

MONTHLY AAQM DATA ALONG WITH AQI FOR 17 NAMP STATION

OCTOBER 2024

About National Air Quality Index

1. Air Quality Index is a tool for effective communication of air quality status to people in terms, which are easy to understand. It transforms complex air quality data of various pollutants into a single number (index value), nomenclature and color.
2. There are six AQI categories, namely Good, Satisfactory, Moderately polluted, Poor, Very Poor, and Severe. Each of these categories is decided based on ambient concentration values of air pollutants and their likely health impacts (known as health breakpoints). AQ sub-index and health breakpoints are evolved for eight pollutants (PM₁₀, PM_{2.5}, NO₂, SO₂, CO, O₃, NH₃, and Pb) for which short-term (up to 24-hours) National Ambient Air Quality Standards are prescribed.
3. Based on the measured ambient concentrations of a pollutant, sub-index is calculated, which is a linear function of concentration (e.g. the sub-index for PM_{2.5} will be 51 at concentration 31 µg/m³, 100 at concentration 60 µg/m³, and 75 at concentration of 45 µg/m³). The worst sub-index determines the overall AQI. AQI categories and health breakpoints for the eight pollutants are as follow:

Table 1 : AQI Category, Pollutants and Health Breakpoints								
AQI Category (Range)	PM ₁₀ 24-hr	PM _{2.5} 24-hr	NO ₂ 24-hr	O ₃ 8-hr	CO 8-hr (mg/m ³)	SO ₂ 24-hr	NH ₃ 24-hr	Pb 24-hr
Good (0-50)	0-50	0-30	0-40	0-50	0-1.0	0-40	0-200	0-0.5
Satisfactory (51-100)	51-100	31-60	41-80	51-100	1.1-2.0	41-80	201-400	0.5 –1.0
Moderate (101-200)	101-250	61-90	81-180	101-168	2.1- 10	81-380	401-800	1.1-2.0
Poor (201-300)	251-350	91-120	181-280	169-208	10-17	381-800	801-1200	2.1-3.0
Very poor (301-400)	351-430	121-250	281-400	209-748*	17-34	801-1600	1200-1800	3.1-3.5
Severe (401-500)	430 +	250+	400+	748+*	34+	1600+	1800+	3.5+

Table 2: AQI : Associated Health Impacts	
AQI	Associated Health Impacts
Severe (401-500)	SEVERE : May cause respiratory effects even on healthy people and serious health effect on people with lung/heart diseases
Very Poor (301-400)	VERY-POOR: May cause respiratory illness to the people on prolonged exposure. Effect may be more pronounced in people with lung and heart diseases
Poor (201-300)	POOR : May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease
Moderate (101-200)	MODERATE : May cause breathing discomfort to the people with lung disease such as asthma and discomfort to people with heart disease Children and older adults
Satisfactory (51-100)	SATISFACTORY : May cause minor breathing discomfort to sensitive people
Good (0-50)	GOOD : Minimal impact

Station: Near Old GSPCB office					City :Panaji						
Duration:-October - 2024											
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY	
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr	1-Hr	24-Hr			
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)									
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb			
1	01-10-2024	46	24	9	19	0.96	9.13	0.02	48	Good	
2	04-10-2024	49	24	10	19	0.83	9.44	0.01	49	Good	
3	08-10-2024	52	26	10	20	0.76	9.74	0.02	52	Satisfactory	
4	11-10-2024	67	31	11	20	0.89	10.66	0.02	67	Satisfactory	
5	15-10-2024	71	34	12	22	1.06	12.26	0.02	71	Satisfactory	
6	18-10-2024	78	38	10	21	0.87	13.48	0.02	78	Satisfactory	
7	22-10-2024	74	35	12	23	0.54	15.63	0.01	74	Satisfactory	
8	24-10-2024	66	32	11	19	0.73	18.69	0.05	66	Satisfactory	
9	25-10-2024	79	37	11	17	0.61	16.55	0.02	79	Satisfactory	
10	26-10-2024	73	34	10	16	0.53	17.16	0.07	73	Satisfactory	
11	27-10-2024	68	35	11	17	0.32	18.38	0.12	68	Satisfactory	
12	28-10-2024	82	43	11	17	0.76	17.46	0.14	82	Satisfactory	
13	29-10-2024	94	46	13	18	0.89	19.61	0.02	94	Satisfactory	
14	30-10-2024	134	72	16	24	1.33	21.75	0.07	140	Moderate	
15	31-10-2024	112	63	13	18	0.95	19.61	0.07	110	Moderate	

Station: Within the premises of Municipality building							City :Mapusa			
Duration:-October - 2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr	1-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	01-10-2024	51	25	11	19	0.95	11	0.01	51	Satisfactory
2	05-10-2024	52	26	11	19	0.86	12	0.02	52	Satisfactory
3	08-10-2024	56	28	11	19	0.71	12	0.01	56	Satisfactory
4	12-10-2024	61	28	14	20	0.93	13	0.01	61	Satisfactory
5	15-10-2024	66	33	15	22	1.02	13	0.02	66	Satisfactory
6	19-10-2024	73	35	12	19	0.69	16	0.01	73	Satisfactory
7	22-10-2024	64	32	13	20	0.82	14	0.01	64	Satisfactory
8	26-10-2024	86	44	14	19	0.97	16	0.02	86	Satisfactory
9	29-10-2024	96	52	14	17	1.03	17	0.02	96	Satisfactory

Station: Fuse Call Office					City: Vasco			
Duration:- October-2024								
Sr.No		Time Weighted Average (TWA)					AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3						
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃		
1	01-10-2024	38	31	2	6	10	52	Satisfactory
2	04-10-2024	21	18	2	7	10	30	Good
3	09-10-2024	21	10	2	8	10	21	Good
4	11-10-2024	83	13	2	13	10	83	Satisfactory
5	16-10-2024	26	6	2	6	10	26	Good
6	18-10-2024	17	6	2	5	10	17	Good
7	23-10-2024	47	26	41	5	10	51	Satisfactory
8	25-10-2024	50	43	13	30	10	72	Satisfactory
9	29-10-2024	17	6	13	34	10	43	Good

Station: MPT Quarters					City: Baina			
Duration:- October-2024								
Sr.No		Time Weighted Average (TWA)					AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3						
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	NH ₃		
1	01-10-2024	53	MB	2	7	10	53	Satisfactory
2	04-10-2024	37	MB	2	6	10	37	Good
3	09-10-2024	33	MB	2	7	10	33	Good
4	11-10-2024	52	MB	2	9	10	52	Satisfactory
5	16-10-2024	31	MB	2	5	10	31	Good
6	18-10-2024	23	MB	2	6	10	23	Good
7	23-10-2024	50	MB	6	5	10	50	Good
8	25-10-2024	49	MB	13	32	10	49	Good
9	29-10-2024	84	MB	10	5	10	84	Satisfactory

Station: Roof top of Municipal market						City: Ponda				
Duration:-October - 2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr	1-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	03-10-2024	43	22	8	17	0.62	9	0.02	43	Good
2	07-10-2024	45	22	9	18	0.53	10	0.01	45	Good
3	10-10-2024	47	24	9	18	0.49	10	0.02	47	Good
4	14-10-2024	58	26	9	19	0.67	11	0.02	58	Satisfactory
5	17-10-2024	64	33	10	19	0.40	13	0.01	64	Satisfactory
6	21-10-2024	56	28	8	18	0.31	14	0.01	56	Satisfactory
7	24-10-2024	68	32	11	19	0.45	14	0.01	68	Satisfactory
8	28-10-2024	61	34	11	17	0.57	14	0.02	61	Satisfactory
9	31-10-2024	89	45	14	20	1.24	14	0.02	89	Satisfactory

Station: Rooftop of Ravindra Bhavan Building									City:-Margao	
Duration:- October-2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	01-10-2024	38	19	9	16	0.29	9	0.02	38	Good
2	04-10-2024	41	20	9	16	0.34	10	0.02	41	Good
3	09-10-2024	42	20	9	16	0.41	10	0.02	42	Good
4	11-10-2024	45	22	9	17	0.31	11	0.01	45	Good
5	16-10-2024	49	25	10	15	0.27	11	0.02	49	Good
6	18-10-2024	56	27	11	17	0.52	13	0.01	56	Satisfactory
7	23-10-2024	51	25	10	15	0.35	11	0.01	51	Satisfactory
8	25-10-2024	65	32	9	17	0.19	13	0.01	65	Satisfactory
9	30-10-2024	91	43	10	16	1.03	14	0.02	91	Satisfactory

Station: Residence of Mr. Rama Naik, Assanora Junction City: Assanora										
Duration: October - 2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr	1-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	01-10-2024	39	20	9	17	0.43	10	0.01	39	Good
2	04-10-2024	41	21	10	17	0.37	10	0.02	41	Good
3	08-10-2024	43	22	10	17	0.41	10	0.01	43	Good
4	11-10-2024	51	25	10	19	0.28	11	0.02	51	Satisfactory
5	15-10-2024	57	26	8	17	0.18	12	0.02	57	Satisfactory
6	18-10-2024	64	31	11	18	0.34	13	0.02	64	Satisfactory
7	22-10-2024	59	29	10	17	0.25	14	0.01	59	Satisfactory
8	25-10-2024	69	33	9	17	0.21	16	0.02	69	Satisfactory
9	29-10-2024	75	37	10	16	0.36	15	0.01	75	Satisfactory

Station: Residence of Mr. Sagun Ramkrishna Fadte						City: Amona				
Duration:- - October - 2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr	1-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	03-10-2024	54	25	12	20	0.96	12	0.02	54	Satisfactory
2	07-10-2024	59	28	13	21	0.83	13	0.02	59	Satisfactory
3	10-10-2024	65	30	13	22	0.72	14	0.01	65	Satisfactory
4	14-10-2024	69	35	13	23	0.95	15	0.02	69	Satisfactory
5	17-10-2024	74	39	15	24	1.17	16	0.02	74	Satisfactory
6	21-10-2024	66	32	13	22	0.88	14	0.01	66	Satisfactory
7	24-10-2024	78	40	14	23	1.05	16	0.01	78	Satisfactory
8	28-10-2024	80	40	12	20	0.83	18	0.02	80	Satisfactory
9	31-10-2024	76	36	12	22	0.97	18	0.02	76	Satisfactory

Station: Municipality Building						City: Bicholim				
Duration:-October - 2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTy
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr	1-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	01-10-2024	38	19	8	16	0.37	10	0.01	38	Good
2	04-10-2024	39	20	8	16	0.41	10	0.02	39	Good
3	08-10-2024	42	20	9	16	0.28	11	0.01	42	Good
4	11-10-2024	54	24	9	17	0.35	12	0.02	54	Satisfactory
5	15-10-2024	60	28	10	17	0.22	12	0.02	60	Satisfactory
6	18-10-2024	67	33	10	18	0.49	13	0.02	67	Satisfactory
7	22-10-2024	59	28	11	18	0.38	13	0.01	59	Satisfactory
8	25-10-2024	74	36	11	16	0.27	14	0.02	74	Satisfactory
9	29-10-2024	68	33	11	17	0.56	14	0.02	68	Satisfactory

Station: Near Ajoba temple, Honda junction						City: Honda				
Duration:- October - 2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr	1-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	03-10-2024	40	20	9	17	0.28	10	0.02	40	Good
2	07-10-2024	45	22	9	18	0.33	10	0.02	45	Good
3	10-10-2024	46	23	9	18	0.25	11	0.01	46	Good
4	14-10-2024	55	25	10	18	0.37	12	0.02	55	Satisfactory
5	17-10-2024	59	27	10	17	0.42	13	0.02	59	Satisfactory
6	21-10-2024	65	32	10	19	0.25	14	0.01	65	Satisfactory
7	24-10-2024	61	30	11	19	0.39	16	0.02	61	Satisfactory
8	28-10-2024	69	34	10	20	0.44	17	0.01	69	Satisfactory
9	31-10-2024	73	37	10	18	0.53	13	0.02	73	Satisfactory

Station:- Usgao Junction									City:-Usgao	
Duration:- October-2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	03-10-2024	45	22	10	19	0.95	11	0.01	48	Good
2	07-10-2024	46	23	11	19	0.81	11	0.02	46	Good
3	10-10-2024	49	23	11	20	0.87	12	0.02	49	Good
4	14-10-2024	57	27	12	21	0.74	13	0.02	57	Satisfactory
5	17-10-2024	70	33	13	23	0.96	13	0.02	70	Satisfactory
6	21-10-2024	79	25	14	20	1.05	16	0.02	79	Satisfactory
7	24-10-2024	69	22	13	22	0.63	16	0.02	69	Satisfactory
8	28-10-2024	75	19	13	18	0.84	17	0.01	75	Satisfactory
9	31-10-2024	79	20	12	19	0.93	17	0.02	79	Satisfactory

Premises of Somnath English High School										
City:-Codli										
Duration:- October -2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	01-10-2024	39	19	9	18	0.28	9	0.01	39	Good
2	05-10-2024	42	20	10	18	0.35	9	0.02	42	Good
3	09-10-2024	42	21	10	18	0.26	10	0.02	42	Good
4	12-10-2024	48	24	11	20	0.22	11	0.01	48	Good
5	16-10-2024	57	27	11	17	0.37	13	0.02	57	Satisfactory
6	19-10-2024	63	31	13	18	0.20	12	0.02	63	Satisfactory
7	23-10-2024	53	25	12	18	0.31	13	0.01	53	Satisfactory
8	26-10-2024	67	35	11	17	0.44	13	0.02	67	Satisfactory
9	30.10.2024	75	39	11	15	0.38	16	0.02	75	Satisfactory

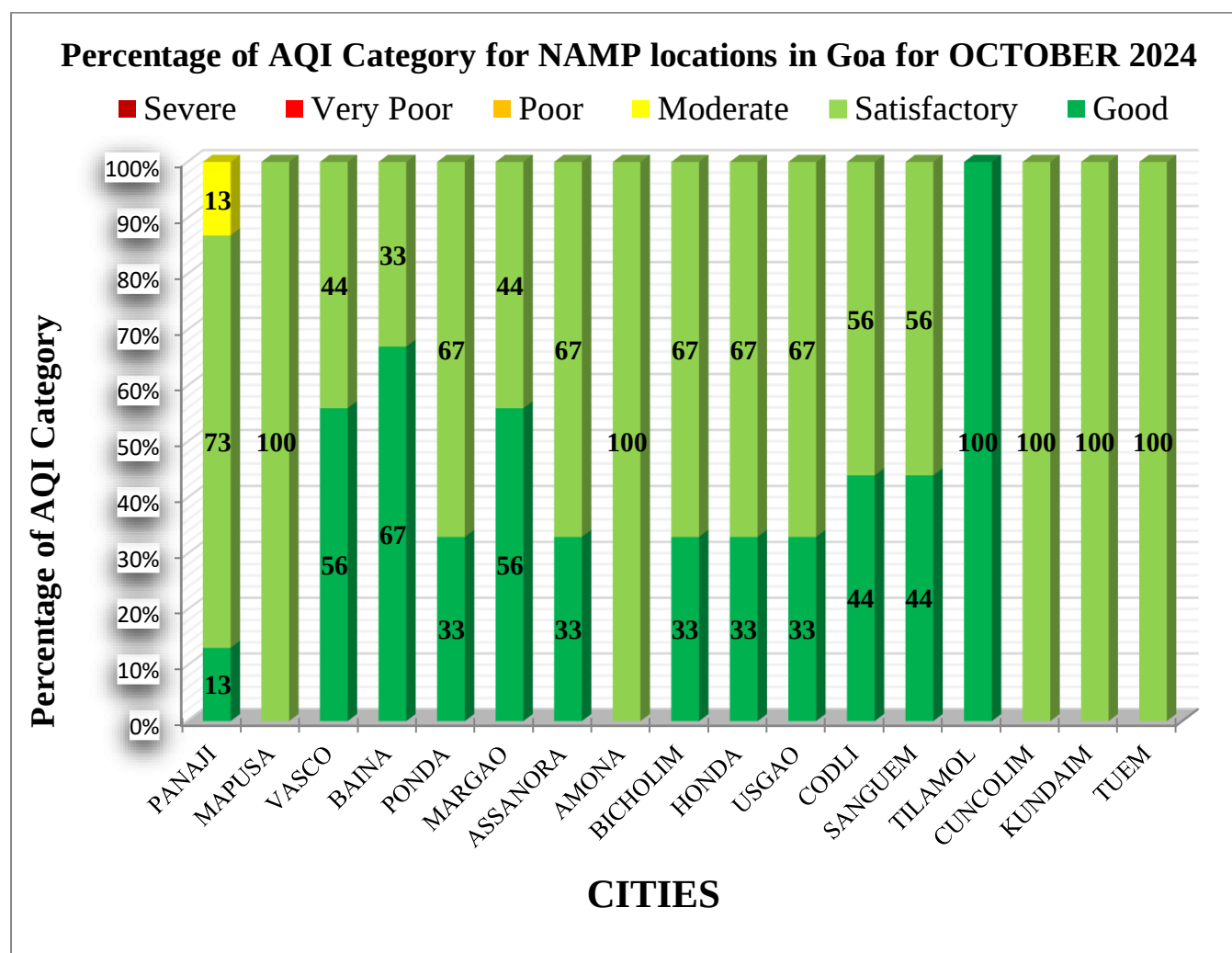
Station: Rooftop of Sanguem Municipality Building									City: Sanguem	
Duration:- October-2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	01-10-2024	37	19	9	16	0.37	9	0.01	37	Good
2	05-10-2024	39	19	9	17	0.42	9	0.02	39	Good
3	09-10-2024	40	20	9	17	0.24	9	0.01	40	Good
4	12-10-2024	47	23	11	17	0.33	11	0.02	47	Good
5	16-10-2024	52	26	10	18	0.19	12	0.02	52	Satisfactory
6	19-10-2024	60	29	11	17	0.53	13	0.02	60	Satisfactory
7	23-10-2024	54	26	10	16	0.25	14	0.01	54	Satisfactory
8	26-10-2024	68	32	10	17	0.31	15	0.01	68	Satisfactory
9	30-10-2024	73	35	11	16	0.47	17	0.02	73	Satisfactory

Station: Tilamol Junction							City: Tilamol			
Duration:- October-2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	01-10-2024	49	25	11	19	1.03	10	0.01	52	Satisfactory
2	05-10-2024	54	26	12	19	0.97	11	0.02	54	Satisfactory
3	09-10-2024	55	26	12	19	0.92	11	0.01	55	Satisfactory
4	12-10-2024	63	29	13	20	0.68	11	0.02	63	Satisfactory
5	16-10-2024	74	37	14	22	0.89	13	0.02	74	Satisfactory
29	19-10-2024	83	40	15	22	1.14	15	0.02	83	Satisfactory
7	23-10-2024	87	43	16	24	1.23	17	0.01	87	Satisfactory
8	26-10-2024	93	45	15	21	0.91	17	0.02	93	Satisfactory
9	30-10-2024	80	41	14	21	0.64	18	0.02	80	Satisfactory

Station: Rooftop of Power Station, Cuncolim Ind Estate								City: Cuncolim			
Duration:- October -2024											
Sr.No		Time Weighted Average (TWA)								AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3 & As which is in ng/m3)									
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	As	Pb		
1	01-10-2024	65	31	12	21	1.13	11.9	1.75	0.01	65	Satisfactory
2	05-10-2024	67	33	13	21	1.15	12.5	1.45	0.01	67	Satisfactory
3	09-10-2024	69	34	13	22	1.09	12.8	1.68	0.02	69	Satisfactory
4	12-10-2024	75	37	14	22	0.94	13.2	1.65	0.01	75	Satisfactory
5	16-10-2024	81	40	15	24	1.07	15.6	1.59	0.01	81	Satisfactory
6	19-10-2024	73	34	14	23	0.86	16.9	1.73	0.01	73	Satisfactory
7	23-10-2024	78	37	12	24	0.74	14.7	1.60	0.01	78	Satisfactory
8	26-10-2024	87	42	14	21	0.63	17.5	2.06	0.01	87	Satisfactory
9	30-10-2024	81	38	14	25	0.41	18.1	2.04	0.01	81	Satisfactory

Station: Near IDC Office					City: Kundaim					
Duration:- October - 2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr	1-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	03-10-2024	52	26	12	20	0.97	12	0.01	52	Satisfactory
2	07-10-2024	56	26	12	20	1.12	12	0.02	56	Satisfactory
3	10-10-2024	56	28	12	20	0.92	13	0.02	56	Satisfactory
4	14-10-2024	68	33	13	22	0.83	13	0.02	68	Satisfactory
5	17-10-2024	73	35	12	22	1.01	11	0.02	73	Satisfactory
6	21-10-2024	85	41	14	23	0.72	16	0.02	85	Satisfactory
7	24-10-2024	76	38	11	21	0.81	17	0.02	76	Satisfactory
8	28-10-2024	81	41	13	23	0.65	15	0.01	81	Satisfactory
9	31-10-2024	86	45	14	24	0.93	18	0.02	86	Satisfactory

Station: Near ESIC Hospital , Tuem Industrial Estate							City: Tuem			
Duration: October - 2024										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr	1-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	01-10-2024	51	26	11	19	1.06	12	0.010	53	Satisfactory
2	04-10-2024	55	26	12	20	1.12	12	0.010	56	Satisfactory
3	08-10-2024	56	27	12	21	1.07	12	0.010	56	Satisfactory
4	11-10-2024	62	30	12	22	0.93	13	0.020	62	Satisfactory
5	15-10-2024	73	34	13	23	1.03	14	0.010	73	Satisfactory
6	18-10-2024	69	32	12	21	0.73	13	0.020	69	Satisfactory
7	22-10-2024	77	38	13	24	0.68	15	0.010	77	Satisfactory
8	25-10-2024	86	42	11	22	0.56	15	0.010	86	Satisfactory
9	29-10-2024	91	45	12	18	0.71	17	0.020	91	Satisfactory



Results and Interpretation:

It is seen that during the month of October 2024, out of 17 locations AQI is -

Dominantly Good at 1 locations namely – Tilamol

Good to Satisfactory at 10 locations namely – Vasco, Baina, Ponda, Margao, Assanora, Bicholim, Honda, Usgao, Codli and Sanguem

Good to Satisfactory to Moderate at 1 location namely - Panaji

Dominantly Satisfactory at 5 locations namely – Mapusa, Amona, Cuncolim, Kundaim and Tuem

(Dominant refers to 75% and above)