to 23:00 Hr		68.8	77.0	72.4	69.5	81.2	75.6
23:00 to 24:00 Hr		56.0	73.8	66.6	61.4	84.8	72.4

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
On the roof of Regional Office,SPCBJharsuguda	12.2	21.7	75	26.7	35.5	118
NAAQ Standards	80	80	100	80	80	100

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

7.KALINGANAGAR

- Latitude & Longitude :20⁰ 94' 60" N, 86⁰ 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)-Umapada
- 2 Location-B (Commercial Zone)-DhabalagiriChhak
- 3 Location-C (Silence Zone)-Inside the premises of CHC, Jajpur road (Silence area)
4. Location-D (Industrial Zone)-Near Tata gate No.3,KNIC, Kalinganagar

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2015:

Location : A Umapada	Area/ Zone	Normal Day(.5.11.2015)			Deepawali Day(11.11.2015)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		49.0	94.5	73.2	50.5	93.6	80.0
19:00 to 20:00 Hr		53.8	82.8	67.6	55.2	89.2	62.4
20:00 to 21:00 Hr		52.2	94.5	72.5	58.9	94.8	83.3
21:00 to 22:00 Hr		41.0	73.8	59.1	53.2	91.9	74.1
22:00 to 23:00 Hr		44.0	90.0	77.9	41.0	88.8	61.0
23:00 to 24:00 Hr		39.1	89.5	63.8	42.2	90.2	67.6

Location : B DhabalagiriChhak	Area/ Zone	Normal Day(.5.11.2015)			Deepawali Day(11.11.2015)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		49.5	100.6	72.6	57.6	99.5	75.1
19:00 to 20:00 Hr		48.0	102.5	73.7	59.4	93.0	72.1
20:00 to 21:00 Hr		58.6	101.2	76.3	59.7	118.0	87.2
21:00 to 22:00 Hr		47.3	100.9	75.7	56.9	96.7	73.3
22:00 to 23:00 Hr		39.8	81.9	62.2	47.6	100.1	71.1
23:00 to 24:00 Hr		41.6	99.8	72.2	58.4	96.3	74.3

Location : C Inside the premises of CHC, Jajpur road	Area/ Zone	Normal Day(.5.11.2015)			Deepawali Day(11.11.2015)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		38.6	73.7	53.4	48.6	85.2	61.5
19:00 to 20:00 Hr		37.0	78.1	55.3	50.3	87.3	55.0
20:00 to 21:00 Hr		39.8	85.4	60.9	49.8	85.0	68.0
21:00 to 22:00 Hr		40.6	84.3	58.4	46.8	79.5	57.2
22:00 to 23:00 Hr		36.7	72.3	55.4	40.8	83.2	42.1
23:00 to 24:00 Hr		38.5	77.1	54.3	37.4	84.1	59.3

Location : D Near Tata gate No.3 KNIC, Kalinganagar	Area/ Zone	Normal Day(.5.11.2015)			Deepawali Day(11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Industrial						
18:00 to 19:00 Hr		44.2	80.2	57.2	47.1	83.6	61.9
19:00 to 20:00 Hr		45.2	78.5	61.2	45.3	79.4	56.4
20:00 to 21:00 Hr		51.2	84.2	59.8	55.9	95.8	79.1
21:00 to 22:00 Hr		52.9	83.5	64.1	54.3	91.2	70.0
22:00 to 23:00 Hr		55.4	82.4	58.4	47.2	75.4	57.3
23:00 to 24:00 Hr		36.2	67.2	47.1	48.8	78.6	54.3

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
Sapagadia	BDL	9.6	78	8.5	13.5	223
Near Bus Stand bypass	BDL	9.7	105	11.3	15.9	293
Inside premises of CHC	BDL	9.3	58	10.1	14.1	245
Near Tata officers Guest House	BDL	9.9	152	BDL	14.0	263
NAAQ Standards	80	80	100	80	80	100

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

8.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)-Baniapatchowk
2. Location-B (Commercial Zone) -Punjabi Chowk
3. Location-C (Silence Zone)-Govt. Hospital

Noise Level during Deepawali festival, 2015:

Location : A Baniapatchowk	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		60.1	88.9	72.9	63.6	89.3	78.3
19:00 to 20:00 Hr		61.4	90.1	77.2	67.1	102.3	83.9
20:00 to 21:00 Hr		59.7	79.6	65.1	68.5	98.7	83.0
21:00 to 22:00 Hr		58.6	82.6	64.8	69.8	103.9	84.2
22:00 to 23:00 Hr		48.3	81.3	53.0	54.5	81.4	59.8
23:00 to 24:00 Hr		49.8	78.3	52.4	57.8	80.6	58.3

Location :B Punjabi Chowk	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		61.5	94.2	82.9	65.6	88.3	76.9
19:00 to 20:00 Hr		60.7	86.4	79.7	72.8	101.3	89.3
20:00 to 21:00 Hr		61.2	84.6	72.1	54.6	74.8	60.5
21:00 to 22:00 Hr		62.8	82.4	73.6	68.9	99.6	84.3
22:00 to 23:00 Hr		54.3	78.5	62.8	50.3	69.5	54.0
23:00 to 24:00 Hr		51.3	76.2	59.5	51.8	75.1	59.6

Location : C Govt. Hospital	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		57.2	72.5	64.5	61.4	80.6	76.3
19:00 to 20:00 Hr		59.1	76.7	66.9	59.4	78.5	72.6
20:00 to 21:00 Hr		52.8	75.8	56.8	58.5	76.8	71.2
21:00 to 22:00 Hr		48.3	73.2	54.8	51.6	79.5	68.6
22:00 to 23:00 Hr		43.2	70.5	49.4	48.2	63.5	55.5
23:00 to 24:00 Hr		45.1	69.4	48.4	47.1	58.7	52.3

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1.Regional Office Building	BDL	14.0	70	BDL	21.5	237
2.Punjabi Chowk	BDL	17.0	91	BDL	22.2	226
NAAQ Standards	80	80	100	80	80	100
<ul style="list-style-type: none"> All values (24 hourly Average) are in µg/m³ 						

9.PURI

- Latitude & Longitude :19⁰16'17.1'' N/ 85⁰49'57.4'' 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, 2015:

Location: A Kumutisahi, Old Sadarlane,Puri	Area/ Zone	Normal day(05.11.2015)			Deepawali day(11.11.2015)		
		Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration	Residential						
18:00 to 19:00 Hr		43.4	84.3	61.8	53.9	125.0	98.2
19:00 to 20:00 Hr		42.6	71.0	58.4	87.0	122.1	94.1
20:00 to 21:00 Hr		42.7	87.2	69.9	57.7	105.3	83.4
21:00 to 22:00 Hr		43.2	74.8	60.7	57.1	101.5	79.1
22:00 to 23:00 Hr		45.3	77.6	59.1	50.1	104.4	84.0
23:00 to 24:00 Hr		44.8	75.2	60.1	49.0	111.6	86.9

Location: B Gundicha Temple, Puri	Area/ Zone	Normal day(05.11.2015)			Deepawali day(11.11.2015)		
Time duration	Commercial	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		57.3	83.0	69.3	62.0	100.1	80.2
19:00 to 20:00 Hr		56.4	88.6	70.9	62.4	94.2	78.3
20:00 to 21:00 Hr		57.8	81.1	69.5	61.1	111.0	81.4
21:00 to 22:00 Hr		56.9	87.0	68.0	61.2	102.2	83.7
22:00 to 23:00 Hr		52.6	77.2	61.3	50.2	91.6	71.0
23:00 to 24:00 Hr		43.2	76.7	61.7	46.3	86.9	65.1

Location: C District Head Quarter Hospital	Area/ Zone	Normal day(05.11.2015)			Deepawali day(11.11.2015)		
Time duration	Silence	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr		56.8	75.4	64.5	54.9	86.1	70.2
19:00 to 20:00 Hr		56.4	73.2	63.0	57.7	85.2	70.7
20:00 to 21:00 Hr		54.5	77.8	61.8	57.4	88.2	71.1
21:00 to 22:00 Hr		55.8	88.6	65.8	55.9	99.8	75.1
22:00 to 23:00 Hr		45.2	66.9	52.2	52.3	85.4	68.2
23:00 to 24:00 Hr		45.3	80.9	64.7	51.8	77.4	65.2

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day			Deepawali day		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
Sadar Police station	BDL	16.6	52	10.7	19.6	182
Town Police Station	BDL	17.1	61	10.0	19.6	119
NAAQ Standards	80	80	100	80	80	100
• All values (24 hourly Average) are in µg/m ³						

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)-Indiranagar
2. Location-B (Commercial Zone)-Main market
3. Location-C (Silence Zone)-District Head Quarter Hospital
4. Location-D(Industrial)-Tumbiguda

NOISE LEVEL DURING DEEPAWALI FESTIVAL, 2015:

Location : A Indiranagar	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		55.1	82.5	58.7	60.2	118.1	93.6
19:00 to 20:00 Hr		58.4	86.2	71.4	62.8	119.2	94.7
20:00 to 21:00 Hr		52.7	83.9	69.2	53.6	102.1	78.6
21:00 to 22:00 Hr		48.8	79.5	64.2	50.5	99.8	74.8
22:00 to 23:00 Hr		46.5	73.3	57.5	48.7	105.0	79.0
23:00 to 24:00 Hr		41.2	69.8	51.6	41.3	94.6	66.5

Location : B Main market	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		44.9	89.3	66.3	60.2	102.6	78.9
19:00 to 20:00 Hr		48.6	92.4	70.8	63.6	113.1	88.6
20:00 to 21:00 Hr		46.5	88.7	66.4	54.2	98.7	77.1
21:00 to 22:00 Hr		42.1	81.6	60.3	48.4	92.3	69.9
22:00 to 23:00 Hr		39.7	74.8	56.1	39.6	90.2	62.5
23:00 to 24:00 Hr		35.6	71.3	52.3	38.3	87.8	61.3

Location : C District Head Quarter Hospital	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		36.5	73.1	46.7	52.3	100.2	70.8
19:00 to 20:00 Hr		38.9	76.7	56.4	55.7	104.9	82.1
20:00 to 21:00 Hr		34.6	70.8	50.1	49.4	97.5	74.7
21:00 to 22:00 Hr		32.4	66.8	45.8	45.7	86.5	65.8
22:00 to 23:00 Hr		31.3	61.5	41.3	43.3	84.1	60.3
23:00 to 24:00 Hr		29.7	58.9	39.6	37.6	76.2	54.7

Location : D Tumbiguda	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Industrial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		48.7	88.3	65.9	57.3	118.0	89.3
19:00 to 20:00 Hr		50.2	89.8	67.6	58.5	117.2	91.7
20:00 to 21:00 Hr		46.4	82.6	62.3	51.4	100.7	75.4
21:00 to 22:00 Hr		43.7	79.1	58.4	43.9	97.5	69.2

22:00 to 23:00 Hr		41.5	76.9	54.1	40.0	92.3	65.6
23:00 to 24:00 Hr		40.3	72.7	51.5	38.9	88.4	63.9

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
On the roof of Regional office Building	4.7	23.8	28	12.8	29.4	71
NAAQ Standards	80	80	100	80	80	10ⁿ
<ul style="list-style-type: none"> All values (24 hourly Average) are in µg/m³ 						

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)- BisraChowk
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, 2015:

Location :A Sector-4	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
		L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
Time duration	Residential						
18:00 to 19:00 Hr		34.3	63.5	46.2	44.5	75.8	51.2
19:00 to 20:00 Hr		35.8	67.2	47.3	45.3	78.3	53.8
20:00 to 21:00 Hr		36.3	66.5	48.9	47.8	81.2	55.7
21:00 to 22:00 Hr		36.5	64.3	45.8	50.3	85.5	60.1
22:00 to 23:00 Hr		33.7	63.8	44.2	51.8	88.8	62.2
23:00 to 24:00 Hr		35.4	68.1	43.5	49.5	86.6	58.4

Location : B BisraChowk	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		64.3	105.3	78.8	71.1	110.3	79.6
19:00 to 20:00 Hr		65.3	102.5	79.6	72.5	110.8	80.3
20:00 to 21:00 Hr		66.1	105.8	80.3	74.4	111.5	85.3
21:00 to 22:00 Hr		64.3	106.4	80.6	75.8	109.9	82.3
22:00 to 23:00 Hr		65.8	107.3	81.2	73.2	108.8	81.5
23:00 to 24:00 Hr		62.3	99.7	78.3	70.6	105.6	78.9

Location : C IGH, Steel Township	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		34.4	55.2	39.4	35.5	58.3	46.2
19:00 to 20:00 Hr		35.0	56.3	42.2	36.8	59.5	47.3
20:00 to 21:00 Hr		36.3	58.8	43.5	37.3	61.3	48.5
21:00 to 22:00 Hr		34.2	57.2	44.3	38.8	62.1	49.3
22:00 to 23:00 Hr		33.3	56.3	42.1	36.2	59.9	46.2
23:00 to 24:00 Hr		32.8	54.2	40.2	32.1	55.4	45.5

Location : D In front of main gate of RSP(SAIL)	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Industrial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		63.3	105.2	75.5	63.4	105.3	72.5
19:00 to 20:00 Hr		63.8	105.6	75.3	63.8	105.8	75.3
20:00 to 21:00 Hr		64.7	106.3	76.2	64.2	106.4	78.8
21:00 to 22:00 Hr		65.5	106.8	76.8	65.3	106.9	79.3
22:00 to 23:00 Hr		65.2	107.1	76.9	65.5	104.4	79.8
23:00 to 24:00 Hr		64.2	105.5	75.8	62.3	104.6	76.4

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1.RO SPCB, Rourkela	8.2	14.5	103	17.1	24.3	443
2.IDL,Sonaparbat	11.4	21.7	111	13.3	24.2	449
3.DISIR, Rajgangpur	12.5	14.1	155	18.6	25.6	221
NAAQ Standards	80	80	100	80	80	100

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

12.SAMBALPUR

- Latitude & Longitude :20⁰47'N / 83⁰97' 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, Modipada

Noise Level during Deepawali festival, 2015:

Location : A Ainthapalli	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Residential	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		34.3	63.3	58.5	46.7	101.4	75.6
19:00 to 20:00 Hr		35.8	67.6	64.4	42.2	105.8	80.4
20:00 to 21:00 Hr		36.3	66.4	58.7	48.5	107.2	76.8
21:00 to 22:00 Hr		36.5	64.3	54.4	46.0	95.5	68.7
22:00 to 23:00 Hr		33.7	63.2	44.5	39.8	88.0	64.1
23:00 to 24:00 Hr		35.4	68.2	41.0	38.3	76.3	55.2

Location : B Goal Bazar Chowk	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Commercial	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		64.3	105.6	78.8	68.2	106.3	88.6
19:00 to 20:00 Hr		65.3	102.2	79.6	67.4	108.3	92.3
20:00 to 21:00 Hr		66.1	105.5	74.3	70.5	109.5	85.3
21:00 to 22:00 Hr		64.3	106.0	68.6	65.6	94.9	72.3
22:00 to 23:00 Hr		65.8	107.3	66.2	55.2	95.8	67.5
23:00 to 24:00 Hr		50.3	99.7	62.3	46.0	95.6	58.9

Location : C Dist H.Q Hospital Modopada	Area/ Zone	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
Time duration	Silence	L _{min}	L _{max}	Leq dB(A)	L _{min}	L _{max}	Leq dB(A)
18:00 to 19:00 Hr		36.2	59.3	48.5	40.6	84.3	58.2
19:00 to 20:00 Hr		35.0	57.3	44.2	42.4	91.5	62.3
20:00 to 21:00 Hr		38.4	58.6	43.4	38.2	85.3	56.5
21:00 to 22:00 Hr		34.4	55.2	42.1	39.1	79.1	49.3
22:00 to 23:00 Hr		33.0	52.4	38.4	37.6	70.9	44.2
23:00 to 24:00 Hr		32.2	54.5	38.3	36.4	67.4	40.5

AMBIENT AIR MONITORING DURING DEEPAWALI FESTIVAL, 2015

Monitoring Location	Parameters monitored					
	Normal Day (05.11.2015)			Deepawali day (11.11.2015)		
	SO ₂	NO _x	PM ₁₀	SO ₂	NO _x	PM ₁₀
1.Ainthapalli	4.3	20.8	75	8.2	24.0	92.7
2.Golebazar	4.8	18.0	83	8.0	25.3	96.7
3.Dist Head Quarter Hospital,Modipada	4.6	17.0	68	8.3	24.7	77.0
NAAQ Standards	80	80	100	80	80	100
• All values (24 hourly Average) are in µg/m ³						