

**Table I :- Comparative Data of Ambient Air Quality Monitoring in Commercial Area of Cities {24 Hr Average Values of RSPM, SO<sub>2</sub> & NO<sub>x</sub> (µg/m<sup>3</sup>)} during Diwali Days (2011-2015).**

Commercial Area of Cities																										
MONITORING DAYS	PARAMETERS	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 <sub>2</sub>	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 <sub>x</sub>	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 <sup>3</sup> )	24 Hours	100	100
SO <sub>2</sub> (µg/m <sup>3</sup> )	24 Hours	80	80
NO <sub>x</sub> (µg/m <sup>3</sup> )	24 Hours	80	80

**Table II :- Comparative Data of Ambient Air Quality Monitoring Residential Area of Cities {24 Hr Average Values of RSPM, SO<sub>2</sub> & NO<sub>x</sub> (µg/m<sup>3</sup>)} during Diwali Days (2011-2015).**

<b>RESIDENTIAL AREA OF CITIES</b>																										
<b>MONITORING DAYS</b>	<b>PARA METERS</b>	<b>MGG</b>					<b>PATIALA</b>					<b>JALANDHAR</b>					<b>LUDHIANA</b>					<b>AMRITSAR</b>				
		<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Diwali day</b>	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
<b>Diwali day</b>	SO <sub>2</sub>	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
<b>Diwali day</b>	NO <sub>x</sub>	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, SO<sub>2</sub> & NO<sub>x</sub> (µg/m<sup>3</sup>)} 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 <sub>2</sub>	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 <sub>x</sub>	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 <sub>2</sub>	23	20	21	15
Diwali day	NO <sub>x</sub>	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
<b>Jalandhar</b>	76	72.7	72	71	60	54	57.4	51	48	53	61.5	73.6	66	65	71
<b>Ludhiana</b>	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
<b>Patiala</b>	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
<b>Amritsar</b>	69.1	67	66	65	62	63.1	65	63	66	65	69.1	73	70	71	67
<b>Mandi Gobindgarh</b>	-	73.1	74.9	74.5	68	-	73.8	74.8	72	60	-	73.5	73.9	73.5	66