

MONTHLY AAQM DATA ALONG WITH
AQI FOR 18 NAMP STATION

AUGUST 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:- August - 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	01-08-2025	49	21	9	13	0.42	11	0.07	49	Good
2	05-08-2025	36	14	7	11	0.31	9	0.05	36	Good
3	08-08-2025	28	12	7	11	0.26	9	0.03	28	Good
4	12-08-2025	22	8	5	10	0.17	5	0.06	22	Good
5	14-08-2025	44	20	9	14	0.55	6	0.09	44	Good
6	19-08-2025	31	13	6	10	0.29	7	0.07	31	Good
7	22-08-2025	38	15	5	11	0.34	4	0.05	38	Good
8	26-08-2025	26	11	5	10	0.25	5	0.02	26	Good
9	29-08-2025	40	17	6	10	0.47	7	0.06	40	Good

Station: Within the premises of Municipality building							City :Mapusa			
Duration:-August - 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	01-08-2025	37	13	10	15	0.22	9	0.05	37	Good
2	05-08-2025	49	17	13	15	0.36	9	0.02	49	Good
3	08-08-2025	43	20	9	14	0.28	7	0.06	43	Good
4	12-08-2025	32	15	8	12	0.47	7	0.03	32	Good
5	16-08-2025	55	24	11	14	0.25	5	0.08	55	Satisfactory
6	19-08-2025	30	14	6	11	0.33	5	0.07	30	Good
7	22-08-2025	26	12	5	10	0.29	6	0.05	26	Good
8	26-08-2025	39	16	6	11	0.16	5	0.03	39	Good
9	29-08-2025	20	12	5	10	0.12	4	0.01	21	Good

Station: MPT Quarters						City: Baina		
Duration:- August-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	01-08-2025	60	19	2	4	10	60	Satisfactory
2	06-08-2025	60	19	2	11	10	60	Satisfactory
3	08-08-2025	47	34	2	6	28	57	Satisfactory
4	12-08-2025	216	27	7	3	10	177	Moderate
5	14-08-2025	44	34	2	3	10	57	Satisfactory
6	20-08-2025	124	45	2	3	10	116	Moderate
7	22-08-2025	81	28	2	3	40	81	Satisfactory
8	25-08-2025	56	13	4	3	10	56	Satisfactory
9	29-08-2025	27	17	2	3	28	28	Good

Station: Fuse Call Office					City: Vasco			
Duration:- August-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	01-08-2025	43	20	7	18	10	43	Good
2	06-08-2025	57	20	2	10	10	57	Satisfactory
3	08-08-2025	48	32	4	9	10	53	Satisfactory
4	12-08-2025	43	20	2	10	10	43	Good
5	14-08-2025	39	23	2	12	10	39	Good
6	20-08-2025	68	31	5	10	39	68	Satisfactory
7	22-08-2025	15	18	2	10	36	30	Good
8	25-08-2025	26	10	4	3	10	26	Good
9	29-08-2025	19	8	10	8	51	19	Good

Station: Roof top of Municipal market						City: Ponda				
Duration:-August - 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	04-08-2025	33	14	6	10	0.38	8	0.07	33	Good
2	07-08-2025	26	12	9	11	0.21	5	0.05	26	Good
3	11-08-2025	38	15	7	10	0.13	8	0.03	38	Good
4	14-08-2025	30	12	5	10	0.29	7	0.06	30	Good
5	18-08-2025	23	9	5	12	0.41	4	0.02	23	Good
6	21-08-2025	34	15	9	10	0.47	8	0.07	34	Good
7	25-08-2025	26	11	7	10	0.35	4	0.04	26	Good
8	29-08-2025	18	10	5	11	0.24	6	0.02	18	Good

Station: Rooftop of Ravindra Bhavan Building						City:-Margao				
Duration:- August 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	02-08-2025	41	17	7	12	0.28	8	0.03	41	Good
2	06-08-2025	29	12	7	11	0.31	9	0.05	29	Good
3	09-08-2025	36	15	5	10	0.37	8	0.02	36	Good
4	13-08-2025	26	11	8	11	0.15	6	0.04	26	Good
5	16-08-2025	24	8	5	11	0.24	6	0.03	24	Good
6	20-08-2025	18	7	5	10	0.12	4	0.01	18	Good
7	23-08-2025	27	12	6	11	0.29	7	0.06	27	Good
8	26-08-2025	33	15	5	10	0.17	5	0.01	33	Good
9	30-08-2025	35	17	6	11	0.25	7	0.02	35	Good

Station: Residence of Mr. Rama Naik, Assanora Junction City: Assanora										
Duration: August - 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	01-08-2025	33	12	5	10	0.25	8	0.02	33	Good
2	05-08-2025	25	11	5	10	0.42	9	0.05	25	Good
3	08-08-2025	42	15	8	12	0.17	8	0.01	42	Good
4	12-08-2025	28	13	6	10	0.14	5	0.03	28	Good
5	14-08-2025	20	9	5	10	0.36	6	0.06	20	Good
6	19-08-2025	35	14	7	12	0.29	5	0.04	35	Good
7	22-08-2025	39	17	5	10	0.16	4	0.07	39	Good
8	26-08-2025	25	12	5	10	0.31	6	0.01	25	Good
9	29-08-2025	36	13	5	11	0.19	5	0.03	36	Good

Station: Residence of Mr. Sagun Ramkrishna Fadte						City: Amona				
Duration:- -August - 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	04-08-2025	28	12	5	10	0.43	7	0.05	28	Good
2	07-08-2025	39	15	7	10	0.37	8	0.03	39	Good
3	11-08-2025	32	13	5	11	0.19	6	0.08	32	Good
4	14.08.2025	24	11	5	10	0.25	4	0.01	24	Good
5	18-08-2025	36	15	6	11	0.46	7	0.03	36	Good
6	21-08-2025	43	19	7	12	0.31	3	0.08	43	Good
7	25-08-2025	29	14	5	11	0.57	6	0.06	29	Good
8	29-08-2025	34	12	5	11	0.23	6	0.03	34	Good

Station: Municipality Building					City: Bicholim					
Duration: August - 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	01-08-2025	67	28	12	14	0.46	10	0.16	67	Satisfactory
2	05-08-2025	56	24	9	13	0.53	11	0.20	56	Satisfactory
3	08-08-2025	63	30	11	15	0.62	8	0.13	63	Satisfactory
4	12-08-2025	48	22	8	14	0.39	7	0.09	48	Good
5	16-08-2025	37	16	10	13	0.58	9	0.11	37	Good
6	19-08-2025	45	20	11	14	0.41	7	0.13	45	Good
7	22-08-2025	69	31	10	16	0.30	8	0.10	69	Satisfactory
8	26-08-2025	51	25	10	13	0.24	6	0.14	51	Satisfactory
9	29-08-2025	44	21	11	16	0.38	8	0.09	44	Good

Station: Near Ajoba temple, Honda junction						City: Honda				
Duration:- August- 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	04-08-2025	29	13	7	11	0.28	8	0.03	29	Good
2	07-08-2025	36	15	6	10	0.39	5	0.06	36	Good
3	11-08-2025	26	10	7	12	0.45	7	0.08	26	Good
4	14-08-2025	22	8	5	10	0.17	4	0.05	22	Good
5	18-08-2025	31	13	7	10	0.36	6	0.07	31	Good
6	21-08-2025	43	19	8	12	0.21	7	0.05	43	Good
7	25-08-2025	35	14	6	10	0.15	5	0.02	35	Good
8	29-08-2025	19	10	5	10	0.32	6	0.03	19	Good

Station:- Usgao Junction							City:-Usgao			
Duration:- August-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	04-08-2025	35	16	7	10	0.18	7	0.02	35	Good
2	07-08-2025	44	19	5	10	0.24	9	0.05	44	Good
3	11-08-2025	30	13	8	12	0.15	7	0.03	30	Good
4	14.08.2025	37	17	7	10	0.36	5	0.02	37	Good
5	18-08-2025	25	12	5	10	0.20	7	0.06	25	Good
6	21-08-2025	42	18	7	12	0.27	6	0.08	42	Good
7	25-08-2025	30	15	6	10	0.14	4	0.03	30	Good
8	29-08-2025	26	11	5	10	0.21	6	0.01	26	Good

Premises of Somnath English High School								City:-Codli		
Duration:- August -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	02-08-2025	33	13	5	11	0.17	5	0.02	33	Good
2	06-08-2025	26	10	5	10	0.24	8	0.05	26	Good
3	09-08-2025	38	16	6	10	0.20	10	0.02	38	Good
4	13-08-2025	29	13	6	12	0.15	7	0.04	29	Good
5	16-08-2025	23	9	6	12	0.38	5	0.05	23	Good
6	20-08-2025	36	16	7	13	0.46	5	0.03	36	Good
7	23-08-2025	28	13	6	10	0.17	7	0.06	28	Good
8	26-08-2025	18	7	5	10	0.29	5	0.02	18	Good
9	30-08-2025	32	15	6	10	0.35	7	0.04	32	Good

Station: Rooftop of Sanguem Municipality Building								City: Sanguem		
Duration:- August-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	02-08-2025	28	10	6	10	0.27	7	0.03	28	Good
2	06-08-2025	35	14	7	11	0.36	9	0.05	35	Good
3	09-08-2025	31	11	5	10	0.18	5	0.02	31	Good
4	13-08-2025	21	9	6	10	0.25	7	0.04	21	Good
5	16-08-2025	28	10	5	10	0.21	7	0.02	28	Good
6	20-08-2025	38	14	7	12	0.30	7	0.05	38	Good
7	23-08-2025	26	12	6	11	0.23	5	0.08	26	Good
8	26-08-2025	18	8	5	10	0.34	9	0.01	18	Good
9	30-08-2025	27	11	5	10	0.21	6	0.04	27	Good

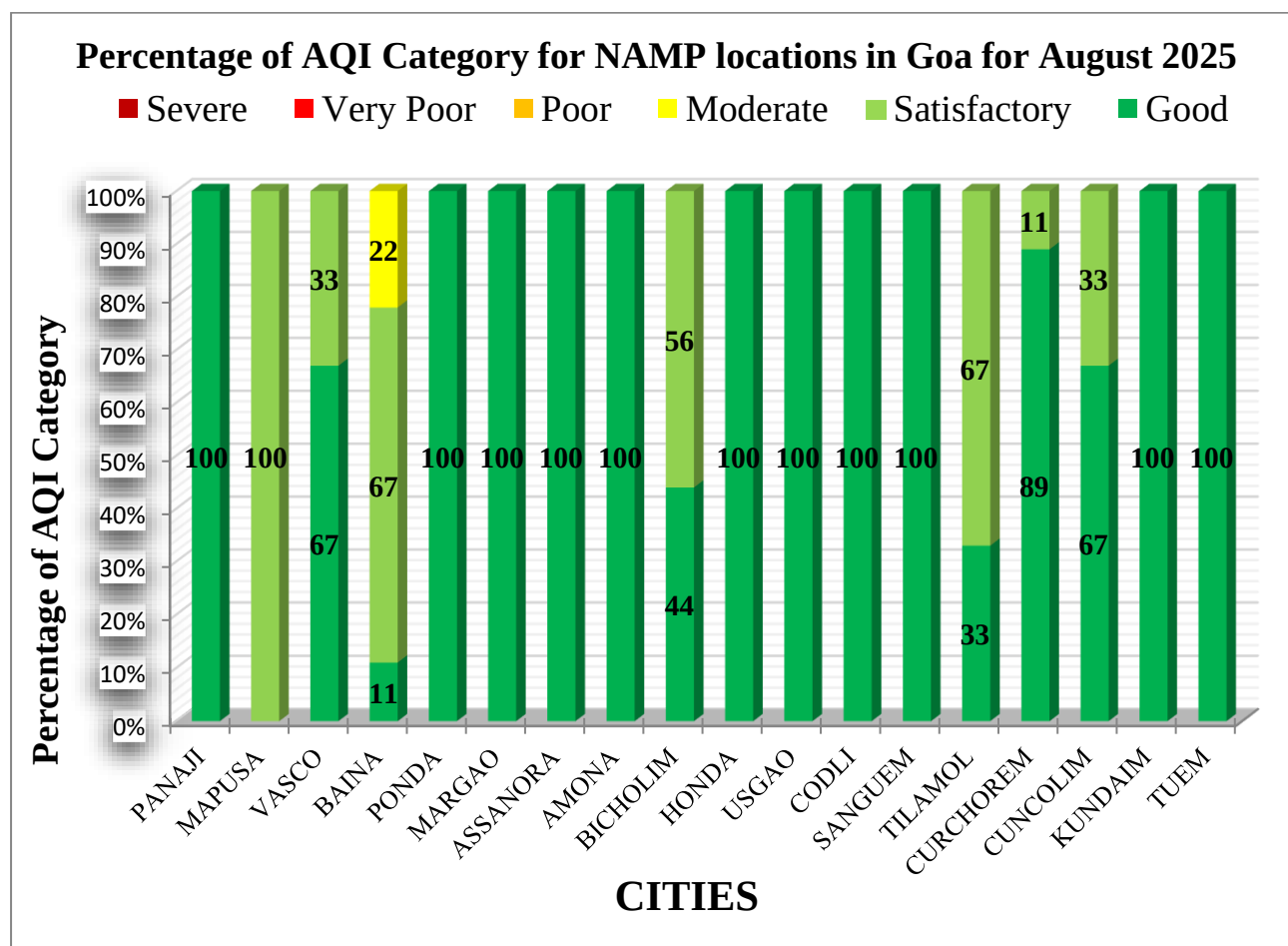
Station: Tilamol Junction							City: Tilamol			
Duration:- August-2025										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	02-08-2025	58	26	11	15	0.46	11	0.07	58	Satisfactory
2	06-08-2025	64	29	10	13	0.59	9	0.11	64	Satisfactory
3	09-08-2025	52	23	11	14	0.67	8	0.08	52	Satisfactory
4	13-08-2025	39	15	8	13	0.42	7	0.10	39	Good
5	16-08-2025	44	18	8	12	0.25	6	0.05	44	Good
6	20-08-2025	58	25	12	15	0.38	9	0.08	58	Satisfactory
7	23-08-2025	48	22	10	13	0.54	6	0.10	48	Good
8	26-08-2025	36	16	10	15	0.36	5	0.07	36	Good
9	30-08-2025	45	22	10	14	0.41	7	0.04	45	Good

Rooftop of Electricity panel room at GSUDA market							City:-Curchorem			
Duration:- August-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	02-08-2025	32	13	7	12	0.51	10	0.06	32	Good
2	06-08-2025	45	17	9	13	0.29	9	0.02	45	Good
3	09-08-2025	37	16	8	10	0.34	7	0.05	37	Good
4	13-08-2025	40	18	10	12	0.22	10	0.03	40	Good
5	16-08-2025	28	12	5	10	0.46	8	0.08	28	Good
6	20-08-2025	52	21	7	12	0.58	8	0.06	52	Satisfactory
7	23-08-2025	35	15	10	13	0.17	5	0.04	35	Good
8	26-08-2025	22	11	6	11	0.25	3	0.07	22	Good
9	30-08-2025	31	14	5	10	0.41	6	0.03	31	Good

Station: Rooftop of Power Station, Cuncolim Ind Estate								City: Cuncolim			
Duration:- August-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	02-08-2025	55	23	10	14	0.43	8	0.15	0.12	55	Satisfactory
2	06-08-2025	47	19	12	15	0.57	12	0.12	0.09	47	Good
3	09-08-2025	38	16	10	14	0.31	9	0.09	0.07	38	Good
4	13-08-2025	32	14	8	12	0.49	7	0.07	0.11	32	Good
5	16-08-2025	62	27	12	15	0.79	7	0.16	0.06	62	Satisfactory
6	20-08-2025	57	24	10	13	0.52	8	0.11	0.10	57	Satisfactory
7	23-08-2025	44	20	10	14	0.38	6	0.08	0.12	44	Good
8	26-08-2025	29	18	9	13	0.26	4	0.04	0.04	29	Good
9	30-08-2025	35	15	10	16	0.47	6	0.12	0.02	35	Good

Station: Near IDC Office					City: Kundaim					
Duration:-August - 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	04-08-2025	49	18	9	13	0.24	9	0.06	49	Good
2	07-08-2025	36	14	8	12	0.41	8	0.03	36	Good
3	11-08-2025	43	17	10	14	0.37	5	0.07	43	Good
4	14-08-2025	29	12	7	11	0.19	5	0.02	29	Good
5	18-08-2025	23	11	6	10	0.28	6	0.04	23	Good
6	21-08-2025	38	16	7	11	0.31	9	0.07	38	Good
7	25-08-2025	45	18	6	11	0.36	6	0.09	45	Good
8	29-08-2025	31	10	6	10	0.25	7	0.02	31	Good

Station: Near ESIC Hospital , Tuem Industrial Estate							City: Tuem			
Duration: August - 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	01-08-2025	49	21	7	12	0.36	8	0.073	49	Good
2	05-08-2025	37	14	9	13	0.51	11	0.053	37	Good
3	08-08-2025	45	18	6	11	0.47	7	0.107	45	Good
4	12-08-2025	31	12	8	12	0.19	9	0.087	31	Good
5	16-08-2025	28	11	5	10	0.26	7	0.047	28	Good
6	19-08-2025	42	17	5	11	0.41	8	0.067	42	Good
7	22-08-2025	31	13	7	11	0.32	5	0.043	31	Good
8	26-08-2025	19	8	6	10	0.24	3	0.017	19	Good
9	29-08-2025	25	12	8	12	0.18	6	0.033	25	Good



Results and Interpretation:

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

Dominantly Good at 12 locations namely – Panaji, Ponda, Margao, Assanora, Amona, Honda, Usgao, Codli, Sanguem, Curchorem, Kundaim and Tuem .

Good to Satisfactory at 4 locations namely - Vasco, Bicholim, Tilamol and Cuncolim.

Good to Satisfactory to Moderate at location namely - Baina

Dominantly Satisfactory at one location namely - Mapusa

(Dominant refers to 75% and above)