

MONTHLY AAQM DATA ALONG WITH AQI FOR 18 NAMP STATION

MAY 2025

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:- - May - 2025										
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	02-05-2025	71	34	10	14	1.03	21	0.05	71	Satisfactory
2	06-05-2025	79	37	9	15	1.12	19	0.07	79	Satisfactory
3	09-05-2025	66	33	10	14	0.97	20	0.04	66	Satisfactory
4	13-05-2025	62	30	9	13	1.24	23	0.06	62	Satisfactory
5	16-05-2025	75	34	10	15	1.08	20	0.05	75	Satisfactory
6	20-05-2025	51	23	8	13	0.75	17	0.02	51	Satisfactory
7	23-05-2025	43	17	7	11	0.46	15	0.01	43	Good
8	27-05-2025	37	15	7	10	0.32	11	0.03	37	Good
9	30-05-2025	50	22	8	11	0.41	13	0.05	50	Good

Station: Within the premises of Municipality building									City :Mapusa	
Duration:-May - 2025										
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	02-05-2025	76	35	12	16	1.24	21	0.06	76	Satisfactory
2	06-05-2025	69	33	11	16	1.17	23	0.04	69	Satisfactory
3	09-05-2025	63	31	9	15	1.05	20	0.03	63	Satisfactory
4	13-05-2025	73	34	11	14	0.93	22	0.05	73	Satisfactory
5	16-05-2025	78	38	11	17	1.14	22	0.03	78	Satisfactory
6	20-05-2025	56	22	9	12	0.78	17	0.02	56	Satisfactory
7	23-05-2025	45	18	7	12	0.65	16	0.01	45	Good
8	27-05-2025	33	15	6	11	0.54	13	0.03	33	Good
9	30-05-2025	49	21	9	12	0.42	12	0.04	49	Good

Station: MPT Quarters							City: Baina	
Duration:- May-2025								
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	02-05-2025	54	18	2	3	35	54	Satisfactory
2	07-05-2025	42	19	2	3	10	42	Good
3	09-05-2025	68	21	4	3	10	68	Satisfactory
4	14-05-2025	37	6	2	8	22	37	Good
5	16-05-2025	41	13	2	8	24	41	Good
6	23-05-2025	84	16	2	3	46	84	Satisfactory
7	30-05-2025	93	29	2	3	84	93	Satisfactory

Station: Roof top of Municipal market									City: Ponda	
Duration:-May - 2025										
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	02-05-2025	78	37	10	14	1.12	23	0.05	78	Satisfactory
2	05-05-2025	86	40	12	17	0.94	21	0.07	86	Satisfactory
3	08-05-2025	64	31	10	14	1.23	21	0.04	64	Satisfactory
4	12-05-2025	80	38	12	15	0.87	22	0.08	80	Satisfactory
5	15-05-2025	74	35	11	15	1.06	20	0.09	74	Satisfactory
6	19-05-2025	60	26	8	13	0.79	19	0.03	60	Satisfactory
7	22-05-2025	46	23	8	12	0.65	18	0.02	46	Good
8	26-05-2025	32	14	7	11	0.52	15	0.01	32	Good
9	29-05-2025	38	17	6	11	0.38	13	0.03	38	Good

Station: Rooftop of Ravindra Bhavan Building									City:-Margao	
Duration:- May 2025										
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	03-05-2025	69	32	9	14	0.94	21	0.05	69	Satisfactory
2	07-05-2025	78	38	12	16	0.71	21	0.03	78	Satisfactory
3	10-05-2025	71	33	9	16	1.03	18	0.06	71	Satisfactory
4	14-05-2025	64	31	10	15	0.89	21	0.08	64	Satisfactory
5	17-05-2025	56	27	9	13	0.75	19	0.07	56	Satisfactory
6	21-05-2025	50	23	9	12	0.62	16	0.02	50	Good
7	24-05-2025	43	17	7	11	0.44	15	0.01	43	Good
8	28-05-2025	36	15	7	11	0.31	10	0.03	36	Good
9	31-05-2025	32	12	5	9	0.39	14	0.02	32	Good

Station: Residence of Mr. Rama Naik, Assanora Junction								City: Assanora		
Duration: May - 2025										
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	02-05-2025	65	32	8	14	0.89	21	0.04	65	Satisfactory
2	06-05-2025	73	34	9	15	1.07	19	0.03	73	Satisfactory
3	09-05-2025	63	29	10	14	1.13	20	0.02	63	Satisfactory
4	13-05-2025	70	33	9	12	1.24	23	0.04	70	Satisfactory
5	16-05-2025	75	36	11	15	0.96	21	0.06	75	Satisfactory
6	20-05-2025	49	23	7	11	0.55	16	0.01	49	Good
7	23-05-2025	43	17	6	11	0.72	16	0.02	43	Good
8	27-05-2025	30	14	5	10	0.43	13	0.01	30	Good
9	30-05-2025	39	15	7	11	0.38	11	0.03	39	Good

Station: Residence of Mr. Sagun Ramkrishna Fadte									City: Amona	
Duration:- -May - 2025										
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	02-05-2025	72	35	10	16	0.81	19	0.08	72	Satisfactory
2	05-05-2025	76	37	11	16	0.95	21	0.05	76	Satisfactory
3	08-05-2025	66	33	9	15	0.79	21	0.07	66	Satisfactory
4	12-05-2025	61	28	9	16	1.08	22	0.06	61	Satisfactory
5	15-05-2025	78	37	10	17	0.86	21	0.08	78	Satisfactory
6	19-05-2025	59	27	8	12	0.74	19	0.04	59	Satisfactory
7	22-05-2025	47	21	8	11	0.52	15	0.02	47	Good
8	26-05-2025	35	16	7	11	0.38	13	0.01	35	Good
9	29-05-2025	42	18	6	11	0.27	11	0.03	42	Good

Station: Municipality Building									City: Bicholim	
Duration: May - 2025										
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	02-05-2025	86	40	12	16	1.26	23	0.17	86	Satisfactory
2	06-05-2025	93	43	13	18	1.10	24	0.20	93	Satisfactory
3	09-05-2025	95	47	11	16	0.94	23	0.15	95	Satisfactory
4	13-05-2025	81	38	12	16	1.33	22	0.13	81	Satisfactory
5	16-05-2025	88	41	12	17	1.05	21	0.16	88	Satisfactory
6	20-05-2025	62	28	9	14	0.79	18	0.09	62	Satisfactory
7	23-05-2025	58	24	8	11	0.62	17	0.05	58	Satisfactory
8	27-05-2025	51	23	9	13	0.58	15	0.08	51	Satisfactory
9	30-05-2025	60	26	11	15	0.74	13	0.12	60	Satisfactory

Station: Near Ajoba temple, Honda junction									City: Honda	
Duration:- May - 2025										
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	02-05-2025	65	31	8	14	0.96	20	0.05	65	Satisfactory
2	05-05-2025	76	37	10	16	0.87	22	0.08	76	Satisfactory
3	08-05-2025	68	34	8	13	1.05	21	0.04	68	Satisfactory
4	12-05-2025	77	36	9	15	0.72	19	0.07	77	Satisfactory
5	15-05-2025	71	32	9	14	1.07	22	0.08	71	Satisfactory
6	19-05-2025	58	27	8	11	0.63	18	0.04	58	Satisfactory
7	22-05-2025	48	22	7	11	0.49	17	0.02	48	Good
8	26-05-2025	40	17	7	11	0.37	14	0.01	40	Good
9	29-05-2025	32	14	7	12	0.28	11	0.03	32	Good

Station:- Usgao Junction									City:-Usgao	
Duration:- May-2025										
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	02-05-2025	66	32	10	15	1.07	22	0.06	66	Satisfactory
2	05-05-2025	74	36	11	15	0.86	20	0.03	74	Satisfactory
3	08-05-2025	69	33	12	18	1.08	22	0.07	69	Satisfactory
4	12-05-2025	77	38	12	15	0.93	19	0.05	77	Satisfactory
5	15-05-2025	83	40	13	17	1.19	23	0.08	83	Satisfactory
6	19-05-2025	62	28	9	13	0.81	18	0.04	62	Satisfactory
7	22-05-2025	45	20	8	12	0.72	16	0.02	45	Good
8	26-05-2025	39	16	6	12	0.53	14	0.01	39	Good
9	29-05-2025	31	15	6	11	0.46	12	0.03	31	Good

Premises of Somnath English High School									City:-Codli	
Duration:- May -2025										
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	03-05-2025	67	33	8	14	0.95	21	0.06	67	Satisfactory
2	07-05-2025	72	36	11	14	1.12	22	0.03	72	Satisfactory
3	10-05-2025	65	30	10	14	0.87	22	0.08	65	Satisfactory
4	14-05-2025	69	33	9	13	1.06	19	0.04	69	Satisfactory
5	17-05-2025	58	28	8	12	0.74	17	0.02	58	Satisfactory
6	21-05-2025	52	21	7	11	0.52	16	0.04	52	Satisfactory
7	24-05-2025	38	15	7	11	0.45	13	0.02	38	Good
8	28-05-2025	33	14	6	10	0.27	11	0.03	33	Good
9	31-05-2025	41	17	6	12	0.38	15	0.02	41	Good

Station: Rooftop of Sanguem Municipality Building									City: Sanguem	
Duration:- May -2025										
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	03-05-2025	66	32	10	14	0.82	19	0.07	66	Satisfactory
2	07-05-2025	75	34	8	14	0.94	17	0.04	75	Satisfactory
3	10-05-2025	61	30	11	15	0.75	21	0.06	61	Satisfactory
4	14-05-2025	69	32	10	13	0.89	21	0.03	69	Satisfactory
5	17-05-2025	55	27	8	12	0.68	17	0.02	55	Satisfactory
6	21-05-2025	42	17	8	12	0.51	15	0.02	42	Good
7	24-05-2025	36	15	6	11	0.38	14	0.01	36	Good
8	28-05-2025	29	14	5	10	0.25	11	0.03	29	Good
9	31-05-2025	45	20	7	12	0.46	13	0.02	45	Good

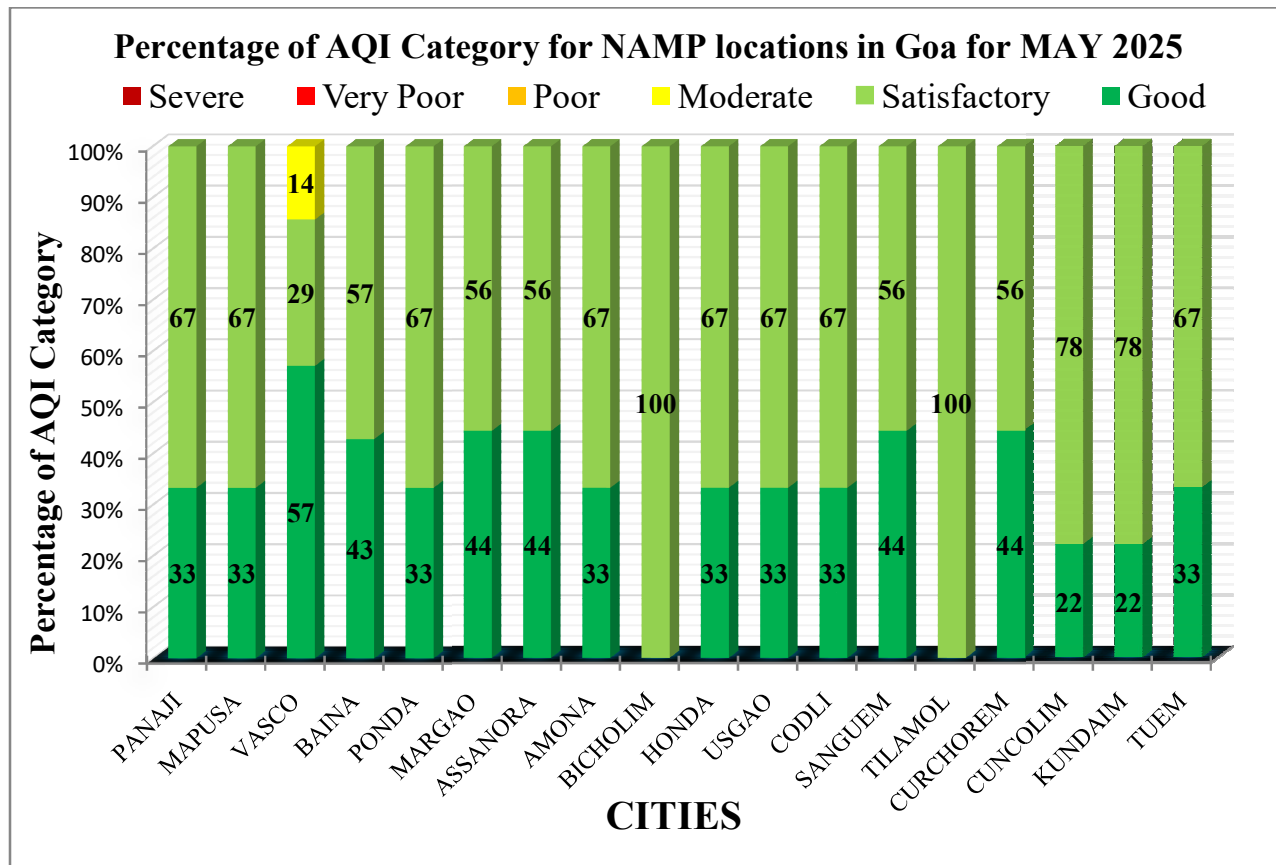
Station: Tilamol Junction								City: Tilamol		
Duration:- May-2025										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	03-05-2025	84	41	13	18	1.34	23	0.06	84	Satisfactory
2	07-05-2025	90	43	12	17	1.12	21	0.08	90	Satisfactory
3	10-05-2025	93	46	13	18	1.25	22	0.05	93	Satisfactory
4	14-05-2025	86	40	12	16	1.17	21	0.07	86	Satisfactory
5	17-05-2025	75	34	11	15	1.03	19	0.09	75	Satisfactory
6	21-05-2025	60	29	9	14	0.81	16	0.04	60	Satisfactory
7	24-05-2025	55	24	8	13	0.69	15	0.01	55	Satisfactory
8	28-05-2025	68	31	11	15	0.76	11	0.03	68	Satisfactory
9	31-05-2025	77	36	10	15	0.54	13	0.05	77	Satisfactory

Rooftop of Electricity panel room at GSUDA market									City:-Curchorem	
Duration:- May-2025										
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	03-05-2025	78	35	12	17	1.31	22	0.06	78	Satisfactory
2	07-05-2025	72	32	10	15	0.92	21	0.04	72	Satisfactory
3	10-05-2025	80	37	12	16	1.15	22	0.07	80	Satisfactory
4	14-05-2025	64	32	11	15	1.29	23	0.09	65	Satisfactory
5	17-05-2025	58	26	9	15	1.07	22	0.06	58	Satisfactory
6	21-05-2025	48	21	8	13	0.63	17	0.02	48	Good
7	24-05-2025	36	15	7	11	0.48	14	0.01	36	Good
8	28-05-2025	28	12	5	11	0.51	11	0.03	28	Good
9	31-05-2025	40	17	8	12	0.76	13	0.05	40	Good

Station: Rooftop of Power Station, Cuncolim Ind Estate										City: Cuncolim	
Duration:- May-2025											
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	03-05-2025	75	35	11	17	1.01	21	0.28	0.13	75	Satisfactory
2	07-05-2025	84	37	11	15	0.84	20	0.33	0.11	84	Satisfactory
3	10-05-2025	66	33	10	16	0.97	21	0.40	0.16	66	Satisfactory
4	14-05-2025	79	38	11	17	1.15	23	0.27	0.09	79	Satisfactory
5	17-05-2025	71	34	10	15	0.78	19	0.35	0.14	71	Satisfactory
6	21-05-2025	58	27	8	13	0.61	15	0.26	0.10	58	Satisfactory
7	24-05-2025	42	19	7	11	0.43	14	0.12	0.06	42	Good
8	28-05-2025	50	16	9	13	0.59	12	0.24	0.09	50	Good
9	31-05-2025	60	26	7	14	0.72	13	0.16	0.13	60	Satisfactory

Station: Near IDC Office									City: Kundaim	
Duration:- May - 2025										
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	02-05-2025	76	35	10	17	0.97	23	0.17	76	Satisfactory
2	05-05-2025	83	40	13	18	1.25	21	0.15	83	Satisfactory
3	08-05-2025	77	38	11	16	1.08	22	0.26	77	Satisfactory
4	12-05-2025	70	34	11	15	1.17	24	0.20	70	Satisfactory
5	15-05-2025	81	38	13	17	0.93	21	0.18	81	Satisfactory
6	19-05-2025	65	31	9	14	0.75	19	0.20	65	Satisfactory
7	22-05-2025	52	24	8	12	0.48	16	0.09	52	Satisfactory
8	26-05-2025	45	19	8	12	0.69	14	0.06	45	Good
9	29-05-2025	38	16	7	11	0.41	12	0.05	38	Good

Station: Near ESIC Hospital , Tuem Industrial Estate							City: Tuem			
Duration: May - 2025										
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	02-05-2025	75	33	10	17	0.96	23	0.060	75	Satisfactory
2	06-05-2025	83	37	9	14	1.18	20	0.077	83	Satisfactory
3	09-05-2025	77	36	11	16	0.75	23	0.043	77	Satisfactory
4	13-05-2025	68	32	10	15	1.22	21	0.053	68	Satisfactory
5	16-05-2025	72	35	9	14	0.87	22	0.077	72	Satisfactory
6	20-05-2025	54	23	8	11	0.73	18	0.023	54	Satisfactory
7	23-05-2025	44	19	8	12	0.59	16	0.013	44	Good
8	27-05-2025	36	15	7	11	0.42	15	0.027	36	Good
9	30-05-2025	42	18	7	11	0.37	13	0.043	42	Good



Results and Interpretation:

It is seen that during the month of May 2025, out of 18 locations AQI is -

Good to Satisfactory at 13 locations namely: Panaji, Mapusa, Baina, Ponda, Margao, Assanora, Amona, Honda, Usgao, Codli, Sanguem, Curchorem, and Tuem

Satisfactory at 4 locations namely: Bicholim, Tilamol, Cuncolim and Kundaim

Good to Satisfactory to Moderate at 1 location namely – Vasco

(Dominant refers to 75% and above)