

MONTHLY AAQM DATA ALONG WITH
AQI FOR 18 NAMP STATION

SEPTEMBER 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:- September - 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	02-09-2025	35	16	8	14	0.52	10	0.04	35	Good
2	05-09-2025	45	19	9	15	0.69	12	0.08	45	Good
3	09-09-2025	40	16	9	13	0.37	11	0.11	40	Good
4	12-09-2025	52	24	7	14	0.46	9	0.14	52	Satisfactory
5	16-09-2025	58	27	10	15	0.65	11	0.17	58	Satisfactory
6	19-09-2025	41	17	8	12	0.41	9	0.13	41	Good
7	23-09-2025	55	25	11	15	0.58	11	0.15	55	Satisfactory
8	26-09-2025	61	28	10	14	0.62	11	0.12	61	Satisfactory
9	30-09-2025	46	21	7	12	0.34	7	0.09	46	Good

Station: Within the premises of Municipality building							City :Mapusa			
Duration:-September - 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	02-09-2025	42	19	8	13	0.63	8	0.07	42	Good
2	05-09-2025	53	25	9	15	0.37	9	0.10	53	Satisfactory
3	09-09-2025	63	27	11	16	0.59	11	0.13	63	Satisfactory
4	12-09-2025	57	23	8	14	0.48	9	0.11	57	Satisfactory
5	16-09-2025	66	29	10	14	0.51	10	0.14	66	Satisfactory
6	19-09-2025	71	33	11	16	0.64	12	0.12	71	Satisfactory
7	23-09-2025	59	27	7	12	0.42	10	0.09	59	Satisfactory
8	26-09-2025	65	30	10	15	0.60	11	0.11	65	Satisfactory
9	30-09-2025	76	36	11	17	0.73	12	0.15	76	Satisfactory

Station: MPT Quarters					City: Baina			
Duration:- September-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	03-09-2025	100	29	5	5	31	100	Satisfactory
2	05-09-2025	96	40	6	5	21	96	Satisfactory
3	10-09-2025	68	19	2	5	28	68	Satisfactory
4	12-09-2025	48	17	2	9	10	48	Good
5	17-09-2025	36	14	2	5	25	36	Good
6	19-09-2025	38	24	4	5	10	40	Good
7	24-09-2025	57	14	2	5	25	57	Satisfactory
8	26-09-2025	57	21	4	5	27	57	Satisfactory
9	29-09-2025	35	26	2	5	39	43	Good

Station: Fuse Call Office				City: Vasco				
Duration:- September-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	03-09-2025	51	17	2	5	21	51	Satisfactory
2	05-09-2025	42	22	5	10	48	42	Good
3	10-09-2025	67	20	2	10	33	67	Satisfactory
4	12-09-2025	67	18	4	5	32	67	Satisfactory
5	17-09-2025	47	26	5	10	42	47	Good
6	19-09-2025	24	14	6	5	21	24	Good
7	24-09-2025	70	15	2	5	33	70	Satisfactory
8	26-09-2025	57	21	4	5	31	57	Satisfactory
9	29-09-2025	48	13	2	5	25	48	Good

Station: Roof top of Municipal market						City: Ponda				
Duration:-September - 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	01-09-2025	39	18	8	13	0.45	9	0.04	39	Good
2	04-09-2025	47	21	9	15	0.19	7	0.09	47	Good
3	08-09-2025	52	23	9	13	0.27	11	0.12	52	Satisfactory
4	11-09-2025	41	18	10	15	0.36	12	0.07	41	Good
5	15-09-2025	36	16	9	13	0.52	10	0.09	36	Good
6	18-09-2025	45	19	7	12	0.41	11	0.12	45	Good
7	22-09-2025	53	23	10	14	0.59	9	0.08	53	Satisfactory
8	25-09-2025	50	17	8	12	0.30	11	0.12	50	Good
9	29-09-2025	33	14	7	10	0.22	8	0.07	33	Good

Station: Rooftop of Ravindra Bhavan Building							City:-Margao			
Duration:- September 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	03-09-2025	37	12	6	11	0.32	9	0.05	37	Good
2	06-09-2025	45	19	7	12	0.26	10	0.07	45	Good
3	10-09-2025	33	15	6	10	0.41	9	0.04	33	Good
4	13-09-2025	41	18	9	13	0.29	9	0.06	41	Good
5	17-09-2025	28	11	7	10	0.35	10	0.09	28	Good
6	20-09-2025	36	15	7	12	0.24	7	0.12	36	Good
7	24-09-2025	50	23	6	10	0.46	10	0.10	50	Good
8	27-09-2025	31	14	6	11	0.15	6	0.13	31	Good

Station: Residence of Mr. Rama Naik, Assanora Junction City: Assanora										
Duration: September - 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	02-09-2025	42	19	7	11	0.34	7	0.05	42	Good
2	05-09-2025	34	14	8	14	0.48	9	0.08	34	Good
3	09-09-2025	47	20	7	11	0.59	7	0.06	47	Good
4	12-09-2025	52	22	10	13	0.41	9	0.09	52	Satisfactory
5	16-09-2025	39	16	9	14	0.53	9	0.05	39	Good
6	19-09-2025	57	25	10	14	0.64	10	0.11	57	Satisfactory
7	23-09-2025	49	21	9	13	0.39	7	0.08	49	Good
8	26-09-2025	35	14	7	12	0.25	5	0.05	35	Good
9	30-09-2025	51	19	10	13	0.57	10	0.12	51	Satisfactory

Station: Residence of Mr. Sagun Ramkrishna Fadte							City: Amona			
Duration:- -September - 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	01-09-2025	39	16	6	11	0.49	10	0.08	39	Good
2	04-09-2025	47	19	7	13	0.42	8	0.05	47	Good
3	08-09-2025	57	24	7	11	0.27	11	0.11	57	Satisfactory
4	11-09-2025	44	16	8	13	0.38	9	0.09	44	Good
5	15-09-2025	35	14	7	11	0.31	12	0.07	35	Good
6	18-09-2025	32	13	6	11	0.25	9	0.04	32	Good
7	22-09-2025	45	19	8	12	0.39	10	0.09	45	Good
8	25-09-2025	52	24	9	14	0.56	12	0.13	52	Satisfactory
9	29-09-2025	36	18	6	11	0.20	7	0.06	36	Good

Station: Municipality Building					City: Bicholim					
Duration: September - 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	02-09-2025	65	27	11	15	0.43	9	0.20	65	Satisfactory
2	05-09-2025	57	24	11	17	0.71	11	0.14	57	Satisfactory
3	09-09-2025	70	31	10	15	0.59	10	0.19	70	Satisfactory
4	12-09-2025	56	21	10	13	0.43	12	0.17	56	Satisfactory
5	16-09-2025	62	26	12	16	0.62	10	0.15	62	Satisfactory
6	19-09-2025	49	22	9	14	0.35	10	0.18	49	Good
7	23-09-2025	58	26	11	15	0.57	12	0.14	58	Satisfactory
8	26-09-2025	47	20	8	12	0.41	9	0.17	47	Good
9	30-09-2025	65	30	11	16	0.76	14	0.15	65	Satisfactory

Station: Near Ajoba temple, Honda junction						City: Honda				
Duration:- September- 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	01-09-2025	45	19	7	12	0.51	8	0.05	45	Good
2	04-09-2025	32	13	7	11	0.43	11	0.02	32	Good
3	08-09-2025	48	21	6	12	0.36	10	0.11	48	Good
4	11-09-2025	53	24	8	12	0.28	10	0.09	53	Satisfactory
5	15-09-2025	44	20	6	11	0.49	9	0.13	44	Good
6	18-09-2025	38	15	7	12	0.36	9	0.10	38	Good
7	22-09-2025	51	23	9	14	0.54	11	0.15	51	Satisfactory
8	25-09-2025	58	25	11	15	0.63	12	0.18	58	Satisfactory
9	29-09-2025	36	16	7	11	0.31	7	0.13	36	Good

Station:- Usgao Junction							City:-Usgao			
Duration:- September-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	01-09-2025	41	18	8	13	0.43	9	0.04	41	Good
2	04-09-2025	35	16	7	12	0.39	9	0.07	35	Good
3	08-09-2025	48	23	9	14	0.27	11	0.05	48	Good
4	11-09-2025	58	26	9	13	0.51	11	0.08	58	Satisfactory
5	15-09-2025	44	20	10	15	0.24	10	0.11	44	Good
6	18-09-2025	51	22	7	11	0.36	9	0.14	51	Satisfactory
7	22-09-2025	59	26	9	15	0.20	10	0.17	59	Satisfactory
8	25-09-2025	43	17	8	12	0.47	10	0.12	43	Good
9	29-09-2025	35	14	7	10	0.18	7	0.09	35	Good

Premises of Somnath English High School							City:-Codli			
Duration:- September -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	03-09-2025	30	14	6	10	0.35	7	0.03	30	Good
2	06-09-2025	42	17	7	11	0.21	7	0.06	42	Good
3	10-09-2025	36	14	6	10	0.29	9	0.02	36	Good
4	13-09-2025	46	21	8	12	0.42	11	0.07	46	Good
5	17-09-2025	28	12	6	11	0.37	8	0.03	28	Good
6	20-09-2025	42	18	8	12	0.30	10	0.08	42	Good
7	24-09-2025	34	16	8	11	0.26	10	0.05	34	Good
8	27-09-2025	26	13	6	10	0.19	7	0.03	26	Good

Station: Rooftop of Sanguem Municipality Building City: Sanguem									City: Sanguem	
Duration:- September-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	03-09-2025	32	15	6	11	0.39	7	0.06	32	Good
2	06-09-2025	46	19	5	12	0.25	9	0.10	46	Good
3	10-09-2025	40	17	8	12	0.46	9	0.05	40	Good
4	13-09-2025	53	23	9	13	0.51	10	0.12	53	Satisfactory
5	17-09-2025	35	16	7	11	0.43	9	0.08	35	Good
6	20-09-2025	41	18	8	12	0.32	11	0.11	41	Good
7	24-09-2025	55	22	8	12	0.68	9	0.13	55	Satisfactory
8	27-09-2025	37	16	6	10	0.40	8	0.10	37	Good

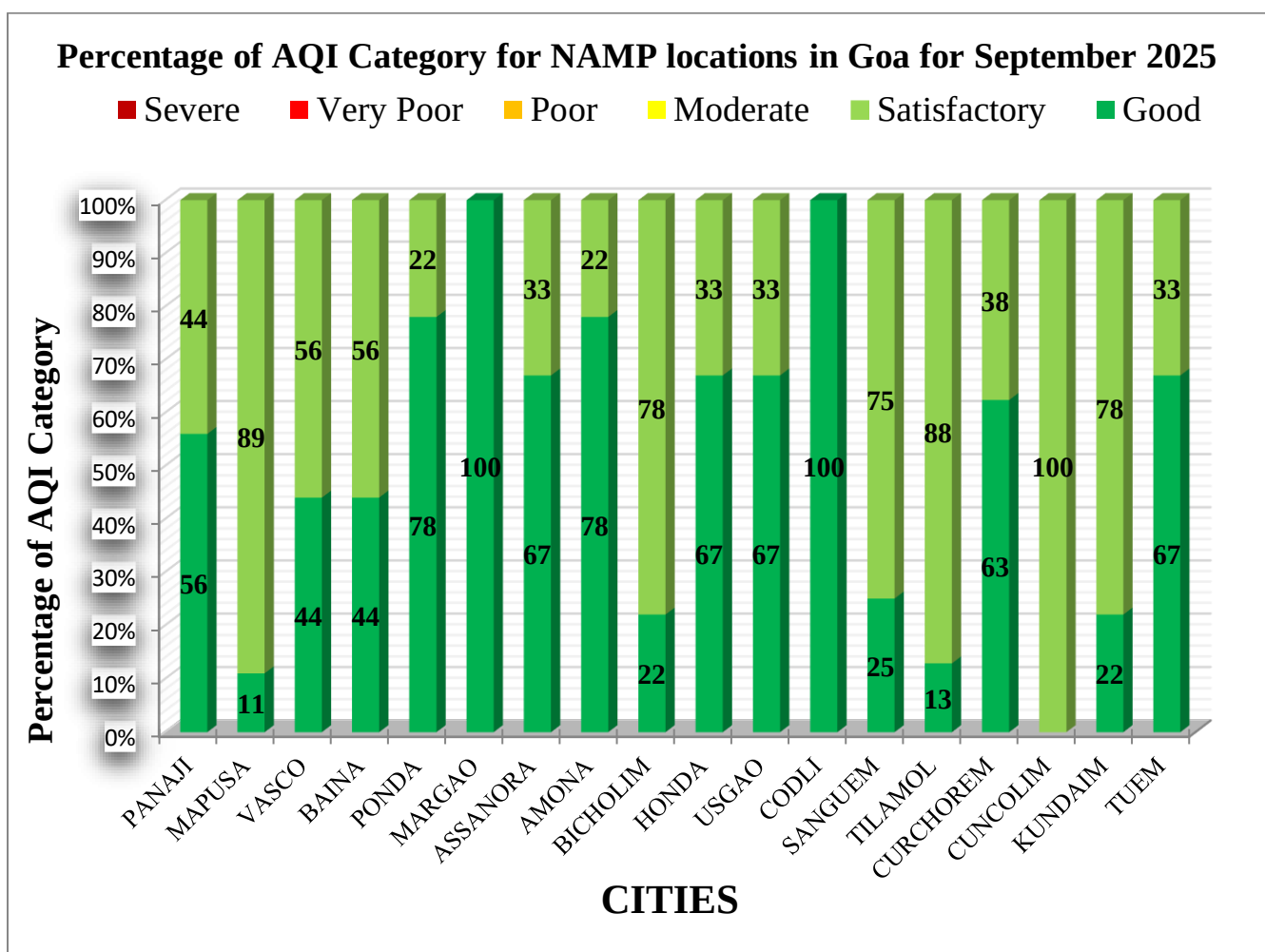
Station: Tilamol Junction							City: Tilamol			
Duration:- September 2025										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	03-09-2025	55	25	9	14	0.41	8	0.07	55	Satisfactory
2	06-09-2025	69	31	10	15	0.64	9	0.13	69	Satisfactory
3	10-09-2025	75	35	9	13	0.53	10	0.11	75	Satisfactory
4	13-09-2025	61	27	11	15	0.78	9	0.14	61	Satisfactory
5	17-09-2025	50	24	10	14	0.46	11	0.10	50	Satisfactory
6	20-09-2025	64	28	10	14	0.57	11	0.13	64	Satisfactory
7	24-09-2025	70	32	12	16	0.34	12	0.15	70	Satisfactory
8	27-09-2025	46	20	10	13	0.45	10	0.09	46	Good

Rooftop of Electricity panel room at GSUDA market							City:-Curchorem			
Duration:- September-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	03-09-2025	39	17	7	12	0.48	8	0.07	39	Good
2	06-09-2025	46	21	10	14	0.31	10	0.10	46	Good
3	10-09-2025	52	23	9	14	0.56	10	0.09	52	Satisfactory
4	13-09-2025	58	27	7	11	0.73	11	0.12	58	Satisfactory
5	17-09-2025	44	19	9	15	0.34	9	0.15	44	Good
6	20-09-2025	52	23	9	13	0.62	10	0.10	52	Satisfactory
7	24-09-2025	41	17	8	13	0.41	12	0.07	41	Good
8	27-09-2025	36	15	6	11	0.30	10	0.05	36	Good

Station: Rooftop of Power Station, Cuncolim Ind Estate									City: Cuncolim		
Duration:- September-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	03-09-2025	42	19	10	15	0.58	7	0.16	0.08	42	Good
2	06-09-2025	58	24	13	16	0.46	8	0.09	0.15	58	Satisfactory
3	10-09-2025	65	26	11	15	0.32	11	0.16	0.12	65	Satisfactory
4	13-09-2025	59	22	10	13	0.51	10	0.11	0.17	59	Satisfactory
5	17-09-2025	46	18	10	15	0.73	12	0.15	0.14	46	Good
6	20-09-2025	52	21	12	16	0.65	12	0.13	0.11	52	Satisfactory
7	24-09-2025	61	24	11	15	0.49	10	0.15	0.18	61	Satisfactory
8	27-09-2025	55	23	9	13	0.57	9	0.11	0.15	55	Satisfactory

Station: Near IDC Office						City: Kundaim				
Duration:-September - 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	01-09-2025	54	23	11	14	0.84	10	0.09	54	Satisfactory
2	04-09-2025	49	21	8	13	0.67	8	0.12	49	Good
3	08-09-2025	61	26	11	15	0.51	12	0.15	61	Satisfactory
4	11-09-2025	55	24	10	14	0.43	11	0.11	55	Satisfactory
5	15-09-2025	68	31	11	15	0.58	13	0.16	68	Satisfactory
6	18-09-2025	52	25	8	13	0.62	11	0.13	52	Satisfactory
7	22-09-2025	70	33	11	15	0.73	13	0.10	70	Satisfactory
8	25-09-2025	56	26	9	13	0.50	9	0.08	56	Satisfactory
9	29-09-2025	39	17	7	11	0.29	6	0.05	39	Good

Station: Near ESIC Hospital , Tuem Industrial Estate							City: Tuem			
Duration: September - 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	02-09-2025	39	17	7	11	0.49	10	0.050	39	Good
2	05-09-2025	45	21	7	13	0.56	11	0.077	45	Good
3	09-09-2025	58	26	9	14	0.38	8	0.130	58	Satisfactory
4	12-09-2025	51	22	10	14	0.44	12	0.103	51	Satisfactory
5	16-09-2025	62	28	8	13	0.63	9	0.147	62	Satisfactory
6	19-09-2025	44	18	10	15	0.35	10	0.120	44	Good
7	23-09-2025	38	16	10	14	0.26	10	0.140	38	Good
8	26-09-2025	30	14	8	12	0.31	7	0.080	30	Good
9	30-09-2025	49	22	10	12	0.47	11	0.113	49	Good



Results and Interpretation:

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

Dominantly Good at 4 locations namely –Ponda, Margao, Amona and Codli.

Good to Satisfactory at 7 locations namely - Panaji, Vasco, Baina, Assanora, Honda, Usgao, Curchorem and Tuem.

Dominantly Satisfactory at 6 locations namely – Mapusa, Bicholim, Sanguem, Tilamol Cuncolim and Kundaim

(Dominant refers to 75% and above)