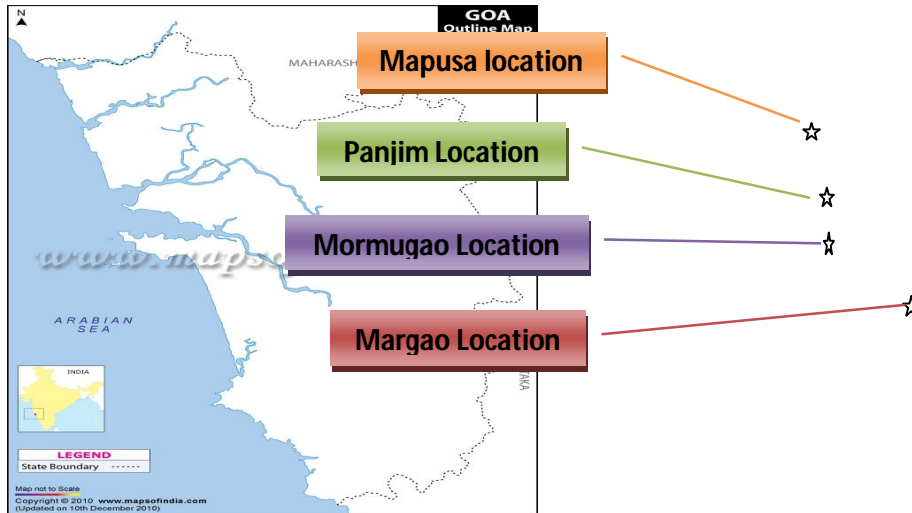


Noise Level Monitoring During Deepawali Festival, 2019



Noise level limits prescribed by CBCB

Category of Area/Zone	Limits in dB (A) Leq	
	Day Time (6.00 am – 10.00 pm)	Night Time (10.00 pm – 6.00 am)
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

***Note: Monitoring values found exceeding the permissible limit are marked red**

City :Mapusa

- **Latitude & Longitude** :15.60⁰N, 73.82⁰E
- **Climate/Meteorology**:Tropical Climate
- **Population**:39,989as per 2011 census*
- **Major land use**: Urban

Monitoring Location:Near Municipal Market

Description of monitoring site:Commercial

Activities around the monitoring location: Vehicle Movement

Data/Observations:

Noise level during Deepawali festival, 2019:

Location A: Mapusa	Normal Day (21-10-2019)			Deepawali Day (27-10-2019)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	42.3	98.0	73.9			
19:00 to 20:00 Hr	43.5	97.0	71.2			
20:00 to 21:00 Hr	40.5	88.4	67.6			
21:00 to 22:00 Hr	40.7	79.3	76.6			
22:00 to 23:00 Hr	48.5	80.2	61.6			
23:00 to 24:00 Hr	37.2	82.1	61.8			

#Data could not be retrieved on Deepawali day 27/10/2019 due to software problem (files corrupted)

City :Panjim

- **Latitude & Longitude :** 15⁰29'56' N, 73⁰49'40'E
- **Climate/Meteorology:** Tropical Monsoon Climate
- **Population:** 70,991 as per 2011 census*
- **Major land use:** Urban

Monitoring Location:Patto-Panjim**Description of monitoring site:** Commercial**Activities around the monitoring location:** Vehicle Movement, Rainfall observed during monitoring**Data/Observations:****Noise level during Deepawali festival, 2019:**

Location B : Panaji	Normal Day (21-10-2019)			Deepawali Day (27-10-2019)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	29.2	30.0	29.7	57.5	80.0	65.6
19:00 to 20:00 Hr	29.1	51.0	31.0	55.2	82.0	63.6
20:00 to 21:00 Hr	29.5	52.6	34.3	64.6	81.8	67.6
21:00 to 22:00 Hr	29.0	57.4	33.3	65.1	84.3	69.5
22:00 to 23:00 Hr	28.9	58.4	30.1	48.2	85.3	67.0
23:00 to 24:00 Hr	28.9	52.3	31.6	56.6	77.4	60.9

On Deepawali day i.e on 27th October, the noise levels were found to be exceeding permissible limit from 22:00 to 23:00 Hrs.

City : Vasco

- **Latitude & Longitude :** 15⁰23'53'N, 73⁰48'40'E
- **Climate/Meteorology:** Tropical Climate
- **Population:** 94393 as per 2011 census*
- **Major land use:** Urban

Monitoring Location: Fuse Call-Office, Vasco**Description of monitoring site:** Commercial**Activities around the monitoring location:** Vehicle Movement, Rainfall observed**Data/Observations:****Noise level during Deepawali festival, 2019:**

Location C : Vasco	Normal Day (21-10-2019)			Deepawali Day (27-10-2019)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	51.3	81.3	61.9	45.4	79.6	67.2
19:00 to 20:00 Hr	40.6	78.2	61.3	53.8	83.6	65.8
20:00 to 21:00 Hr	44.3	75.1	59.9	54.3	92.5	68.1
21:00 to 22:00 Hr	44.4	75.9	60.2	48.5	92.2	68.6
22:00 to 23:00 Hr	43.4	78.4	62.3	46.8	83.8	67.1
23:00 to 24:00 Hr	44.3	70.7	48.9	45.9	83.5	58.5

Results: On Deepawali day i.e on 27thOctober, the noise levels were found to be exceeding permissible limit from 22:00 to 23:00 Hrs.

. City :Margao

- **Latitude & Longitude :** 15⁰16'25'N, 73⁰57'29'E
- **Climate/Meteorology:** Tropical Monsoon Climate
- **Population:** 87,650as per 2011 census*
- **Major land use:** Urban

Monitoring Location: Municipality Garden

Description of Monitoring Site: Commercial

Activities around the monitoring location: Vehicle Movement

Data/Observations:

Noise level during Deepawali festival, 2019:

Location D : Margao	Normal Day (21-10-2019)			Deepawali Day (27-10-2019)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	42.3	87.1	70.8	31.4	103.2	69.6
19:00 to 20:00 Hr	45.7	85.8	68.3	39.7	84.3	67.8
20:00 to 21:00 Hr	39.0	81.7	66.6	40.7	94.3	70.8
21:00 to 22:00 Hr	39.4	83.9	68.4	53.8	83.6	65.8
22:00 to 23:00 Hr	37.8	80.6	62.1	40.1	85.6	60.4
23:00 to 24:00 Hr	33.5	76.4	59.3	37.4	80.7	55.8

Results: On Deepawali day i.e on 27th October, one file is corrupted from 21:00 to 22:00 Hrs.

As per the Noise Pollution (Regulation and Control) rules 2000, A person may, if the noise level exceeds the ambient noise standards by 10 dB(A) or more given in the corresponding columns against any area/zone [or, if there is a violation of any provision of these rules regarding restrictions imposed during night time], make a complaint to the authority.

* Census data source – www.citypopulation.de/india