

Table 4.8

Ambient Air Quality Monitoring Status

Location	Sl. No.	Date of Sampling	Concentration of Pollutants ($\mu\text{g}/\text{m}^3$)				
			SPM	RPM	SO ₂	NOx	
Chandmari Bongali Gaon	1.	20/01/2009	326	219	7.8	23.7	
	2.	21/01/2009	245	176	10.7	30.1	
	3.	22/01/2009	237	198	9.8	41.5	
	4.	23/01/2009	221	171	12.5	37.4	
	5.	24/01/2009	267	195	15.5	43.4	
			Maximum	326	219	15.5	43.4
			Minimum	221	171	7.8	23.7
		Average	259	192	11.3	35.2	
Naoholia No. 3	1.	25/01/2009	398	120	7.8	16.3	
	2.	26/01/2009	96	82	4.8	7.4	
	3.	27/01/2009	80	69	10.7	14.9	
	4.	28/01/2009	79	54	7.1	16.5	
			Maximum	398	120	10.7	16.5
			Minimum	79	54	4.8	7.4
			Average	163	81	7.6	13.8
Chuta Hapjan Gaon	1.	29/01/2009	156	98	10.7	13.6	
	2.	30/01/2009	171	110	5.5	15.4	
	3.	31/01/2009	128	95	12.2	19.6	
	4.	01/02/2009	309	136	8.8	19.4	
			Maximum	309	136	12.2	19.6
			Minimum	128	95	5.5	13.6
			Average	191	110	9.3	17.0
Dighaltarang Gaon	1.	02/02/2009	138	102	5.9	9.7	
	2.	03/02/2009	123	86	5.5	10.4	
	3.	04/02/2009	227	150	5.4	10.1	
	4.	05/02/2009	138	81	5.9	9.9	
			Maximum	227	150	5.9	10.4
			Minimum	123	81	5.4	9.7
			Average	157	105	5.7	10.0
Baghjan Gaon	1.	06/02/2009	37	24	7.7	13.9	
	2.	07/02/2009	47	33	13.1	15.2	
	3.	08/02/2009	148	108	11.6	17.9	
	4.	09/02/2009	105	70	7.6	13.4	
			Maximum	148	108	13.1	17.9
			Minimum	37	24	7.6	13.4
			Average	84	59	10.0	15.1
Tengapani TE	1.	10/02/2009	237	144	4.2	13.4	
	2.	11/02/2009	194	144	6.6	15.9	
	3.	12/02/2009	293	199	10.3	18.2	
	4.	13/02/2009	174	105	4.4	17.0	
			Maximum	293	199	10.3	18.2
			Minimum	174	105	4.2	13.4
			Average	225	148	6.4	16.1
Nagaajan Gaon	1.	14/02/2009	125	87	5.8	16.4	
	2.	15/02/2009	96	48	7.5	8.6	
	3.	16/02/2009	53	43	5.8	15.7	
	4.	17/02/2009	53	41	6.2	11.5	
			Maximum	125	87	7.5	16.4
			Minimum	53	41	5.8	8.6
			Average	82	55	6.3	13.1
Location	Sl. No.	Date of Sampling	Concentration of Pollutants ($\mu\text{g}/\text{m}^3$)				
			SPM	RPM	SO ₂	NOx	
Jaygukhowa Gaon	1.	18/02/2009	141	59	13.2	16.9	
	2.	19/02/2009	244	136	5.3	9.6	
	3.	20/02/2009	102	60	6.3	15.3	
	4.	21/02/2009	99	57	5.8	13.2	
			Maximum	244	136	13.2	16.9
			Minimum	99	57	5.3	9.6
			Average	147	78	7.7	13.8

Note: One grab ambient air sample was also collected from each of eight locations and analyzed for CO and hydrocarbons. The analysis results are as under:

Sl. No.	Location	Date of Sampling	CO, $\mu\text{g}/\text{m}^3$	CH ₄ , ppmv	Total Hydrocarbon (as CH ₄) ppmv	Non-Methane Hydrocarbons (as CH ₄), ppmv
1.	Chandmari Bongali Gaon	24/01/2009	1220	2.9	3.3	0.4
2.	Naoholia No. 3	28/01/2009	1080	2.8	3.1	0.3
3.	Niz-Lahoal	01/02/2009	990	2.0	2.1	0.1
4.	Wilton 22/157 Orr	05/02/2009	1020	2.7	3.0	0.3
5.	Niz-Tengakhat	09/02/2009	930	1.9	2.1	0.2
6.	Tengapani TE 316 Nlr Gt.	13/02/2009	900	2.2	2.3	0.1
7.	Nagaajan Gaon	17/02/2009	880	1.8	2.0	0.2
8.	Bokul Maj Gaon	21/02/2009	980	2.0	2.2	0.2

Note: Analytical procedure (Flame Ionization Detector) used for Total Hydrocarbons measures concentration of Hydrocarbons and Other Volatile Compounds.