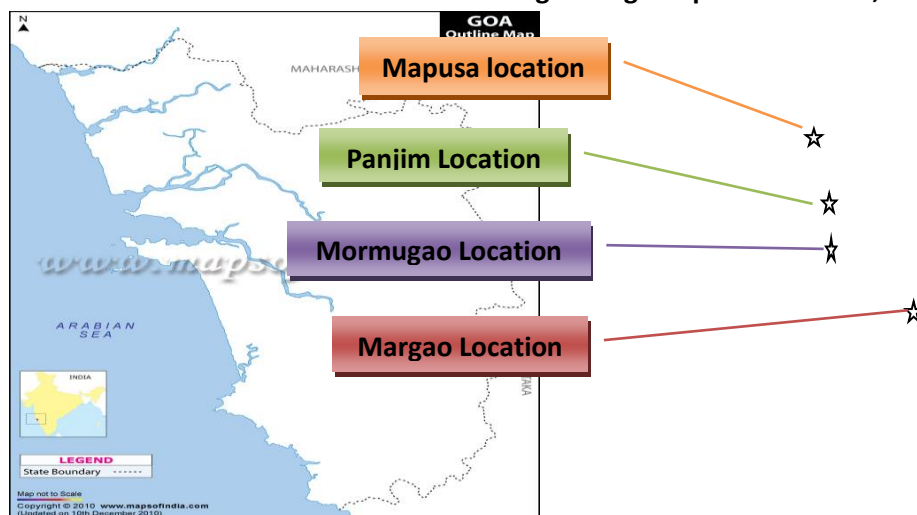


Noise Level Monitoring During Deepawali Festival, 2023



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

CITY : MAPUSA

- **Latitude & Longitude** :15.60⁰42'N, 73.82 ⁰56'E
- **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**:
 - **On Pre-Deepawali day (06-11-2023)** :-Medium to Light Vehicular Movement and honking.
 - **On Deepawali Day (12-11-2023)** : Heavy to Light Vehicular Movement ,Music Was Played (19:00hr to 21:00hr), Bursting of fire crackers .

Data/Observations:

Noise level during Deepawali festival, 2023:

Location A: Mapusa Area/Zone:Commercial	Pre-Deepawali day ((06-11-2023)			Deepawali Day (12-11-2023)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
Time duration						
18:00 to 19:00 Hr	61.6	83.4	57.3	61.4	91.5	65.5
19:00 to 20:00 Hr	56.9	84.5	56.2	60.5	107.9	66.9
20:00 to 21:00 Hr	55.6	91.6	55.4	57.8	101.7	70.7
21:00 to 22:00 Hr	51.2	84.5	54.6	57.5	101.1	64.2
22:00 to 23:00 Hr	48.9	88.5	53.5	54.0	95.9	59.3
23:00 to 24:00 Hr	49.5	69.0	54.3	52.1	93.2	58.6

CITY :PANJIM

- **Latitude & Longitude** : 15°29'56' N, 73°49'40'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:

- **On Pre-Deepawali day (06-11-2023)** : Heavy to Light Vehicular Movement, honking, vehicles parking area nearby .
- **On Deepawali Day (12-11-2023)**: Heavy to Light Vehicular Movement ,honking, parking area nearby Bursting of fire crackers .

Data/Observations:

Noise level during Deepawali festival, 2023:

Location B : Panaji Zone :commercial	Pre-Deepawali day (06-11-2023)			On Deepawali Day (12-11-2023)		
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	53.9	79.5	61.2	51.3	81.1	63.4
19:00 to 20:00 Hr	50.9	85.9	60.4	51.1	117.5	88.1
20:00 to 21:00 Hr	47.2	80.5	58.8	49.8	104.2	71.8
21:00 to 22:00 Hr	44.2	71.2	54.4	48.0	113.1	85.7
22:00 to 23:00 Hr	44.5	69.1	53.7	47.6	113.9	84.8
23:00 to 24:00 Hr	42.1	73.9	52.6	47.1	83.6	54.9

CITY : VASCO

- **Latitude & Longitude** : 15°23'53'N, 73°48'40'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

- **On Pre-Deepawali day (06-11-2023)**: Medium to Light Vehicular Movement.
- **On Deepawali Day (12-11-2023)** :Heavy to Light Vehicular Movement , honking ,Bursting of fire crackers

Data/Observations:

Noise level during Deepawali festival, 2023:

Location C : Vasco Area/Zone:Commercial	Pre-Deepawali day (06-11-2023)			On Deepawali Day (12-11-2023)		
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	62.3	113.9	64.8	64.4	98.0	67.0
19:00 to 20:00 Hr	64.1	82.4	61.8	63.6	103.3	69.7
20:00 to 21:00 Hr	63.8	94.9	66.9	63.5	115.8	75.3

21:00 to 22:00 Hr	62.3	85.3	59.8	63.3	117.1	78.8
22:00 to 23:00 Hr	59.7	84.5	57.1	61.8	119.4	76.8
23:00 to 24:00 Hr	59.3	85.5	57.9	58.7	104.4	62.4

CITY : MARGAO

- **Latitude & Longitude** : 15°16'25'N, 73°57'29'E
- **Climate/Meteorology**: Tropical Monsoon Climate
- **Population**: 87,650 as per 2011 census*
- **Major land use**: Urban
- **Monitoring Location**: Municipality Garden
- **Description of Monitoring Site**: Commercial
- **Activities around the monitoring location** :
 - **On Pre-Deepawali Day (06-11-2023)**: Medium to heavy Vehicular Movement. Honking
 - **On Deepawali Day (12-11-2023)** : Heavy to Light Vehicular Movement , Honking , Bursting of fire crackers.

Data/Observations:

Noise level during Deepawali festival, 2023:

Location D : Margao Area/Zone: Commercial	Pre-Deepawali day (06-11-2023)			On Deepawali Day (12-11-2023)		
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	39.9	87.6	61.7	67.9	94.7	64.5
19:00 to 20:00 Hr	30.0	78.2	60.4	67.7	105.9	67.8
20:00 to 21:00 Hr	34.8	76.1	56.9	66.1	105.0	67.9
21:00 to 22:00 Hr	35.2	82.0	61.3	66.9	109.5	66.9
22:00 to 23:00 Hr	30.3	79.0	58.0	66.0	95.9	64.7
23:00 to 24:00 Hr	26.3	82.8	54.6	65.3	110.1	64.3

Note: All values are in Leq dB(A)

The value reported in should not be compared with Prescribed Noise Level standards for designated areas as the time period for Measurement (6 p.m. to 12 Midnight) do not match with the period specified in the prescribed standard Day time(6 a.m. to 10 p.m.) and night time(10 p.m. to 6 a.m.).

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