

Table 4.9

Ambient Air Quality Monitoring Status

Location	Sl. No.	Date of Sampling	Concentration of Pollutants ($\mu\text{g}/\text{m}^3$)				
			SPM	RPM	SO ₂	NO _x	
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	
Niz-Lahoal	1.	29/01/2009	152	120	5.2	11.8	
	2.	30/01/2009	123	51	7.7	10.9	
	3.	31/01/2009	101	83	5.3	6.7	
	4.	01/02/2009	76	45	5.4	10.2	
			Maximum	152	120	7.7	11.8
			Minimum	76	45	5.2	6.7
		Average	113	75	5.9	9.9	
Wilton 22/157 Orr (ITF Tengakhat)	1.	02/02/2009	79	65	8.5	18.9	
	2.	03/02/2009	78	63	6.6	15.1	
	3.	04/02/2009	81	71	7.5	9.8	
	4.	05/02/2009	91	72	5.6	10.8	
			Maximum	91	72	8.5	18.9
			Minimum	78	63	5.6	9.8
		Average	82	68	7.1	13.7	
Niz-Tengakhat	1.	06/02/2009	89	73	4.3	13.9	
	2.	07/02/2009	63	54	6.3	12.7	
	3.	08/02/2009	69	10	5.6	13.4	
	4.	09/02/2009	69	57	5.2	7.4	
			Maximum	89	73	6.3	13.9
			Minimum	63	10	4.3	7.4
		Average	73	49	5.4	11.9	
Tengapani TE 316 Nlr Gt.	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	

Table 4.9 (Contd...)

Ambient Air Quality Monitoring Status

Location	Sl. No.	Date of Sampling	Concentration of Pollutants ($\mu\text{g}/\text{m}^3$)			
			SPM	RPM	SO ₂	NO _x
Bokul Maj Gaon	1.	18/02/2009	148	84	4.0	8.7
	2.	19/02/2009	58	48	3.9	10.1
	3.	20/02/2009	92	46	4.9	10.2
	4.	21/02/2009	66	24	5.0	9.7
		Maximum	148	84	5.0	10.2
		Minimum	58	24	3.9	8.7
		Average	91	51	4.5	9.7

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.