

Table I :- Comparative Data of Ambient Air Quality Monitoring in Commercial Area of Cities {24 Hr Average Values of RSPM, SO₂ & NO_x (µg/m³)} during Diwali Days (2011-2015).

Commercial Area of Cities																										
MONITORING DAYS	PARA METERS	MGG					PATIALA					JALANDHAR					LUDHIANA					AMRITSAR				
		2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
Diwali day	RSPM	285	292	250	241	204	234	238	196	179	132	325	294	270	261	221	489	648	549	546	289	370	358	370	353	296
Diwali day	SO ₂	21	20	18	16	10	14	10	9	4	6	22	24	21	20	17	26	24	18	24	18	22	21	20	19	18
Diwali day	NO _x	29	32	32	34	32	24	22	20	16	12	35	35	34	33	31	60	51	46	50	40	44	43	44	42	40

Permissible Limits :-

Parameter	Time Weighted Average	Concentration in Ambient Air	
		Commercial, Residential Areas	Sensitive Areas
RSPM (µg/m ³)	24 Hours	100	100
SO ₂ (µg/m ³)	24 Hours	80	80
NO _x (µg/m ³)	24 Hours	80	80

Table II :- Comparative Data of Ambient Air Quality Monitoring Residential Area of Cities {24 Hr Average Values of RSPM, SO₂ & NO_x (µg/m³)} during Diwali Days (2011-2015).

RESIDENTIAL AREA OF CITIES																										
MONITORING DAYS	PARA METERS	MGG					PATIALA					JALANDHAR					LUDHIANA					AMRITSAR				
		2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
Diwali day	RSPM	287	284	220	232	214	244	250	244	220	180	245	285	305	285	239	365	390	206	316	148	349	360	345	355	254
Diwali day	SO ₂	22	20	18	16	12	14	12	10	6	6	23	26	30	26	19	28	30	22	22	12	20	20	19	19	17
Diwali day	NO _x	31	40	38	34	34	24	24	22	20	15	32	33	34	36	34	46	45	40	38	31	40	39	38	40	35

Table III :- Comparative Data of Ambient Air Quality Monitoring in Sensitive Area of Cities {24 Hr Average Values of RSPM, SO₂ & NO_x (µg/m³)} during Diwali Days (2011-2015).

SENSITIVE AREA OF CITIES																										
MONITORING DAYS	PARA METERS	MGG					PATIALA					JALANDHAR					LUDHIANA					AMRITSAR				
		2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
Diwali day	RSPM	231	222	206	188	147	166	150	142	128	102	200	215	196	201	175	403	321	308	362	179	435	361	350	333	268
Diwali day	SO ₂	17	13	12	8	6	12	6	6	4	4	22	22	20	19	14	18	17	15	20	11	20	21	18	18	16
Diwali day	NO _x	23	26	26	22	24	20	19	18	16	12	32	33	32	30	28	50	36	32	42	27	41	41	39	38	36

Shri Darbar Sahib Amritsar

MONITORING DAYS	PARA METERS	2012	2013	2014	2015
Diwali day	RSPM	390	371	363	244
Diwali day	SO ₂	23	20	21	15
Diwali day	NO _x	43	41	40	34

Table IV :- Comparative Data of Noise Level Monitoring during Diwali Days (2011-2015).

Station	Residential					Sensitive					Commercial				
	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
Jalandhar	76	72.7	72	71	60	54	57.4	51	48	53	61.5	73.6	66	65	71
Ludhiana	78.3	74.1	70.8	75.4	66.3	77.8	73.4	72.9	74.7	69.1	84.5	80.5	78.6	78.3	72.1
Patiala	85.3	70.1	70.7	69.5	72.7	75.1	63.5	61.4	60.6	64.5	85.7	71.4	71.2	70.4	76.2
Amritsar	69.1	67	66	65	62	63.1	65	63	66	65	69.1	73	70	71	67
Mandi Gobindgarh	-	73.1	74.9	74.5	68	-	73.8	74.8	72	60	-	73.5	73.9	73.5	66