

MONTHLY AAQM DATA ALONG WITH AQI FOR 18 NAMP STATION

JUNE 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:- June - 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	03-06-2025	57	27	9	12	0.54	15	0.03	57	Satisfactory
2	06-06-2025	67	30	10	15	0.71	16	0.05	67	Satisfactory
3	10-06-2025	55	24	8	14	0.86	12	0.02	55	Satisfactory
4	13-06-2025	46	19	8	14	0.95	14	0.04	48	Good
5	17-06-2025	39	17	7	12	0.63	11	0.03	39	Good
6	20-06-2025	33	14	7	10	0.34	9	0.01	33	Good
7	24-06-2025	46	20	7	10	0.25	7	0.02	46	Good
8	27-06-2025	38	17	8	12	0.19	9	0.05	38	Good

Station: Within the premises of Municipality building									City :Mapusa	
Duration:- June - 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	03-06-2025	60	26	7	13	0.82	15	0.03	60	Satisfactory
2	06-06-2025	69	32	9	15	0.97	17	0.02	69	Satisfactory
3	10-06-2025	53	23	8	13	0.75	15	0.05	53	Satisfactory
4	13-06-2025	46	19	8	12	0.69	13	0.02	46	Good
5	17-06-2025	40	16	9	12	0.48	10	0.03	40	Good
6	20-06-2025	33	13	6	11	0.36	9	0.02	33	Good
7	24-06-2025	42	15	8	12	0.29	11	0.04	42	Good
8	27-06-2025	35	13	6	11	0.41	10	0.02	35	Good

Station: MPT Quarters							City: Baina	
Duration:- June-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	04-06-2025	148	30	4	7	10	132	Moderate
2	06-06-2025	99	29	4	11	20	99	Satisfactory
3	11-06-2025	79	16	2	6	37	79	Satisfactory
4	13-06-2025	20	29	2	3	94	48	Good
5	18-06-2025	99	22	2	3	29	99	Satisfactory
6	20-06-2025	27	19	2	3	95	32	Good
7	25-06-2025	55	21	8	3	22	55	Satisfactory
8	27-06-2025	42	25	2	3	30	42	Good

Station: Roof top of Municipal market									City: Ponda	
Duration:-June - 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	02-06-2025	59	28	9	13	0.74	15	0.02	59	Satisfactory
2	05-06-2025	57	26	10	14	0.91	17	0.05	57	Satisfactory
3	09-06-2025	46	22	8	13	0.53	14	0.03	46	Good
4	12-06-2025	63	28	10	15	0.86	12	0.02	63	Satisfactory
5	16-06-2025	51	22	8	13	0.67	12	0.04	51	Satisfactory
6	19-06-2025	45	21	8	12	0.42	9	0.01	45	Good
7	23-06-2025	32	13	6	11	0.35	10	0.03	32	Good
8	26-06-2025	42	17	7	11	0.29	9	0.04	42	Good
9	30-06-2025	36	15	5	11	0.18	7	0.01	36	Good

Station: Rooftop of Ravindra Bhavan Building								City:-Margao		
Duration:- June 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	04-06-2025	48	22	9	13	0.68	15	0.03	48	Good
2	07-06-2025	56	25	10	16	0.59	13	0.02	56	Satisfactory
3	11-06-2025	63	27	9	13	0.74	15	0.02	63	Satisfactory
4	14-06-2025	43	19	8	12	0.61	12	0.03	43	Good
5	18-06-2025	35	14	6	11	0.33	8	0.01	35	Good
6	21-06-2025	30	12	6	10	0.19	11	0.01	30	Good
7	25-06-2025	39	15	7	10	0.24	10	0.03	39	Good
8	28-06-2025	44	18	7	11	0.37	9	0.01	44	Good

Station: Residence of Mr. Rama Naik, Assanora Junction									City: Assanora	
Duration: June - 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	03-06-2025	46	19	8	12	0.54	18	0.06	46	Good
2	06-06-2025	57	26	8	14	1.17	19	0.03	59	Satisfactory
3	10-06-2025	54	23	11	15	0.89	16	0.05	54	Satisfactory
4	13-06-2025	41	18	8	13	0.63	12	0.02	41	Good
5	17-06-2025	48	21	9	11	0.92	13	0.04	48	Good
6	20-06-2025	38	16	8	11	0.46	10	0.01	38	Good
7	24-06-2025	32	13	6	11	0.21	9	0.02	32	Good
8	27-06-2025	43	18	7	11	0.35	8	0.05	43	Good

Station: Residence of Mr. Sagun Ramkrishna Fadte									City: Amona	
Duration:- -June - 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	02-06-2025	58	27	8	12	0.63	15	0.02	58	Satisfactory
2	05-06-2025	64	30	9	15	0.71	16	0.05	64	Satisfactory
3	09-06-2025	54	24	8	14	0.85	15	0.03	54	Satisfactory
4	12-06-2025	45	21	8	11	0.69	12	0.02	45	Good
5	16-06-2025	51	22	6	10	0.54	11	0.04	51	Satisfactory
6	19-06-2025	42	17	5	11	0.38	9	0.01	42	Good
7	23-06-2025	50	17	9	12	0.26	7	0.03	50	Good
8	26-06-2025	37	15	8	13	0.19	10	0.02	37	Good
9	30-06-2025	30	12	7	10	0.15	7	0.01	30	Good

Station: Municipality Building					City: Bicholim					
Duration: June - 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	03-06-2025	67	29	12	16	0.83	16	0.11	67	Satisfactory
2	06-06-2025	74	32	11	14	1.17	19	0.14	74	Satisfactory
3	10-06-2025	61	27	9	13	0.75	16	0.09	61	Satisfactory
4	13-06-2025	70	30	10	14	0.69	12	0.12	70	Satisfactory
5	17-06-2025	54	23	11	15	0.92	15	0.09	54	Satisfactory
6	20-06-2025	47	20	9	14	0.54	12	0.07	47	Good
7	24-06-2025	63	25	9	14	0.68	9	0.04	63	Satisfactory
8	27-06-2025	50	22	7	12	0.43	11	0.06	50	Satisfactory

Station: Near Ajoba temple, Honda junction									City: Honda	
Duration:- June - 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	02-06-2025	46	21	7	11	0.61	13	0.03	46	Good
2	05-06-2025	59	23	10	15	0.45	15	0.05	59	Satisfactory
3	09-06-2025	52	23	7	12	0.73	13	0.02	52	Satisfactory
4	12-06-2025	44	18	8	14	0.59	12	0.01	44	Good
5	16-06-2025	36	16	7	11	0.38	11	0.03	36	Good
6	19-06-2025	41	17	9	13	0.47	9	0.05	41	Good
7	23-06-2025	32	14	7	11	0.26	9	0.02	32	Good
8	26-06-2025	38	15	8	12	0.19	8	0.04	38	Good
9	30-06-2025	45	13	7	11	0.35	9	0.02	45	Good

Station:- Usgao Junction								City:-Usgao		
Duration:- June-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	02-06-2025	50	23	9	12	0.73	14	0.02	50	Good
2	05-06-2025	63	25	11	17	0.86	15	0.04	63	Satisfactory
3	09-06-2025	55	22	10	14	0.59	13	0.03	55	Satisfactory
4	12-06-2025	46	18	7	12	0.42	11	0.02	46	Good
5	16-06-2025	40	16	7	11	0.28	9	0.03	40	Good
6	19-06-2025	50	22	8	13	0.35	10	0.01	50	Satisfactory
7	23-06-2025	40	15	6	12	0.21	8	0.03	40	Good
8	26-06-2025	47	20	8	10	0.39	9	0.05	47	Good
9	30-06-2025	36	16	7	11	0.27	7	0.03	36	Good

Premises of Somnath English High School									City:-Codli	
Duration:- June -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	04-06-2025	55	22	7	12	0.83	18	0.02	55	Satisfactory
2	07-06-2025	65	29	9	16	0.95	15	0.05	65	Satisfactory
3	11-06-2025	57	24	9	13	0.61	13	0.04	57	Satisfactory
4	14-06-2025	50	22	7	11	0.44	12	0.04	50	Good
5	18-06-2025	36	15	5	9	0.32	9	0.03	36	Good
6	21-06-2025	45	18	6	12	0.21	7	0.01	45	Good
7	25-06-2025	33	14	6	10	0.37	9	0.03	33	Good
8	28-06-2025	37	16	7	12	0.25	9	0.05	37	Good

Station: Rooftop of Sanguem Municipality Building									City: Sanguem	
Duration:- June -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	04-06-2025	59	25	8	14	0.91	15	0.04	59	Satisfactory
2	07-06-2025	68	30	10	14	0.76	18	0.02	68	Satisfactory
3	11.06-2025	62	27	8	13	0.64	16	0.01	62	Satisfactory
4	14-06-2025	54	23	9	14	0.82	12	0.02	54	Satisfactory
5	18-06-2025	67	19	7	12	0.45	10	0.06	67	Satisfactory
6	21-06-2025	41	16	7	11	0.31	8	0.03	41	Good
7	25-06-2025	48	21	8	11	0.27	10	0.05	48	Good
8	28-06-2025	36	14	8	13	0.19	7	0.03	36	Good

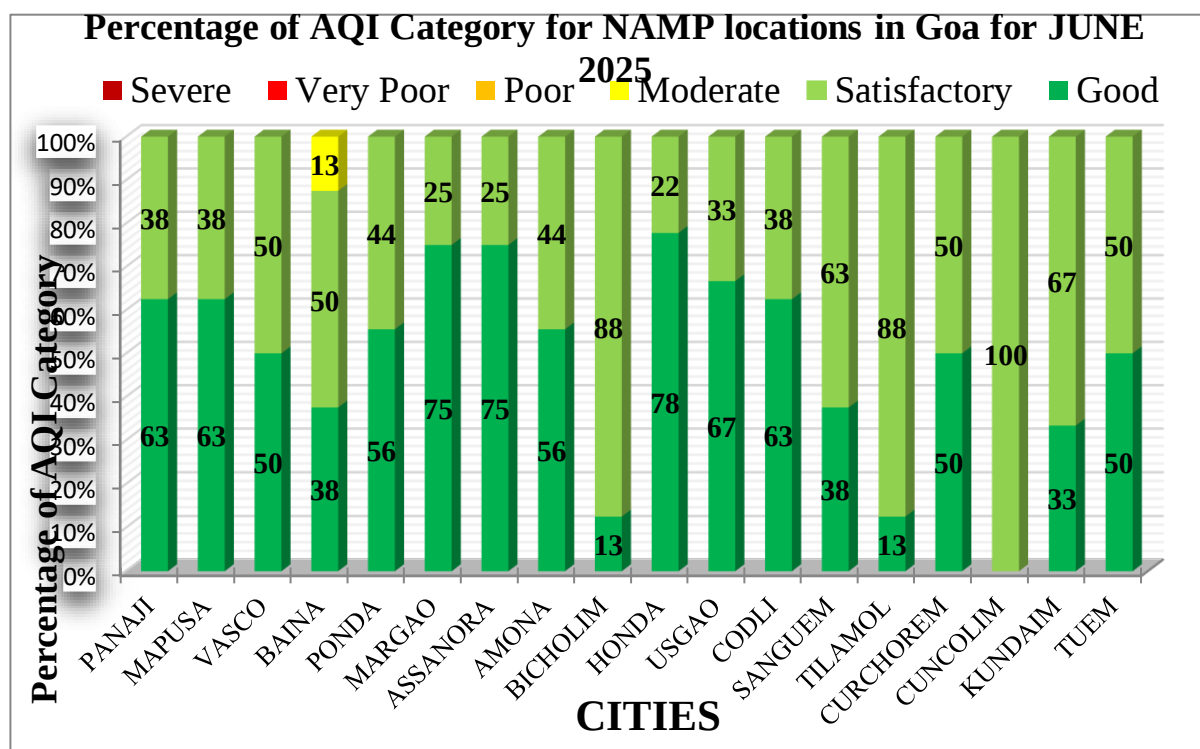
Station: Tilamol Junction								City: Tilamol		
Duration:- June-2025										
Sr.No		Time Weighted Average (TWA)							AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)								
	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CO	O ₃	Pb		
1	04-06-2025	80	37	11	15	0.86	16	0.03	80	Satisfactory
2	07-06-2025	87	40	12	17	1.05	19	0.09	87	Satisfactory
3	11-06-2025	76	34	12	16	0.59	17	0.05	76	Satisfactory
4	14-06-2025	70	27	10	15	0.73	13	0.07	70	Satisfactory
5	18-06-2025	56	21	9	14	0.46	11	0.05	56	Satisfactory
6	21-06-2025	50	22	11	16	0.62	9	0.02	50	Good
7	25-06-2025	61	28	9	15	0.53	10	0.05	61	Satisfactory
8	28-06-2025	55	24	10	16	0.48	9	0.03	55	Satisfactory

Rooftop of Electricity panel room at GSUDA market									City:-Curchorem	
Duration:- June-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	04-06-2025	59	24	9	13	0.74	17	0.04	59	Satisfactory
2	07-06-2025	67	31	10	16	0.96	18	0.07	67	Satisfactory
3	11-06-2025	52	22	9	15	0.82	17	0.05	52	Satisfactory
4	14-06-2025	45	19	8	13	0.65	11	0.03	45	Good
5	18-06-2025	55	22	8	13	0.51	11	0.05	55	Satisfactory
6	21-06-2025	44	18	6	11	0.43	8	0.01	44	Good
7	25-06-2025	38	15	7	12	0.38	9	0.03	38	Good
8	28-06-2025	48	22	8	12	0.25	7	0.02	48	Good

Station: Rooftop of Power Station, Cuncolim Ind Estate										City: Cuncolim	
Duration:- June-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	04-06-2025	71	33	9	16	0.65	16	0.18	0.09	71	Satisfactory
2	07-06-2025	66	29	12	17	0.92	19	0.25	0.13	66	Satisfactory
3	11-06-2025	54	23	11	14	0.73	15	0.12	0.07	54	Satisfactory
4	14-06-2025	69	32	10	15	0.84	13	0.19	0.08	69	Satisfactory
5	18-06-2025	64	28	10	16	0.62	11	0.15	0.12	64	Satisfactory
6	21-06-2025	52	21	9	13	0.49	8	0.11	0.09	52	Satisfactory
7	25-06-2025	58	24	10	13	0.37	11	0.14	0.07	58	Satisfactory
8	28-06-2025	67	31	11	15	0.28	9	0.16	0.08	67	Satisfactory

Station: Near IDC Office							City: Kundaim			
Duration:- June - 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	02-06-2025	65	31	9	14	0.81	16	0.06	65	Satisfactory
2	05-06-2025	71	36	11	16	0.73	18	0.08	71	Satisfactory
3	09-06-2025	66	30	10	15	0.59	16	0.05	66	Satisfactory
4	12-06-2025	58	27	10	14	0.64	13	0.09	58	Satisfactory
5	16-06-2025	47	21	8	12	0.42	10	0.03	47	Good
6	19-06-2025	61	25	9	13	0.55	10	0.08	61	Satisfactory
7	23-06-2025	52	23	7	10	0.31	11	0.06	52	Satisfactory
8	26-06-2025	46	19	8	11	0.24	9	0.03	46	Good
9	30-06-2025	39	15	10	13	0.49	10	0.01	39	Good

Station: Near ESIC Hospital , Tuem Industrial Estate									City: Tuem	
Duration: June - 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	03-06-2025	56	25	9	12	0.85	15	0.027	56	Satisfactory
2	06-06-2025	65	29	9	14	1.05	17	0.017	65	Satisfactory
3	10-06-2025	72	33	11	17	0.93	15	0.037	72	Satisfactory
4	13-06-2025	54	27	9	14	0.76	16	0.040	54	Satisfactory
5	17-06-2025	47	20	7	12	0.51	13	0.030	47	Good
6	20-06-2025	37	16	9	13	0.39	11	0.013	37	Good
7	24-06-2025	49	20	7	11	0.24	8	0.037	49	Good
8	27-06-2025	43	16	7	11	0.37	10	0.067	43	Good



Results and Interpretation:

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

Good at 3 locations namely:, Margao, Assanora, Honda,

Good to Satisfactory at 11 locations namely: Panaji, Mapusa, Ponda ,Vasco, Amona, , Usgao, Codli, Sanguem, Curchorem, And Tuem

Good to Satisfactory to Moderate at 1 location namely –Baina

Satisfactory at 3 Locations : Bicholim, Tilamol and Cuncolim

(Dominant refers to 75% and above)