

**STATE POLLUTION CONTROL BOARD-SIKKIM
SPECIAL MONITORING OF AMBIENT AIR QUALITY DURING DEEPAWALI 2020.**

AIR QUALITY INDEX

	NAME OF STATION	AIR QUALITY INDEX														
		07-11-2020	08-11-2020	09-11-2020	10-11-2020	11-11-2020	12-11-2020	13-11-2020	14-11-2020	15-11-2020	16-11-2020	17-11-2020	18-11-2020	19-11-2020	20-11-2020	21-11-2020
1.	DEORALI	47 (GOOD)	37 (Good)	35 (Good)	37 (Good)	36 (Good)	37 (Good)	29 (Good)	56 (satisfactory)	57 (Satisfactory)	42 (Good)	31 (Good)	30 (Good)	44 (Good)	64 (Satisfactory)	53 (Satisfactory)
2.	MG MARG	64 (Satisfactory)	43 (Good)	46 (Good)	44 (Good)	48 (Good)	67 (satisfactory)	66 (satisfactory)	41 (Good)	61 (satisfactory)	60 (satisfactory)	51 (satisfactory)	58 (satisfactory)	53 (satisfactory)	60 (satisfactory)	63 (satisfactory)

Good (0–50)	Minimal Impact	Poor (201–300)	Breathing discomfort to people on prolonged exposure
Satisfactory (51–100)	Minor breathing discomfort to sensitive people	Very Poor (301–400)	Respiratory illness to the people on prolonged exposure
Moderate (101–200)	Breathing discomfort to the people with lung, heart disease, children and older adults	Severe (>401)	Respiratory effects even ohealthy people

Ambient Air Quality monitoring data during Deepawali festival(07.11.2020 to 21.11.2020):**Data/Observation:**

Name of Location : Deorali, Forest Secretariat,Gangtok										
Date	Regulatory parameters					Propose New Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Metals in PM ₁₀			Metals/ Elements in PM _{2.5}		
					Pb (µg/m ³)	Ni (µg/m ³)	As (µg/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
National Ambient Air Quality Standards (NAAQS – 24 hrs)	80	80	100	60						
07.11.2020	6.5	13.52	47.16	-	Heavy metals not monitored as the required laboratory infrastructure is yet to be established.					
08.11.2020	7.0	16.53	37.25	-						
09.11.2020	7.0	16.61	34.79	-						
10.11.2020	5.1	16.02	28.91	22.10						
11.11.2020	5.6	20.52	33.0	21.43						
12.11.2020	8.7	19.44	30.55	22.20						
13.11.2020	11.52	15.01	29.0	17.39						
14.11.2020	10.6	13.69	36.37	33.52						
15.11.2020	9.8	15.46	38.99	34.16						
16.11.2020	10.9	15.86	41.86	22.58						
17.11.2020	5.2	12.30	31.14	17.69						
18.11.2020	6.2	10.57	30.40	17.61						
19.11.2020	5.6	13.70	38.33	26.29						
20.11.2020	6.5	11.27	47.78	38.33						
21.11.2020	7.7	10.33	37.73	31.50						

Interpretation of Ambient Air Quality Data/Result : All the data generated are within the prescribed standard given by Central Pollution Control Board – Delhi.

Any other Information pertains to the monitoring activity :

Note: Due to technical issue with the PM_{2.5} samplers the monitoring was delayed by three days between 07.11.2020 to 09.11.2020 and the data could not be generated.

Ambient Air Quality monitoring data during Deepawali Festival (07.11.2020 to 21.11.2020):

Data/Observation:

Name of location: M.G MARG (TITANIC PARK)										
Date	Regulatory parameters					Propose New Parameters				
	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Metals in PM ₁₀			Metals/ Elements in PM _{2.5}		
					Pb (µg/m ³)	Ni (µg/m ³)	As (µg/m ³)	Al (µg/m ³)	Ba (µg/m ³)	Fe (µg/m ³)
National Ambient Air Quality Standards (NAAQS – 24 hrs)	80	80	100	60						
07.11.2020	6.8	23.47	63.83	---	Heavy metals not monitored as the required laboratory infrastructure is yet to be established.					
08.11.2020	4.6	22.85	42.69	---						
09.11.2020	8.3	20.22	46.20	---						
10.11.2020	7.8	17.76	32.66	26.22						
11.11.2020	4.6	20.88	48.40	17.29						
12.11.2020	4.7	17.08	66.56	39.16						
13.11.2020	9.7	23.08	62.07	39.85						
14.11.2020	5.2	22.64	40.86	24.46						
15.11.2020	11	14.76	60.94	21.73						
16.11.2020	8.2	16.11	60.30	25.99						
17.11.2020	4.8	15.88	47.48	30.36						
18.11.2020	7.0	16.09	58.40	26.22						
19.11.2020	5.1	18.62	53.00	30.39						
20.11.2020	6.5	19.60	59.94	35.14						
21.11.2020	6.3	14.69	63.40	27.50						

Interpretation of Ambient Air Quality Data/Result : All the data generated are within the prescribed standard given by Central Pollution Control Board – Delhi.

Any other Information pertains to the monitoring activity :

Note: Due to technical issue with the PM_{2.5} samplers the monitoring was delayed by three days between 07.11.2020 to 09.11.2020 and the data could not be generated.