

BIHAR STATE POLLUTION CONTROL BOARD, PATNA							
Status of Ambient Air Quality of IGSC Planetarium, Patna							
Sl No.	Year-2016	Main pollutants & BTX Parameters 2016					
		CO in mg/m ³	SO ₂ in µg/m ³	NO ₂ in µg/m ³	O ₃ in µg/m ³	PM 2.5 in µg/m ³	Benzene in µg/m ³
		Avg	Avg	Avg	Avg	Avg	Avg
1	January	2.79	9.7	76.6	31.7	296.7	2.65
2	February	1.43	7.7	63.6	28.1	161.7	1.88
3	March	1.37	8.3	49.6	47.8	109.0	1.36
4	April	1.25	10.4	21.4	53.2	76.1	1.13
5	May	1.23	6.1	33.4	54.2	65.5	1.04
6	June	1.18	5.3	44.2	36.7	58.4	0.91
7	July	1.09	6.3	41.0	20.0	43.5	0.75
8	August	1.09	4.4	35.1	20.3	40.3	0.76
9	September	1.16	6.5	37.9	23.4	43.8	0.82
10	October	1.26	4.8	48.2	37.0	108.3	0.93
11	November	2.02	7.5	69.8	42.7	223.0	1.26
12	December	2.70	4.6	57.9	16.8	243.8	1.42
	Avg	1.55	6.80	48.23	34.33	122.51	1.24

BIHAR STATE POLLUTION CONTROL BOARD, PATNA								
Status of Ambient Air Quality of IGSC Planetarium, Patna								
Sl. No.	Year-2016	Meteorological Parameters - 2016						
		WS in m/s	WD in Degree	AT in °C	RH in %	BP in mmHg	SR in w/m ²	VWS in m/s
		Avg	Avg	Avg	Avg	Avg	Avg	Avg
1	January	0.3	182	15.6	73.4	755.5	467.7	-0.05
2	February	0.5	183.2	21.9	62.6	754.6	397.3	-0.05
3	March	0.4	196.6	28.3	50.6	753	450.3	-0.07
4	April	0.4	196.9	35.3	34.4	749.7	209	-0.09
5	May	0.4	126.8	27.6	65.4	749.4	180.4	-0.09
6	June	0.4	124.3	29.5	70.3	748.5	311.4	-0.09
7	July	0.4	131.7	26.1	83.9	747.8	353.2	-0.09
8	August	0.4	132.9	27.4	78.9	748.1	307.2	-0.09
9	September	0.3	146.1	25.2	86.5	749.9	349	-0.09
10	October	0.3	174.9	24.7	74.3	751.7	201.1	-0.09
11	November	0.3	186.1	18.5	68.1	753.9	438.7	-0.09
12	December	0.3	195.4	15.7	87.8	755.2	483.2	-0.09
	Avg	0.4	164.7	24.7	69.7	751.4	345.7	-0.08

Status of Ambient Air Quality at Patna during 2016

Sl. No.	Parameters	Annual Average concentration	Standards for residential, Rural and other areas
1	PM 2.5	122.51 $\mu\text{g}/\text{m}^3$	40 $\mu\text{g}/\text{m}^3$ Annual
2	CO	1.55 mg/m^3	02 mg/m^3 8hours 04 mg/m^3 1 hours
3	O ₃	34.33 $\mu\text{g}/\text{m}^3$	100 mg/m^3 8hours 180 mg/m^3 1 hours
4	SO ₂	6.80 $\mu\text{g}/\text{m}^3$	50 $\mu\text{g}/\text{m}^3$ Annual
5	NO ₂	48.23 $\mu\text{g}/\text{m}^3$	40 $\mu\text{g}/\text{m}^3$ Annual
6	Benzene	1.24 $\mu\text{g}/\text{m}^3$	05 $\mu\text{g}/\text{m}^3$ Annual

Status of Meteorological Parameters at Patna during 2016

Sl. No.	Parameters	Annual Average
1	WS	0.4 m/s
2	WD	164.7 Degree
3	AT	24.7 °C
4	RH	69.7 %
5	BP	751.4 mmHg
6	SR	345.7 w/m^2
7	VWS	-0.08 m/s

Air Quality Index of Patna in days during 2016

Sl.No.	Month	Good	Satisfactory	Moderate	Poor	Very Poor	Severe
1.	January	-	-	-	-	13	18
2.	February	-	-	02	07	18	01
3.	March	-	02	12	04	13	-
4.	April	-	04	20	05	01	-
5.	May	-	07	23	01	-	-
6.	June	-	14	16	-	-	-
7.	July	01	25	05	-	-	-
8.	August	01	26	04	-	-	-
9.	September	-	23	07	-	-	-
10	October	01	02	10	07	10	-
11.	November	-	-	-	03	16	11
12	December	-	-	-	-	21	10
Total		03	103	99	27	92	40