

The Arunachal Pradesh State Pollution Control Board (APSPCB), Itanagar, Department of Environment & Forests, Government of Arunachal Pradesh constituted under Environment Protection Act, 1986, a regulatory body vide No. FOR.55/Cons/91/1914-2144 dated 16/07/1993 analyzed the water and air quality in some parts of the state as its routine work. In the months of March and June, 2012. The APSPCB along in technical collaboration with Pollution Control Board, Assam conducted the water quality monitoring at various sampling stations like, Ganga river at Chandranagar, District Papumpare, Siang river at Komoli ghat, East Siang District, Tenga river(Dinko) at Tenga hat, West Kameng District, Kameng river(Forest Guest House) at Tippi, West Kameng district, at Natural Spring, Chandranagar, Papumpare district, Ganga river, Itanagar Papumpare district and Dikrong river at Nirjuli, Papumpare district. The findings/analysis report of the above mentioned stations and the status of the water quality in these rivers are furnished as given below:

<b>PHYSICAL PARAMETERS</b>	Ganga River, Itanagar	Dikrong river, Nitjuli	Natural spring, Chandranagar	Kameng River, Tippi, West Kameng	Tenga River at Tenga Hat	Siang River at komoli Ghat
	Collected on 11.6.2012 at 5 AM	Collected on 11.6.2012 at 5.40 AM	Collected on 11.6.2012 at 4.30 AM	Collected on 16.5.2012 at 4.15 PM	Collected on 11.6.2012 at 12.30 PM	Collected on 7.4.2012 at 10.35 AM
pH	6.85	6.75	6.75	7.3	7.9	7.2
DO(mg/L)	--	--	--	9.2	8.4	8.9
Conductivity (µmho/cm)	54.2	53.4	61.2	29.5	180	145
Temp(°C)	18	18	18	20	20	16
Turbidity(NTU)	32.2	14.4	8.2	3.2	3.5	6.6
Weather	Rainy	Rainy	Rainy	Clear	Clear	Clear
<b>CHEMICAL PARAMETERS</b>						
BOD	2.00	0.90	2.50	1.00	1.8	--
COD	4.50	3.0	7.5	3.04	4.56	--
P. Alkalinity as CaCO <sub>3</sub>	Nil	Nil	Nil	Nil	Nil	Nil
M. Alkalinity as CaCO <sub>3</sub>	24.0	30.0	44.0	24.0	90.0	44.0
T. Hardness as CaCO <sub>3</sub>	34.0	34.0	40.0	16.0	96.0	60.0
Calcium as CaCO <sub>3</sub>	20.0	20.0	22.0	10.0	64.0	40.0
Magnesium as CaCO <sub>3</sub>	14.0	14.0	18.0	6.0	32.0	20.0
Chloride as Cl	14.0	12.0	18.0	17.0	12.0	16.0

Sulphate as SO <sub>4</sub>	36.5	28.1	10.5	1.0	34.6	21.8
Nitrate as N	0.24	0.12	0.13	0.14	0.13	0.35
Phosphate as PO <sub>4</sub> <sup>-3</sup>	12.9	12.1	11.9	11.20	8.7	11.8
Total Dissolved Solids	40.0	42.0	48.0	26.00	122.0	102.0
Suspended Solids	10.0	10.0	14.0	4.0	11.0	14.0
Total Iron	0.42	0.38	0.50	0.14	0.38	0.32
Fluoride as F	0.19	0.13	0.14	0.13	0.12	0.17
Arsenic as As	0.003	0.003	0.002	0.002	0.002	0.003
Sodium as Na	6.20	5.30	8.50	0.40	2.70	3.60
Potassium as K	1.70	2.10	1.90	0.880	2.90	1.40
Total Coliform (MPN/100 ml)	NII	Nil	NII	NII	920	Nil
Fecal Coliform (MPN/100 ml)	NII	NIL	NII	NII	300	NIL

The Ambient Air quality was also analyzed in technical collaboration with the Pollution Control Board, Assam during 5<sup>th</sup> March, 2012, 6<sup>th</sup> March, 2012 and 15<sup>th</sup> April, 2012 at Ganaga Market, Barapani (Naharlagun), Roof top of Hotel Oman, Pasighat and at Forest Rest House, Bomdila, West Kameng district. The analysis report on SO<sub>2</sub> (μ/M<sup>3</sup>), NO<sub>2</sub>(μ/M<sup>3</sup>), PM<sub>10</sub> (μ/M) at the above mentioned stations are furnished as follows:

#### **Ambient Air Quality monitoring:**

Analysis Report of Ambient Air Quality monitoring samples collected from Itanagar, Naharlagun, Pasighat and Bomdila in Arunachal Pradesh

Sl. No	Date of Monitoring	Place/Location	SO <sub>2</sub> (μ/M <sup>3</sup> )	NO <sub>2</sub> (μ/M <sup>3</sup> )	PM <sub>10</sub> (μ/M <sup>3</sup> )	Weather
1.	05.04.2012	Ganga (Opposite to Clock Tower), Itanagar, Arunachal Pradesh	2.00	22.00	73.00	Partially Cloudy
2.	05.04.2012	Barapani Market Building, Naharlagun	2.00	14.00	124	Partially Cloudy
3.	06.04.2012	Roof top of Hotel Oman (Gandhi Chowk), Pasighat, Arunachal Pradesh	2.00	4.5	24.00	Partially Cloudy
4.	15.05.2012	Forest Rest House	2.00	14.00	95.00	Clear

		Bomdila, Arunachal Pradesh				
Sl. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air( $\mu$ /M <sup>3</sup> )			
			Industrial, Residential, Rural and other areas	Ecologically Sensitive Area (notified by Central Government)		
1	Sulphur Dioxide (SO <sub>2</sub> )	24 hours	80	80		
2	Nitrogen Dioxide (NO <sub>2</sub> )	24 hours	80	80		
	Particulate Matter (Size less than 10 $\mu$ /M or <b>PM10</b> )	24 hours	100	100		

The Arunachal Pradesh State Pollution Control Board would conduct the monitoring of water and Air quality in the state periodically. The report shall form a base line data for the future references. It is observed that pollution level as report indicated are within permissible limit but we should not complacent and efforts should be made to decrease pollution control activities in the state.