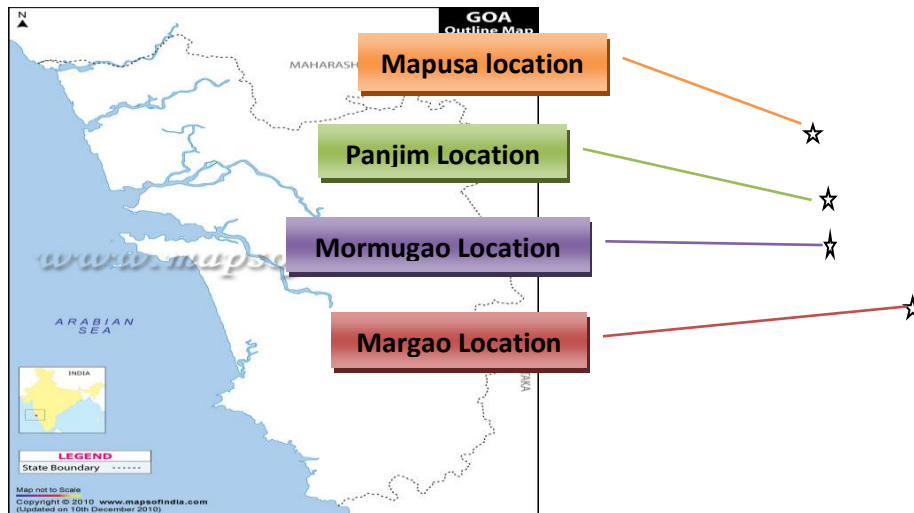


Noise Level Monitoring During Deepawali Festival, 2021



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** :15.60⁰N, 73.82 ⁰E
- **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 (29-10-2021)**Medium to Light Vehicular Movement,**On Deepawali Day (04-11-2021)** Heavy to Light Vehicular Movement ,Bursting of fire crackers light Rainfall was observed.

Data/Observations:

Noise level during Deepawali festival, 2021:

Location A: Mapusa	Pre-Deepawali day (29-10-2021)			Deepawali Day (04-11-2021)		
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	61.2	79.6	64.2	48.5	80.5	64.5
19:00 to 20:00 Hr	61.0	72.2	62.8	43.2	94.0	68.2
20:00 to 21:00 Hr	59.4	71.2	61.1	49.4	95.6	72.7
21:00 to 22:00 Hr	59.7	72.4	61.6	46.8	86.1	67.4
22:00 to 23:00 Hr	56.6	83.5	61.5	41.9	99.0	68.7
23:00 to 24:00 Hr	50.2	75.4	56.9	41.9	84.4	63.1

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 (29-10-2021)** Heavy to Light Vehicular Movement, On **Deepawali Day (04-11-2021)** Heavy to Light Vehicular Movement, Bursting of fire crackers light Rainfall was observed.

Data/Observations: Noise level during Deepawali festival, 2021:

Location B : Panaji	Pre-Deepawali day (29-10-2021)			On Deepawali Day (04-11-2021)		
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	59.8	82.5	61.9	43.4	83.1	63.8
19:00 to 20:00 Hr	67.4	83.7	65.8	42.7	90.0	67.9
20:00 to 21:00 Hr	63.2	90.8	66.1	45.9	94.7	67.2
21:00 to 22:00 Hr	39.2	83.6	53.2	55.3	83.7	68.0
22:00 to 23:00 Hr	38.2	83.3	48.0	43.7	73.8	49.6
23:00 to 24:00 Hr	40.4	76.2	52.2	42.3	73.5	56.3

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 (29-10-2021)** Heavy to Light Vehicular Movement, On **Deepawali Day (04-11-2021)** Heavy to Light Vehicular Movement Bursting of fire crackers light Rainfall & playing of music in temple Nearby (During Diwali day)

Data/Observations:**Noise level during Deepawali festival, 2021:**

Location C : Vasco	Pre-Deepawali day (29-10-2021)			On Deepawali Day (04-11-2021)		
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	38.3	77.6	61.0	42.4	74.3	62.8
19:00 to 20:00 Hr	39.5	80.4	61.4	41.2	88.4	73.1
20:00 to 21:00 Hr	38.7	88.8	65.3	43.6	93.0	66.3
21:00 to 22:00 Hr	40.7	81.1	58.2	56.5	85.5	65.5
22:00 to 23:00 Hr	36.5	93.0	60.6	56.2	100.9	72.0
23:00 to 24:00 Hr	50.2	76.3	55.2	47.8	86.9	67.5

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 (29-10-2021)** Medium to Light Vehicular Movement, On **Deepawali Day (04-11-2021)** Heavy to Light Vehicular Movement, Bursting of fire crackers, light Rainfall was observed.

Data/Observations:

Noise level during Deepawali festival, 2020:

Location D : Margao	Pre-Deepawali day (29-10-2021)			On Deepawali Day (04-11-2021)		
	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	56.2	74.2	62.1	58.1	93.7	62.0
19:00 to 20:00 Hr	56.8	74.8	65.5	50.9	95.7	58.6
20:00 to 21:00 Hr	58.6	72.6	63.7	43.2	91.2	68.6
21:00 to 22:00 Hr	59.7	72.9	61.8	55.8	93.9	67.3
22:00 to 23:00 Hr	59.6	75.5	61.3	52.7	94.4	65.0
23:00 to 24:00 Hr	59.8	76.5	61.6	41.4	91.5	62.2

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