

MONTHLY AAQM DATA ALONG WITH AQI FOR 18 NAMP STATION

JULY 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:- July - 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	01-07-2025	41	17	7	10	0.38	9	0.05	41	Good
2	04-07-2025	33	15	6	10	0.26	7	0.02	33	Good
3	08-07-2025	48	20	9	13	0.45	8	0.04	48	Good
4	11-07-2025	39	16	6	10	0.31	7	0.07	39	Good
5	15-07-2025	30	14	7	12	0.27	5	0.05	30	Good
6	18-07-2025	45	18	9	13	0.49	8	0.03	45	Good
7	22-07-2025	26	10	6	10	0.36	6	0.02	26	Good
8	25-07-2025	53	24	9	13	0.24	9	0.05	53	Satisfactory
9	29-07-2025	38	17	7	12	0.59	7	0.03	38	Good

Station: Within the premises of Municipality building									City :Mapusa	
Duration:- July - 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	01-07-2025	48	18	8	12	0.35	8	0.01	48	Good
2	04-07-2025	39	15	7	12	0.49	7	0.03	39	Good
3	08-07-2025	51	22	6	11	0.27	9	0.02	51	Satisfactory
4	11-07-2025	42	19	9	13	0.58	6	0.05	42	Good
5	15-07-2025	36	14	6	10	0.31	5	0.03	36	Good
6	18-07-2025	29	11	8	11	0.43	7	0.06	29	Good
7	22-07-2025	44	16	7	13	0.19	5	0.04	44	Good
8	25-07-2025	32	13	6	10	0.25	7	0.02	32	Good
9	29-07-2025	37	15	10	13	0.48	6	0.05	37	Good

Station: Fuse Call Office							City: Vasco	
Duration:- July-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	02-07-2025	27	15	7	3	10	27	Good
2	04-07-2025	33	31	2	3	25	52	Satisfactory
3	09-07-2025	44	20	2	3	10	44	Good
4	11-07-2025	35	25	2	3	27	42	Good
5	16-07-2025	62	30	2	3	28	62	Satisfactory
6	18-07-2025	81	26	4	3	25	81	Satisfactory
7	23-07-2025	77	MB	2	3	26	77	Satisfactory
8	25-07-2025	42	MB	2	3	21	42	Good
9	30-07-2025	39	29	2	14	10	48	Good

Station: MPT Quarters							City: Baina	
Duration:- July-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	02-07-2025	21	12	2	3	10	21	Good
2	04-07-2025	39	21	4	3	77	39	Good
3	09-07-2025	105	21	2	3	27	103	Moderate
4	11-07-2025	67	16	4	12	10	67	Satisfactory
5	16-07-2025	48	20	4	3	23	48	Good
6	18-07-2025	50	23	2	3	10	50	Good
7	23-07-2025	43	MB	2	3	78	43	Good
8	25-07-2025	47	MB	2	3	48	47	Good
9	30-07-2025	99	37	2	19	10	99	Satisfactory

Station: Roof top of Municipal market									City: Ponda	
Duration:-July - 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	03-07-2025	44	17	8	12	0.31	6	0.05	44	Good
2	07-07-2025	37	15	6	10	0.24	7	0.02	37	Good
3	10-07-2025	30	10	6	10	0.16	6	0.01	30	Good
4	14-07-2025	31	13	7	11	0.27	5	0.02	31	Good
5	17-07-2025	46	18	8	13	0.35	5	0.04	46	Good
6	21-07-2025	28	12	6	10	0.48	6	0.01	28	Good
7	24-07-2025	36	15	8	11	0.21	5	0.03	36	Good
8	28-07-2025	49	14	5	11	0.29	7	0.05	49	Good
9	31-07-2025	34	17	7	12	0.36	9	0.02	34	Good

Station: Rooftop of Ravindra Bhavan Building									City:-Margao	
Duration:- July 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	02-07-2025	33	14	7	10	0.21	7	0.02	33	Good
2	05-07-2025	42	17	8	12	0.37	6	0.01	42	Good
3	09-07-2025	26	13	5	11	0.29	7	0.04	26	Good
4	12-07-2025	36	15	6	11	0.18	6	0.02	36	Good
5	16-07-2025	49	21	8	13	0.13	5	0.01	49	Good
6	19-07-2025	27	9	6	10	0.17	7	0.01	27	Good
7	23-07-2025	33	13	4	10	0.25	5	0.03	33	Good
8	26-07-2025	46	20	7	11	0.34	7	0.02	46	Good
9	30-07-2025	37	16	6	12	0.19	9	0.04	37	Good

Station: Residence of Mr. Rama Naik, Assanora Junction									City: Assanora	
Duration: July - 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	01-07-2025	37	15	6	10	0.40	7	0.05	37	Good
2	04-07-2025	45	18	7	12	0.58	8	0.07	45	Good
3	08-07-2025	30	13	6	12	0.36	7	0.04	30	Good
4	11-07-2025	36	15	5	10	0.21	6	0.01	36	Good
5	15-07-2025	26	10	7	12	0.18	6	0.03	26	Good
6	18-07-2025	42	17	6	10	0.13	7	0.05	42	Good
7	22-07-2025	28	14	6	11	0.25	6	0.02	28	Good
8	25-07-2025	35	15	7	12	0.17	9	0.04	35	Good
9	29-07-2025	47	20	9	14	0.34	10	0.01	47	Good

Station: Residence of Mr. Sagun Ramkrishna Fadte									City: Amona	
Duration:- -July - 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	03-07-2025	33	15	5	10	0.34	7	0.04	33	Good
2	07-07-2025	46	18	7	13	0.52	9	0.07	46	Good
3	10-07-2025	28	12	7	11	0.23	6	0.05	28	Good
4	14-07-2025	36	15	6	10	0.47	9	0.03	36	Good
5	17-07-2025	25	11	8	11	0.15	5	0.01	25	Good
6	21-07-2025	30	13	6	11	0.28	5	0.04	30	Good
7	24-07-2025	44	18	8	12	0.36	8	0.02	44	Good
8	28-07-2025	38	15	6	10	0.19	5	0.05	38	Good
9	31-07-2025	31	17	8	13	0.24	7	0.03	31	Good

Station: Municipality Building									City: Bicholim	
Duration: July - 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	01-07-2025	64	25	11	14	0.51	11	0.08	64	Satisfactory
2	04-07-2025	57	23	8	12	0.72	9	0.13	57	Satisfactory
3	08-07-2025	71	30	11	15	0.69	10	0.10	71	Satisfactory
4	11-07-2025	61	27	9	12	0.58	9	0.15	61	Satisfactory
5	15-07-2025	53	21	11	14	0.43	6	0.06	53	Satisfactory
6	18-07-2025	70	29	12	15	0.37	5	0.08	70	Satisfactory
7	22-07-2025	64	25	10	14	0.62	7	0.11	64	Satisfactory
8	25-07-2025	50	24	10	15	0.49	8	0.09	50	Satisfactory
9	29-07-2025	73	30	9	13	0.31	7	0.12	73	Satisfactory

Station: Near Ajoba temple, Honda junction									City: Honda	
Duration:- July - 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	03-07-2025	35	12	6	9	0.31	8	0.02	35	Good
2	07-07-2025	43	16	7	11	0.27	7	0.05	43	Good
3	10-07-2025	27	13	6	11	0.24	6	0.04	27	Good
4	14-07-2025	39	18	7	12	0.38	7	0.02	39	Good
5	17-07-2025	31	14	8	10	0.16	6	0.06	31	Good
6	21-07-2025	24	10	6	9	0.35	5	0.03	24	Good
7	24-07-2025	40	15	7	12	0.23	8	0.05	40	Good
8	28-07-2025	47	18	7	11	0.42	5	0.02	47	Good
9	31-07-2025	35	14	6	11	0.19	9	0.04	35	Good

Station:- Usgao Junction									City:-Usgao	
Duration:- July-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	03-07-2025	40	19	7	12	0.45	7	0.05	40	Good
2	07-07-2025	33	14	6	10	0.26	9	0.02	33	Good
3	10-07-2025	37	13	6	10	0.37	7	0.04	37	Good
4	14-07-2025	28	11	5	11	0.41	6	0.01	28	Good
5	17-07-2025	44	18	5	10	0.19	4	0.03	44	Good
6	21-07-2025	31	12	7	11	0.12	5	0.05	31	Good
7	24-07-2025	47	21	7	11	0.30	5	0.02	47	Good
8	28-07-2025	39	15	6	9	0.24	6	0.04	39	Good
9	31-07-2025	31	13	9	13	0.36	6	0.03	31	Good

Premises of Somnath English High School									City:-Codli	
Duration:- July -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	02-07-2025	42	19	6	10	0.46	7	0.04	42	Good
2	05-07-2025	36	15	5	10	0.29	6	0.02	36	Good
3	09-07-2025	29	12	7	12	0.35	8	0.05	29	Good
4	12-07-2025	45	17	5	10	0.51	7	0.07	45	Good
5	16-07-2025	32	13	6	11	0.24	5	0.01	32	Good
6	19-07-2025	26	9	5	9	0.16	7	0.04	26	Good
7	23-07-2025	39	15	6	10	0.28	5	0.02	39	Good
8	26-07-2025	23	11	5	11	0.40	7	0.05	23	Good
9	30-07-2025	45	19	7	12	0.31	6	0.03	45	Good

Station: Rooftop of Sanguem Municipality Building									City: Sanguem	
Duration:- July -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	02-07-2025	30	13	7	11	0.35	9	0.02	30	Good
2	05-07-2025	43	16	7	12	0.49	7	0.04	43	Good
3	09-07-2025	37	15	6	11	0.21	9	0.03	37	Good
4	12-07-2025	26	10	7	12	0.58	6	0.05	29	Good
5	16-07-2025	45	18	9	12	0.37	8	0.02	45	Good
6	19-07-2025	32	14	6	10	0.16	6	0.06	32	Good
7	23-07-2025	27	9	5	10	0.24	4	0.03	27	Good
8	26-07-2025	42	11	5	12	0.31	7	0.05	42	Good
9	30-07-2025	33	13	7	11	0.19	8	0.02	33	Good

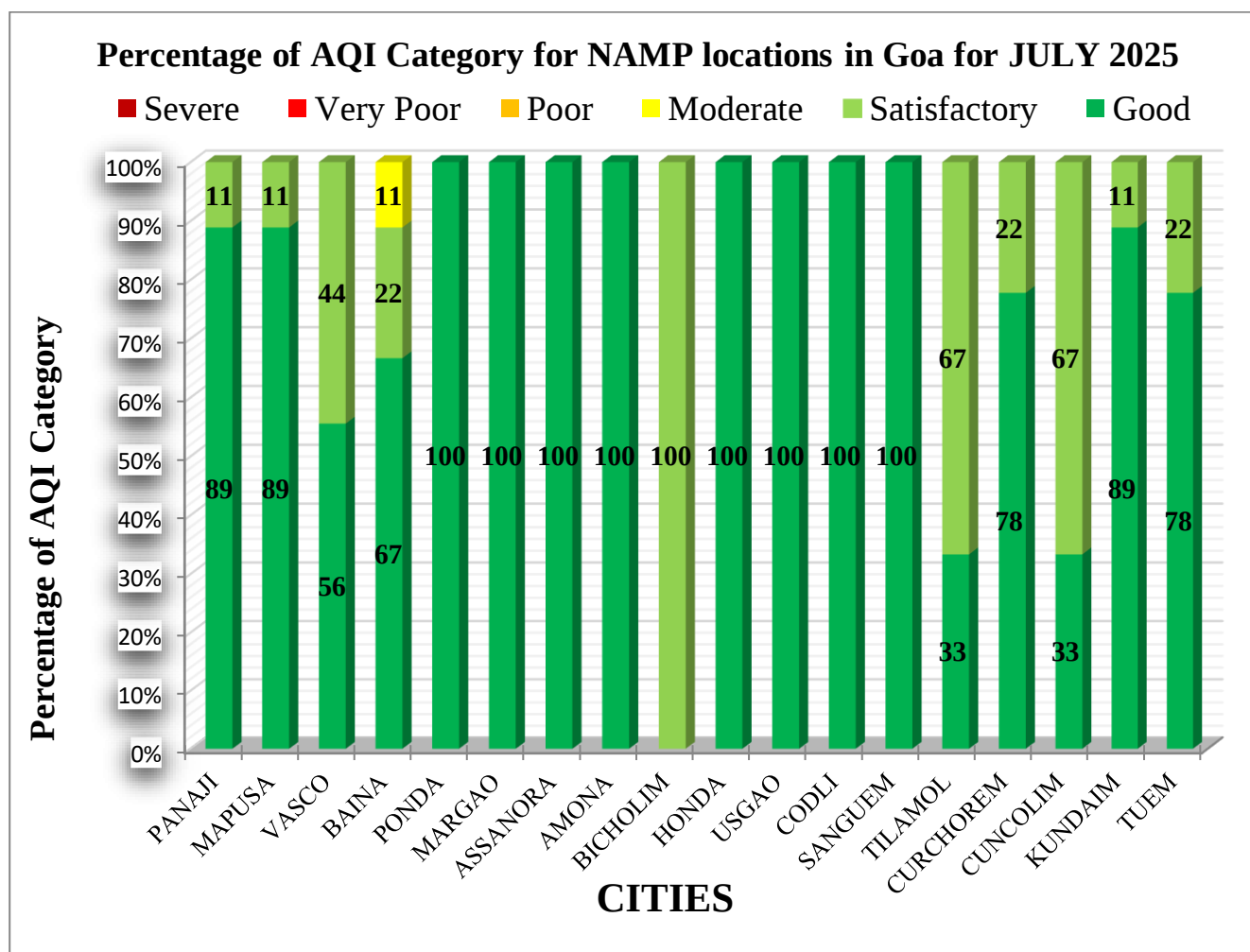
Station: Tilamol Junction									City: Tilamol	
Duration:- July-2025										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	02-07-2025	47	21	10	13	0.67	8	0.05	47	Good
2	05-07-2025	56	24	10	16	0.75	7	0.08	56	Satisfactory
3	09-07-2025	39	17	9	12	0.42	5	0.02	39	Good
4	12-07-2025	67	30	10	16	0.61	7	0.03	67	Satisfactory
5	16-07-2025	53	23	10	14	0.54	9	0.07	53	Satisfactory
6	19-07-2025	44	19	7	12	0.38	6	0.04	44	Good
7	23-07-2025	60	25	10	17	0.26	5	0.06	60	Satisfactory
8	26-07-2025	55	22	8	14	0.49	7	0.03	55	Satisfactory
9	30-07-2025	66	27	12	16	0.52	9	0.07	66	Satisfactory

Rooftop of Electricity panel room at GSUDA market									City:-Curchorem	
Duration:- July-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	02-07-2025	44	17	8	12	0.49	9	0.05	44	Good
2	05-07-2025	36	14	7	12	0.35	7	0.09	36	Good
3	09-07-2025	50	20	10	14	0.51	8	0.07	50	Good
4	12-07-2025	57	24	10	15	0.62	5	0.04	57	Satisfactory
5	16-07-2025	39	17	7	11	0.43	8	0.06	39	Good
6	19-07-2025	43	20	9	13	0.38	5	0.03	43	Good
7	23-07-2025	55	24	11	15	0.57	6	0.07	55	Satisfactory
8	26-07-2025	47	19	9	12	0.69	7	0.05	47	Good
9	30-07-2025	40	15	8	11	0.74	9	0.03	40	Good

Station: Rooftop of Power Station, Cuncolim Ind Estate										City: Cuncolim	
Duration:- July-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	02-07-2025	47	21	8	12	0.26	9	0.12	0.09	47	Good
2	05-07-2025	50	25	10	14	0.39	10	0.17	0.07	50	Satisfactory
3	09-07-2025	68	31	10	15	0.54	8	0.15	0.13	68	Satisfactory
4	12-07-2025	53	26	11	16	0.68	9	0.10	0.10	53	Satisfactory
5	16-07-2025	61	29	10	15	0.47	7	0.13	0.08	61	Satisfactory
6	19-07-2025	49	20	9	13	0.32	5	0.08	0.05	49	Good
7	23-07-2025	57	23	8	10	0.56	8	0.05	0.03	57	Satisfactory
8	26-07-2025	42	18	9	14	0.44	9	0.03	0.06	42	Good
9	30-07-2025	63	30	11	14	0.61	7	0.10	0.04	63	Satisfactory

Station: Near IDC Office									City: Kundaim	
Duration:- July - 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	03-07-2025	36	13	7	11	0.31	9	0.03	36	Good
2	07-07-2025	43	17	6	10	0.28	10	0.02	43	Good
3	10-07-2025	31	14	5	10	0.46	7	0.05	31	Good
4	14-07-2025	28	10	7	12	0.39	7	0.03	28	Good
5	17-07-2025	40	18	7	11	0.17	6	0.06	40	Good
6	21-07-2025	26	11	5	11	0.22	6	0.02	26	Good
7	24-07-2025	38	15	7	10	0.35	5	0.05	38	Good
8	28-07-2025	47	20	9	13	0.48	7	0.03	47	Good
9	31-07-2025	55	24	8	12	0.56	6	0.06	55	Satisfactory

Station: Near ESIC Hospital , Tuem Industrial Estate										City: Tuem
Duration: July - 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	01-07-2025	35	13	7	11	0.21	8	0.047	35	Good
2	04-07-2025	42	18	8	13	0.42	9	0.033	42	Good
3	08-07-2025	49	21	7	11	0.37	9	0.067	49	Good
4	11-07-2025	38	16	9	14	0.25	10	0.050	38	Good
5	15-07-2025	54	24	9	13	0.58	7	0.083	54	Satisfactory
6	18-07-2025	41	18	7	11	0.34	5	0.023	41	Good
7	22-07-2025	32	15	8	11	0.29	7	0.043	32	Good
8	25-07-2025	46	17	9	14	0.38	7	0.070	46	Good
9	29-07-2025	59	25	7	11	0.45	9	0.050	59	Satisfactory



Results and Interpretation:

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

Good at 14 locations namely:, Panaji, Mapusa, Ponda ,Margao, Assanora, Amona, Bicholim, Honda, Usgao, Codli, Sanguem, Curchorem, Kundaim and Tuem

Good to Satisfactory at 3 locations namely: Vasco, Tilamol and Cuncolim

Good to Satisfactory to Moderate at 1 location namely –Baina

(Dominant refers to 75% and above)