

## **LIST OF FIGURES**

<b>Figure No.</b>	<b>Figure Content</b>	<b>Page no.</b>
1.1	Location Of The Study Area	26
1.2	Monitoring Locations	30
1.3	Scree Plot For 2005	44
1.4	Scree Plot For 2006	45
1.5	Scree Plot For 2007	46
1.6	Shaft diagram for 2005 showing no significant correlation of Meteorological Data with the Ambient Air Quality in the region.	47
1.7	Shaft diagram for 2006 showing significant correlation of Meteorological Data with the Ambient Air Quality in the region	48
1.8	Shaft diagram for 2007 showing no significant correlation of Meteorological Data with the Ambient Air Quality in the region	49
1.9	Scree Plot For 2005 Summer	51
1.10	Scree Plot For 2006 Summer	52
1.11	Scree Plot For 2007 Summer	53
1.12	Shaft diagram comparing the Summer data for 3 years	54
1.13	Representing Wind Rose For Summer Season 2005 - 2007	55
1.14	Wind Class Frequency Distribution For Summer	56
1.15	Isopleth For SO <sub>2</sub> Concentration In Summer 2005	57
1.16	Isopleth For SO <sub>2</sub> Concentration In Summer 2006	57
1.17	Isopleth For SO <sub>2</sub> Concentration In Summer 2007	57
1.18	Isopleth For NO <sub>x</sub> Concentration In Summer 2005	58
1.19	Isopleth For NO <sub>x</sub> Concentration In Summer 2006	58
1.20	Isopleth For NO <sub>x</sub> Concentration In Summer 2007	58
1.21	Isopleth For RSPM Concentration In Summer 2005	59
1.22	Isopleth For RSPM Concentration In Summer 2006	59
1.23	Isopleth For RSPM Concentration In Summer 2007	59
1.24	Scree Plot For 2006 Monsoon	62
1.25	Scree Plot For 2007 Monsoon	63
1.26	Shaft diagram comparing the Monsoon data for 3 years	64
1.27	Representing Wind Rose For Monsoon Season 2005 - 2007.	65
1.28	Wind Class Frequency Distribution For Monsoon	66
1.29	Isopleth For SO <sub>2</sub> Concentration In Monsoon 2005	67
1.30	Isopleth For SO <sub>2</sub> Concentration In Monsoon 2006	67
1.31	Isopleth For SO <sub>2</sub> Concentration In Monsoon 2007	67

<b>Figure No.</b>	<b>Figure Content</b>	<b>Page no.</b>
1.32	Isopleth For NO <sub>x</sub> Concentration In Monsoon 2005	68
1.33	Isopleth For NO <sub>x</sub> Concentration In Monsoon 2006	68
1.34	Isopleth For NO <sub>x</sub> Concentration In Monsoon 2007	68
1.35	Isopleth For RSPM Concentration In Monsoon 2005	69
1.36	Isopleth For RSPM Concentration In Monsoon 2006	69
1.37	Isopleth For RSPM Concentration In Monsoon 2007	69
1.38	Scree Plot For 2007 Winter	71
1.39	Shaft diagram comparing the Winter data for 3 years	72
1.40	Representing Wind Rose For Winter Season 2005 - 2007	73
1.41	Wind Class Frequency Distribution For Winter	74
1.42	Isopleth For SO <sub>2</sub> Concentration In Winter 2005	75
1.43	Isopleth For SO <sub>2</sub> Concentration In Winter 2006	75
1.44	Isopleth For SO <sub>2</sub> Concentration In Winter 2007	75
1.45	Isopleth For NO <sub>x</sub> Concentration In Winter 2005	76
1.46	Isopleth For NO <sub>x</sub> Concentration In Winter 2006	76
1.47	Isopleth For NO <sub>x</sub> Concentration In Winter 2007	76
1.48	Isopleth For RSPM Concentration In Winter 2005	77
1.49	Isopleth For RSPM Concentration In Winter 2006	77
1.50	Isopleth For RSPM Concentration In Winter 2007	77
2.1	Occurrence of COPD in the Collected Sample	91
2.2	Occurrence of Rhinitis in the Collected Sample	92
2.3	Occurrence of Asthma in the Collected Sample	92
3.1	Scree Plot For 2005	108
3.2	Scree Plot For 2006	108
3.3	Scree Plot For 2007	109
3.4	Scree Plot For 2008	109
3.5	Scree Plot For 2009	110
3.6	Scree Plot For 2010	110
3.7	Scree Plot For 2005 Summer	111
3.8	Scree Plot For 2006 Summer	111
3.9	Scree Plot For 2007 Summer	112
3.10	Scree Plot For 2008 Summer	112
3.11	Scree Plot For 2009 Summer	113
3.12	Scree Plot For 2010 Summer	113
3.13	Scree Plot For 2006 Monsoon	114
3.14	Scree Plot For 2007 Monsoon	114
3.15	Scree Plot For 2008 Monsoon	115

<b>Figure No.</b>	<b>Figure Content</b>	<b>Page no.</b>
3.16	Scree Plot For 2009 Monsoon	115
3.17	Scree Plot For 2010 Monsoon	116
3.18	Scree Plot For 2007 Winter	116
3.19	Scree Plot For 2008 Winter	117
3.20	Scree Plot For 2009 Winter	117
3.21	Scree Plot For 2010 Winter	118
4.1	Age Wise Occurrence of Asthma In Males And Females	149
4.2	Representing Wind Rose For Summer Season 2007 - 2010	158
4.3	Wind Class Frequency Distribution For Summer 2007 - 2010.	159
4.4	Isopleth For SO <sub>2</sub> Concentration In Summer 2007 - 2010.	160
4.5	Isopleth For NO <sub>x</sub> Concentration In Summer 2007 - 2010.	162
4.6	Isopleth For RSPM Concentration In Summer 2007 - 2010.	164
4.7	Representing Wind Rose For Monsoon Season 2007 - 2010	166
4.8	Wind Class Frequency Distribution For Monsoon 2007 - 2010.	167
4.9	Isopleth For SO <sub>2</sub> Concentration In Monsoon 2007 - 2010.	168
4.10	Isopleth For NO <sub>x</sub> Concentration In Monsoon 2007 - 2010.	170
4.11	Isopleth For RSPM Concentration In Monsoon 2007 - 2010.	172
4.12	Representing Wind Rose For Winter Season 2007 - 2010	174
4.13	Wind Class Frequency Distribution For Winter 2007 - 2010.	175
4.14	Isopleth For SO <sub>2</sub> Concentration In Winter 2007 - 2010.	176
4.15	Isopleth For NO <sub>x</sub> Concentration In Winter 2007 - 2010.	178
4.16	Isopleth For RSPM Concentration In Winter 2007 - 2010.	180
5.1	Peak Flow Meter	192