Ambient Air Quality Data of Delhi-NCR

For the Month of February, 2018





केन्द्रीय प्रदूषण नियंत्रण बोर्ड पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार

CENTRAL POLLUTION CONTROL BOARD

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Website: http://www.cpcb.nic.in

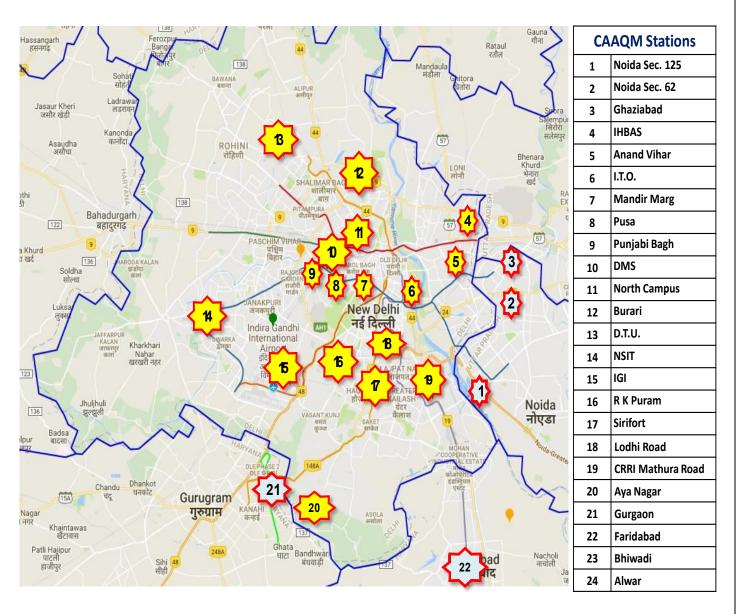
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Background: Ambient Air Quality of Delhi-NCR

In compliance to the direction of Hon'ble National Green Tribunal, Principal Bench, New Delhi Dated: November 17, 2017 (in the matter of Vardhman Kaushik Vs. Union of India & Others vide **OA No. 44/2018** Earlier OA No. 21/2014), the compiled ambient air quality data (of each monitored parameters) of Delhi-NCR with station wise daily average values of monitored parameters are presented in tabular for the period of February 01, 2018 to February 28, 2018 are complied. It is mentioned that the monitoring activity in Delhi-NCR is shared by Central Pollution Control Board, Delhi Pollution Control Committee, India Meteorological Department, Haryana PCB, Uttar Pradesh PCB and Rajasthan PCB using Continuous Ambient Air Quality Monitoring Stations (CAAQMS), as under:

Spatial location of Stations



Parameter-wise data tables

1. Particulate Matter (in μg/m³):

i) PM₁₀

a) CPCB/DPCC

Date/Stations	СРСВ			DPCC	
Date/Stations	ІТО	R K Puram	Anand Vihar	Mandir Marg	Punjabi Bagh
Land-Use Pattern	Traffic intersection	Residential	Commercial	Residential Area+Commercial Area	Industrial, Residential, Commercial area
1-Feb-18	238	336	442	292	370
2-Feb-18	186	311	330	253	272
3-Feb-18	175	247	259	226	238
4-Feb-18	177	225	290	216	251
5-Feb-18	201	290	430	268	307
6-Feb-18	138	264	313	256	262
7-Feb-18	179	275	317	229	250
8-Feb-18	294	363	576	293	374
9-Feb-18	270	396	609	293	370
10-Feb-18	327	435	790	302	516
11-Feb-18	196	299	395	204	288
12-Feb-18	120	149	147	136	154
13-Feb-18	147	173	243	138	203
14-Feb-18	118	168	221	141	148
15-Feb-18	140	206	221	176	165
16-Feb-18	197	236	288	210	229
17-Feb-18	211	260	345	243	267
18-Feb-18	209	252	396	213	274
19-Feb-18	222	288	746	289	365
20-Feb-18	271	374	762	290	356
21-Feb-18	257	376	856	354	378
22-Feb-18	220	344	590	287	355
23-Feb-18	247	370	538	344	377
24-Feb-18	237	356	420	331	404
25-Feb-18	75	197	302	207	204
26-Feb-18	88	209	249	212	143
27-Feb-18	178	198	280	180	202
28-Feb-18	212	279	387	270	298
Maximum	327	435	856	354	516
Minimum	75	149	147	136	143
Average	197	281	419	245	286

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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PM₁₀ (Continued)

b) SAFAR/IMD Delhi

Date/Stations	Burari crossing	North Campus	Pusa	Aya Nagar	CRRI Mathura Road	Lodhi Road	IGI airport T3
Land-Use Pattern	Residential + Commercial	Mixed area	Residential+Industrial	Industrial, Residential area	Commercial	Residential Area	
1-Feb-18	189	351	196	182	287	243	183
2-Feb-18	122	246	165	213	284	243	201
3-Feb-18	111	216	137	185	229	188	186
4-Feb-18	125	215	153	225	231	205	182
5-Feb-18	169	268	186	212	286	258	215
6-Feb-18	126	225	166	209	267	226	195
7-Feb-18	139	203	141	166	250	199	174
8-Feb-18	201	253	212	227	372	299	262
9-Feb-18	182	251	211	256	375	277	235
10-Feb-18	182	266	183	258	401	304	268
11-Feb-18	132	190	138	195	298	315	155
12-Feb-18	67	112	78	96	107	137	93
13-Feb-18	102	140	87	116	155	134	108
14-Feb-18	66	101	63	100	142	106	89
15-Feb-18	88	116	95	134	156	120	113
16-Feb-18	98	158	129	113	221	174	138
17-Feb-18	106	381	150	147	228	191	146
18-Feb-18	149	264	109	154	210	175	138
19-Feb-18	237	328	188	223	320	230	199
20-Feb-18	218	235	199	252	331	252	216
21-Feb-18	210	221	178	238	398	282	294
22-Feb-18	158	199	186	225	333	247	169
23-Feb-18	178	267	216	215	389	281	228
24-Feb-18	216	319	228	246	303	310	238
25-Feb-18	177	171	130	181	198	185	172
26-Feb-18	117	133	113	86	153	106	89
27-Feb-18	138	148	118	97	200	141	124
28-Feb-18	182	228	178	217	262	242	185
Maximum	237	381	228	258	401	315	294
Minimum	66	101	63	86	107	106	89
Average	149	222	155	185	264	217	178

PM₁₀ (Continued)

c) Delhi-NCR

Date/Stations	Bhiwadi ,RIICO Ind. Area III	Ghaziabad	Noida , Sec-62	Noida , Sec-125
Land-Use Pattern	Industrial area	Mixed	Industrial	Industrial
1-Feb-18	372	407	132	330
2-Feb-18	388	323	120	331
3-Feb-18	341	286	91	259
4-Feb-18	464	276	92	283
5-Feb-18	350	334	105	351
6-Feb-18	441	327	92	313
7-Feb-18	360	301	93	273
8-Feb-18	431	434	139	404
9-Feb-18	405	401	133	404
10-Feb-18	446	533	191	476
11-Feb-18	324	304	87	325
12-Feb-18	162	166	66	168
13-Feb-18	244	224	100	208
14-Feb-18	322	179	84	176
15-Feb-18	244	190	98	184
16-Feb-18	305	243	121	273
17-Feb-18	262	272	137	279
18-Feb-18	NA	287	139	245
19-Feb-18	NA	457	244	379
20-Feb-18	NA	421	201	393
21-Feb-18	NA	463	239	481
22-Feb-18	NA	377	213	378
23-Feb-18	NA	427	255	440
24-Feb-18	NA	372	231	368
25-Feb-18	NA	247	143	235
26-Feb-18	NA	121	83	181
27-Feb-18	NA	290	110	211
28-Feb-18	284	337	177	290
Maximum	464	533	255	481
Minimum	162	121	66	168
Average	341	321	140	308

ii) PM_{2.5}

a) CPCB/DPCC

Date/Stations				CPCB				DPCC		
Date/Stations	IHBAS	ITO	DMS	DTU	Sirifort	NSIT	Anand Vihar	Mandir Marg	R K Puram	Punjabi Bagh
Land-Use Pattern	Residential + Industrial	Traffic intersection	Mixed area	Residential & industrial	Residential + Mix	Residential	Commercial	Residential Area+Commercial Area	Residential	ndustrial, Residential, Commercial are
1-Feb-18	80	139	128	205	130	147	193	177	152	213
2-Feb-18	67	97	128	140	130	146	126	135	146	145
3-Feb-18	74	103	91	179	124	138	108	117	120	121
4-Feb-18	70	110	106	203	126	147	140	129	135	138
5-Feb-18	93	133	104	230	170	171	178	152	176	173
6-Feb-18	94	92	89	138	120	149	127	130	148	141
7-Feb-18	90	125	96	213	140	176	139	130	145	136
8-Feb-18	154	194	108	322	165	217	237	177	206	208
9-Feb-18	193	185	139	269	175	207	230	189	244	203
10-Feb-18	204	192	158	161	210	236	306	182	357	233
11-Feb-18	129	104	94	109	101	106	151	110	168	120
12-Feb-18	69	71	72	77	63	68	62	86	69	65
13-Feb-18	103	98	74	121	89	102	119	98	105	110
14-Feb-18	84	64	59	121	68	89	69	67	79	78
15-Feb-18	91	83	77	132	95	107	91	85	96	91
16-Feb-18	92	130	87	178	138	125	127	130	148	136
17-Feb-18	82	126	97	173	119	143	134	140	132	149
18-Feb-18	102	140	130	216	107	160	164	132	142	158
19-Feb-18	128	141	141	216	137	171	262	160	157	198
20-Feb-18	117	154	190	199	161	191	226	167	211	183
21-Feb-18	96	137	190	188		195	256	159	178	168
22-Feb-18	172	131	156	178	104	178	214	156	167	180
23-Feb-18	173	136	195	185	140	169	238	155	169	157
24-Feb-18	163	132	180	192	155	144	186	159	185	158
25-Feb-18	83	45	67	81	70	77	121	91	95	89
26-Feb-18	52	41	57	79	75	71	61	59	84	61
27-Feb-18	85	97	91	154	95	106	96	85	88	100
28-Feb-18	117	121	122	174	120	132	149	133	148	157
Maximum	204	194	195	322	210	236	306	189	357	233
Minimum	52	41	57	77	63	68	61	59	69	61
Average	109	119	115	173	123	145	161	132	152	145

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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PM_{2.5} (Continued)

b) SAFAR/IMD Delhi

Date/Stations	Aya Nagar	Burari crossing	CRRI Mathura Road	Lodhi Road	North Campus	Pusa	IGI Airport Terminal-3
Land-Use Pattern	Industrial, Residential area	Residential + Commercial	Commercial	Residential Area	Mixed area	Residential+Industrial	Commercial
1-Feb-18	109	118	251	104	191	93	98
2-Feb-18	128	76	111	94	114	73	100
3-Feb-18	111	70	None	70	96	71	85
4-Feb-18	135	78	None	78	110	67	98
5-Feb-18	127	106	159	117	159	89	111
6-Feb-18	125	79	161	95	135	80	97
7-Feb-18	100	87	168	75	108	62	98
8-Feb-18	136	126	284	124	167	102	133
9-Feb-18	153	114	307	121	161	115	136
10-Feb-18	155	114	206	126	157	93	136
11-Feb-18	117	82	135	105	129	69	79
12-Feb-18	57	42	72	52	63	41	49
13-Feb-18	70	64	119	67	101	59	68
14-Feb-18	60	41	96	52	94	52	58
15-Feb-18	80	55	135	47	109	69	79
16-Feb-18	68	61	173	74	109	71	88
17-Feb-18	88	66	165	85	99	76	85
18-Feb-18	92	93	188	66	91	63	82
19-Feb-18	134	148	219	101	137	90	112
20-Feb-18	151	136	218	113	86	94	112
21-Feb-18	143	131	198	112	117	94	119
22-Feb-18	135	99	184	110	116	78	123
23-Feb-18	129	111	172	123	103	95	107
24-Feb-18	148	135	211	131	113	100	116
25-Feb-18	109	111	91	80	59	54	90
26-Feb-18	52	73	81	39	51	30	51
27-Feb-18	58	86	116	56	86	55	61
28-Feb-18	130	114	192	90	127	82	101
Maximum	155	148	307	131	191	115	136
Minimum	52	41	72	39	51	30	49
Average	111	93	170	90	114	76	96

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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$PM_{2.5}$ (Continued)

c) Delhi-NCR

Date/Stations	Alwar,Moti Doongri	Bhiwadi ,RIICO Ind. Area III	Noida , Sec-62	Noida , Sec-125	Ghaziabad	Gurgaon, Vikas Sadan	Faridabad, Sec-16A
Land-Use Pattern	Industrial, Residential area	Industrial area	Industrial	Industrial	Residential	Industrial and Residential area	Industrial and Residential Area
1-Feb-18	77	153	79	157	218	118	113
2-Feb-18	81	203	72	156	151	110	145
3-Feb-18	48	149	55	116	117	82	111
4-Feb-18	62	167	55	138	132	97	128
5-Feb-18	91	144	63	172	163	106	149
6-Feb-18	74	202	55	139	143	116	145
7-Feb-18	26	105	56	126	137	102	129
8-Feb-18	38	189	84	191	243	146	176
9-Feb-18	49	190	80	207	207	127	198
10-Feb-18	59	219	115	243	2 66	163	217
11-Feb-18	47	154	52	143	133	125	158
12-Feb-18	26	25	39	82	71	55	255
13-Feb-18	47	129	60	120	131	58	275
14-Feb-18	41	136	51	73	72	61	72
15-Feb-18	49	96	59	84	96	62	98
16-Feb-18	NA	137	72	145	127	68	110
17-Feb-18	NA	119	82	133	141	80	102
18-Feb-18	NA	NA	84	124	150	86	105
19-Feb-18	NA	NA	147	169	244	128	220
20-Feb-18	40	NA	121	174	201	120	229
21-Feb-18	55	NA	144	203	212	155	216
22-Feb-18	66	NA	128	167	194	141	173
23-Feb-18	NA	NA	153	188	220	141	216
24-Feb-18	NA	NA	139	176	178	145	183
25-Feb-18	NA	NA	86	110	116	116	121
26-Feb-18	NA	NA	50	68	65	82	65
27-Feb-18	45	132	66	88	89	72	74
28-Feb-18	48	133	106	138	201	94	135
Maximum	91	219	153	243	266	163	275
Minimum	26	25	39	68	65	55	65
Average	53	146	84	144	158	106	154

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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2.SO₂ (in μ g/m³)

a) CPCB/DPCC

Date/Stations		СРСВ			DP	СС	
Date/Stations	IHBAS	DMS	NSIT	Anand Vihar	Mandir Marg	Punjabi Bagh	R K Puram
Land-Use Pattern	Commercial	Mixed area	Residential	Residential	Residential + Industrial	Industrial, Residential, Commercial area	Residential
1-Feb-18	16	15	10	30	26	42	46
2-Feb-18	11	15	11	27	16	22	35
3-Feb-18	10	11	9	30	11	22	28
4-Feb-18	10	13	10	30	7	24	35
5-Feb-18	16	15	11	31	7	25	63
6-Feb-18	12	13	8	35	9	26	38
7-Feb-18	11	17	9	25	12	27	48
8-Feb-18	11	16	10	18	31	26	22
9-Feb-18	13	20	11	20	29	31	31
10-Feb-18	19	22	13	28	29	18	22
11-Feb-18	10	9	8	36	21	19	20
12-Feb-18	7	6	4	27	8	23	11
13-Feb-18	8	6	6	29	14	19	13
14-Feb-18	10	8	5	26	8	13	13
15-Feb-18	10	8	7	28	10	20	18
16-Feb-18	11	10	8	29	15	21	32
17-Feb-18	12	12	9	28	17	34	39
18-Feb-18	16	14	9	28	15	28	27
19-Feb-18	14	15	11	32	25	39	28
20-Feb-18	11	17	12	30	26	29	62
21-Feb-18	20	15	12	29	36	25	34
22-Feb-18	14	15	10	24	28	29	40
23-Feb-18	14	16	14	28	23	27	34
24-Feb-18	9	12	12	24	22	25	19
25-Feb-18	10	8	8	28	15	18	25
26-Feb-18	9	8	8	19	9	20	20
27-Feb-18	11	12	12	18	6	27	16
28-Feb-18	15	16	12	24	17	28	52
Maximum	20	22	14	36	36	42	63
Minimum	7	6	4	18	6	13	11
Average	12	13	10	27	18	25	31

SO₂ (Continued)

b) Delhi-NCR

Date/Stations	Alwar,Moti Doongri	Bhiwadi ,RIICO Ind. Area III	Noida , Sec-125	Ghaziabad	Gurgaon, Vikas Sadan	Faridabad, Sec-16A
Land-Use Pattern	Industrial, Residential area	Industrial area	Industrial	Industrial	Industrial and Residential area	Industrial and Residential Area
1-Feb-18	11	71	35	44	10	14
2-Feb-18	10	56	25	63	6	14
3-Feb-18	14	141	32	52	8	19
4-Feb-18	16	47	22	51	9	11
5-Feb-18	10	47	28	51	9	16
6-Feb-18	25	127	32	76	13	12
7-Feb-18	13	58	24	44	11	12
8-Feb-18	20	123	25	57	12	22
9-Feb-18	24	87	33	62	11	28
10-Feb-18	21	74	31	51	12	29
11-Feb-18	5	77	40	40	9	29
12-Feb-18	5	48	16	16	9	4
13-Feb-18	11	67	18	34	7	12
14-Feb-18	7	82	15	47	5	5
15-Feb-18	7	54	18	38	9	11
16-Feb-18	NA	20	23	37	9	12
17-Feb-18	NA	6	24	34	9	11
18-Feb-18	NA	NA	20	29	8	10
19-Feb-18	NA	NA	27	41	10	19
20-Feb-18	13	NA	28	35	11	22
21-Feb-18	14	NA	45	54	11	34
22-Feb-18	15	NA	38	47	14	16
23-Feb-18	NA	NA	53	60	12	25
24-Feb-18	NA	NA	33	30	8	15
25-Feb-18	NA	NA	31	40	9	17
26-Feb-18	NA	NA	20	22	8	6
27-Feb-18	NA	67	21	28	9	6
28-Feb-18	11	48	36	44	8	20
Maximum	25	141	53	76	14	34
Minimum	5	6	15	16	5	4
Average	13	68	28	44	10	16

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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3. NO_2 (in $\mu g/m^3$)

a) CPCB/DPCC

Date/Stations		СРСВ							DPCC			
,	DMS	DTU	Sirifort	NSIT	ITO	IHBAS	Anand Vihar	Punjabi Bagh	R K Puram	Mandir Marg		
Land-Use Pattern	Mixed area	Residential & industrial	Residential + Mix	Residential	Traffic intersection	Residential + Industrial	Commercial	Industrial, Residential, Commercial area	Residential	Residential Area+Commercial Area		
1-Feb-18	77	22	81	77	65	62	106	98	47	61		
2-Feb-18	77	23	77	58	54	50	93	91	32	49		
3-Feb-18	65	23	70	55	42	46	90	94	26	45		
4-Feb-18	65	21	58	77	61	54	95	84	29	36		
5-Feb-18	66	20	77	59	62	65	125	102	70	52		
6-Feb-18	55	21	63	49	34	46	93	97	95	48		
7-Feb-18	59	19	75	39	85	59	106	90	95	41		
8-Feb-18	58	19	87	39	98	69	136	106	111	54		
9-Feb-18	52	16	100	36	124	65	127	108	112	58		
10-Feb-18	44	19	128	46	144	75	149	159	122	80		
11-Feb-18	32	21	65	32	68	46	91	133	83	68		
12-Feb-18	23	20	42	25	62	30	51	102	43	44		
13-Feb-18	23	26	53	30	45	37	78	121	59	47		
14-Feb-18	22	29	37	24	27	28	72	110	45	30		
15-Feb-18	24	30	45	27	32	41	82	110	54	35		
16-Feb-18	26	33	52	29	38	48	106	127	70	42		
17-Feb-18	25	34	53	30	38	50	98	124	78	47		
18-Feb-18	23	31	60	26	96	52	104	123	75	48		
19-Feb-18	24	32	70	29	83	71	139	128	87	58		
20-Feb-18	22	33	82	30	115	59	125	134	91	61		
21-Feb-18	25	35	NA	38	102	80	131	136	100	90		
22-Feb-18	25	34	72	28	77	63	115	91	88	61		
23-Feb-18	34	41	82	26	84	61	113	94	111	79		
24-Feb-18	28	40	54	31	72	53	79	107	89	74		
25-Feb-18	23	38	40	21	27	23	67	68	55	39		
26-Feb-18	22	38	42	19	29	25	70	55	45	27		
27-Feb-18	24	38	56	32	64	38	96	67	63	42		
28-Feb-18	26	40	53	33	65	39	106	79	81	62		
Maximum	77	41	128	77	144	80	149	159	122	90		
Minimum	22	16	37	19	27	23	51	55	26	27		
Average	38	28	66	37	68	51	101	105	73	53		

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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NO₂(Continued)

b) SAFAR/IMD Delhi

Date/Stations	Pusa	Burari crossing	North Campus	Lodhi Road	Aya Nagar	CRRI Mathura Road	IGI Airport Terminal-3
Land-Use Pattern	Residential+Industrial	Residential + Commercial	Mixed area	Residential Area	Industrial, Residential area	Commercial	Commercial
1-Feb-18	6	60	14	14	18	22	23
2-Feb-18	7	38	14	15	18	19	23
3-Feb-18	8	38	14	22	18	NA	24
4-Feb-18	7	39	15	22	17	NA	24
5-Feb-18	11	42	35	33	18	21	24
6-Feb-18	11	39	19	40	17	21	24
7-Feb-18	10	40	15	33	16	20	24
8-Feb-18	17	45	24	49	17	18	24
9-Feb-18	21	44	17	52	17	18	25
10-Feb-18	22	44	30	64	18	18	25
11-Feb-18	11	39	17	26	18	19	23
12-Feb-18	8	30	12	15	18	21	22
13-Feb-18	16	35	16	18	19	22	22
14-Feb-18	15	29	11	14	18	29	22
15-Feb-18	16	34	11	14	17	30	23
16-Feb-18	15	35	12	15	17	32	23
17-Feb-18	10	37	11	15	18	34	23
18-Feb-18	29	39	4	15	18	32	24
19-Feb-18	25	46	14	19	18	32	24
20-Feb-18	21	45	32	23	18	34	23
21-Feb-18	34	46	37	37	18	34	25
22-Feb-18	24	41	15	26	19	33	23
23-Feb-18	14	44	19	33	18	39	24
24-Feb-18	12	52	23	24	15	40	24
25-Feb-18	12	55	24	18	16	38	24
26-Feb-18	8	37	25	15	16	38	24
27-Feb-18	19	40	27	19	17	39	23
28-Feb-18	26	45	30	22	17	40	24
Maximum	34	60	37	64	19	40	25
Minimum	6	29	4	14	15	18	22
Average	15	41	19	25	17	29	24

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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NO₂(Continued)

c) Delhi-NCR

Date/Stations	Faridabad, Sec-16A	Gurgaon, Vikas Sadan	Bhiwadi ,RIICO Ind. Area III	Alwar,Moti Doongri	Noida , Sec-62	Noida , Sec-125	Ghaziabad
Land-Use Pattern	Industrial and Residential Area	Industrial and Residential area	Industrial area	Industrial, Residential area	Industrial	Industrial	Residential
1-Feb-18	68	25	50	61	12	99	96
2-Feb-18	62	22	40	45	12	85	80
3-Feb-18	62	22	39	26	12	82	83
4-Feb-18	62	18	49	65	12	73	82
5-Feb-18	72	18	42	88	12	96	98
6-Feb-18	78	18	39	59	13	85	88
7-Feb-18	72	16	49	36	12	76	81
8-Feb-18	87	17	44	62	12	104	94
9-Feb-18	95	18	46	35	12	101	101
10-Feb-18	94	16	36	14	11	112	96
11-Feb-18	68	16	40	16	13	57	77
12-Feb-18	47	16	25	10	13	20	41
13-Feb-18	62	15	35	22	13	53	68
14-Feb-18	53	18	45	23	13	36	60
15-Feb-18	55	16	90	21	12	42	62
16-Feb-18	62	17	125	NA	12	66	76
17-Feb-18	63	17	155	NA	12	68	81
18-Feb-18	62	17	NA	NA	12	62	79
19-Feb-18	70	15	NA	NA	10	92	105
20-Feb-18	74	16	NA	24	11	87	99
21-Feb-18	75	16	NA	61	10	86	108
22-Feb-18	84	16	NA	46	11	88	93
23-Feb-18	71	15	NA	NA	10	88	89
24-Feb-18	54	17	NA	NA	10	43	81
25-Feb-18	48	21	NA	NA	12	38	64
26-Feb-18	45	21	NA	NA	13	31	62
27-Feb-18	61	22	111	13	13	53	73
28-Feb-18	62	24	74	16	12	71	84
Maximum	95	25	155	70	13	112	108
Minimum	45	15	25	10	10	20	41
Average	67	18	60	39	12	71	82

4.Benzene (in μg/m³)

a) CPCB/DPCC/IMD

Date/Stations		СРСВ			DPCC		IMD/SAFAR
Date/Stations —	DMS	NSIT	Anand Vihar	R K Puram	Punjabi Bagh	Mandir Marg	North Campus
Land-Use Pattern	Mixed area	Residential	Commercial	Residential	Industrial, Residential, Commercial area	Residential Area+Commercial Area	Mixed area
1-Feb-18	5.2	7.0	5.6	5.3	3.4	2.6	2.1
2-Feb-18	5.2	3.9	3.8	7.9	1.6	3.0	1.7
3-Feb-18	2.3	3.9	3.5	6.6	0.9	2.1	1.0
4-Feb-18	3.0	7.0	3.4	4.4	1.0	1.6	1.4
5-Feb-18	3.2	6.0	4.2	6.0	1.3	2.3	2.4
6-Feb-18	2.3	3.7	3.5	5.5	1.7	2.2	2.7
7-Feb-18	3.9	2.1	3.9	5.0	2.2	2.3	1.7
8-Feb-18	6.0	4.2	7.4	7.9	2.4	3.1	3.7
9-Feb-18	8.8	4.1	4.6	8.9	2.5	3.4	2.6
10-Feb-18	12.4	8.4	6.4	10.8	5.2	4.6	5.1
11-Feb-18	1.8	1.6	4.5	8.2	1.4	3.0	2.5
12-Feb-18	1.4	0.8	1.5	2.8	0.5	1.4	1.0
13-Feb-18	1.3	1.6	3.7	5.1	1.1	2.0	1.6
14-Feb-18	2.5	1.5	2.2	3.0	1.1	1.9	0.8
15-Feb-18	3.5	1.6	2.8	4.0	1.7	1.6	0.9
16-Feb-18	3.9	1.9	4.2	5.3	1.6	2.0	1.4
17-Feb-18	4.7	2.1	4.3	5.6	1.9	2.3	1.6
18-Feb-18	5.3	3.2	4.6	6.1	1.5	1.6	1.5
19-Feb-18	7.7	2.9	9.1	7.8	2.7	2.8	2.9
20-Feb-18	8.8	4.8	8.5	7.9	3.9	3.5	1.9
21-Feb-18	6.1	3.9	8.1	10.8	2.4	3.9	3.9
22-Feb-18	6.2	3.7	7.8	11.2	2.0	3.1	1.7
23-Feb-18	5.4	3.8	8.0	11.5	1.4	3.1	
24-Feb-18	5.6	2.7	6.5	9.4	1.6	2.5	2.6
25-Feb-18	1.1	1.1	5.1	5.9	0.8	1.6	1.4
26-Feb-18	1.5	1.1	3.0	3.4	0.8	0.9	0.4
27-Feb-18	4.6	2.6	4.8	4.7	4.3	1.8	0.5
28-Feb-18	4.4	2.6	6.6	7.9	1.8	2.8	1.6
Maximum	12.4	8.4	9.1	11.5	5.2	4.6	5.1
Minimum	1.1	0.8	1.5	2.8	0.5	0.9	0.4
Average	4.6	3.3	5.0	6.7	2.0	2.5	2.0

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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Benzene (Continued)

b) Delhi-NCR

Date/Stations	Alwar, Moti Doongri	Bhiwadi ,RIICO Ind. Area III	Noida , Sec-125	Ghaziabad	Faridabad, Sec-16A
Land-Use Pattern	Industrial, Residential area	Industrial area	Industrial	Residential	Industrial and Residential Area
1-Feb-18	28.5	0.2	52.4	59.0	0.1
2-Feb-18	21.5	1.7	64.9	58.8	1.6
3-Feb-18	10.4	0.4	53.3	49.2	4.9
4-Feb-18	17.0	1.9	52.5	43.9	6.6
5-Feb-18	28.3	1.3	53.6	43.4	7.8
6-Feb-18	24.7	0.7	54.6	46.2	7.2
7-Feb-18	20.2	0.2	47.8	41.1	5.9
8-Feb-18	37.4	1.5	61.4	49.7	9.8
9-Feb-18	21.6	0.3	65.0	51.6	9.8
10-Feb-18	30.4	4.3	70.2	55.7	14.0
11-Feb-18	36.5	2.8	62.0	48.2	10.7
12-Feb-18	31.3	0.4	51.3	46.1	4.2
13-Feb-18	24.2	1.0	62.0	52.9	6.7
14-Feb-18	18.3	0.7	40.7	37.4	4.1
15-Feb-18	15.5	0.4	42.4	38.2	4.5
16-Feb-18	NA	1.1	51.3	41.1	5.6
17-Feb-18	NA	0.7	48.3	42.8	5.6
18-Feb-18	NA	NA	45.8	41.4	5.7
19-Feb-18	NA	NA	49.0	45.4	7.3
20-Feb-18	17.3	NA	56.1	48.4	7.7
21-Feb-18	37.6	NA	69.9	51.4	11.3
22-Feb-18	38.0	NA	81.3	58.8	11.2
23-Feb-18	NA	NA	81.5	59.6	12.6
24-Feb-18	NA	NA	79.2	55.1	8.8
25-Feb-18	NA	NA	59.8	49.4	6.1
26-Feb-18	NA	NA	47.0	42.1	3.3
27-Feb-18	18.0	NA	47.0	44.8	4.3
28-Feb-18	NA	NA	64.9	56.5	8.5
Maximum	38.0	4.3	81.5	59.6	14.0
Minimum	10.4	0.2	40.7	37.4	0.1
Average	25.1	1.2	57.7	48.5	7.0

5.CO (in mg/m³)

a) CPCB/DPCC

Date/Stations		СРСВ			DP	CC	
Date/Stations	NSIT	DMS	IHBAS	R K Puram	Anand Vihar	Mandir Marg	Punjabi Bagh
Land-Use Pattern	Residential	Mixed area	Commercial	Residential	Industrial, Residential, Commercial area	Residential Area+Commercial Area	Industrial, Residential, Commercial area
1-Feb-18	0.7	1.1	1.2	3.2	2.5	0.9	1.7
2-Feb-18	0.7	1.1	0.9	2.3	1.7	0.7	1.1
3-Feb-18	0.6	0.7	0.9	2.3	1.9	0.6	0.9
4-Feb-18	0.7	0.9	1.0	2.2	5.8	0.8	1.1
5-Feb-18	0.8	1.0	1.3	2.8	2.2	0.9	1.2
6-Feb-18	0.5	0.7	0.8	2.2	1.6	0.8	1.1
7-Feb-18	0.5	1.0	0.9	2.7	2.0	0.9	1.2
8-Feb-18	0.7	1.3	0.9	3.1	3.4	2.1	2.0
9-Feb-18	0.7	1.7	1.5	3.4	2.8	2.6	2.3
10-Feb-18	0.8	2.1	1.6	3.7	5.4	2.9	6.0
11-Feb-18	0.4	0.7	0.9	1.8	1.7	1.2	3.0
12-Feb-18	0.4	0.6	0.8	0.3	2.8	0.7	2.1
13-Feb-18	0.5	0.6	1.6	0.9	2.3	0.9	2.3
14-Feb-18	0.4	0.6	0.9	0.4	1.6	0.8	2.0
15-Feb-18	0.5	0.6	0.9	0.6	1.6	1.1	2.3
16-Feb-18	0.6	0.8	0.8	1.0	1.7	1.4	3.0
17-Feb-18	0.6	0.7	1.0	1.5	2.6	1.3	3.3
18-Feb-18	0.7	1.3	1.4	1.7	2.8	1.6	4.1
19-Feb-18	0.7	1.3	1.0	2.6	3.6	2.0	4.2
20-Feb-18	0.9	1.6	1.4	2.7	4.2	2.4	4.4
21-Feb-18	0.8	1.5	1.5	3.7	3.5	2.6	4.6
22-Feb-18	0.7	1.8	1.3	3.2	3.0	1.6	2.3
23-Feb-18	0.7	1.4	1.4	3.2	2.6	1.7	2.0
24-Feb-18	0.9	1.0	0.9	1.9	2.4	1.6	1.8
25-Feb-18	0.6	0.6	0.8	1.2	1.6	0.9	0.7
26-Feb-18	0.5	0.5	0.8	1.0	2.0	0.7	0.6
27-Feb-18	0.7	0.9	0.9	2.0	3.7	1.4	1.1
28-Feb-18	0.8	0.9	1.2	1.9	2.6	1.4	1.3
Maximum	0.9	2.1	1.6	3.7	5.8	2.9	6.0
Minimum	0.4	0.5	0.8	0.3	1.6	0.6	0.6
Average	0.6	1.0	1.1	2.1	2.7	1.4	2.3

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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CO(Continued)

b) SAFAR/IMD Delhi

Date/Stations	Burari crossing	North Campus	Lodhi Road	Aya Nagar	Pusa	CRRI Mathura Road	IGI Airport Terminal 3
Land-Use Pattern	Residential + Industrial	Mixed area	Residential Area	Industrial, Residential area	Residential+Industrial	Commercial	
1-Feb-18	0.8	1.33	0.7	1.1	1.4	1.3	1.6
2-Feb-18	0.9	1.7	0.5	1.2	1.5	1.1	1.5
3-Feb-18	1.0	1.6	0.6	1.1	1.3	1.0	1.5
4-Feb-18	0.9	1.4	1.2	1.1	1.3	0.9	1.4
5-Feb-18	0.8	1.1	1.0	1.1	1.6	0.9	1.4
6-Feb-18	0.9	1.1	1.0	1.1	1.6	1.0	1.4
7-Feb-18	0.9	1.1	1.8	1.0	1.3	0.9	1.4
8-Feb-18	0.8	1.0	2.5	1.1	1.6	0.9	1.4
9-Feb-18	0.8	1.0	2.2	1.1	1.8	0.8	1.3
10-Feb-18	0.8	1.1	3.2	1.1	2.2	0.6	1.4
11-Feb-18	1.0	1.0	2.4	1.1	1.3	0.8	1.5
12-Feb-18	1.7	1.1	1.4	1.1	0.9	1.0	1.6
13-Feb-18	1.1	1.0	1.6	1.2	1.1	1.2	1.7
14-Feb-18	1.6	1.1	1.2	1.1	1.0	1.4	1.6
15-Feb-18	1.1	1.1	1.2	1.1	1.1	2.7	1.5
16-Feb-18	1.1	1.1	1.5	1.0	1.3	2.1	1.5
17-Feb-18	1.0	1.2	1.6	1.1	1.5	1.1	1.5
18-Feb-18	1.0	1.2	1.7	1.1	1.5	1.0	1.5
19-Feb-18	0.8	1.2	2.5	1.1	2.1	1.7	1.4
20-Feb-18	0.8	1.2	2.3	1.1	2.1	1.4	1.5
21-Feb-18	0.7	1.3	2.7	1.2	2.4	1.3	1.4
22-Feb-18	0.9	1.4	2.0	1.2	2.0	1.3	1.5
23-Feb-18	0.8	1.3	1.7	1.1	2.1	1.2	1.4
24-Feb-18	0.7	1.5	1.0	0.9	2.2	1.2	1.4
25-Feb-18	0.7	1.4	0.8	1.0	1.9	1.3	1.4
26-Feb-18	1.0	1.4	0.6	1.0	1.7	1.5	1.5
27-Feb-18	0.9	1.5	2.1	1.0	1.9	NA	1.6
28-Feb-18	0.8	1.6	4.0	1.1	2.4	NA	1.4
Maximum	1.7	1.7	4.0	1.2	2.4	2.7	1.7
Minimum	0.7	1.0	0.5	0.9	0.9	0.6	1.3
Average	0.9	1.2	1.7	1.1	1.6	1.2	1.5

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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CO(Continued)

c) Delhi-NCR

Date/Stations	Bhiwadi ,RIICO Ind. Area III	Noida , Sec-62	Noida , Sec-125	Ghaziabad	Gurgaon,Vikas Sadan
Land-Use Pattern	Industrial area	Industrial	Industrial	Residential	Industrial and Residential area
1-Feb-18	0.8	2.3	1.7	1.4	0.9
2-Feb-18	1.0	2.1	1.6	1.0	0.6
3-Feb-18	0.8	2.0	1.1	0.9	0.5
4-Feb-18	0.6	2.2	1.1	0.9	0.6
5-Feb-18	0.6	2.3	1.7	1.1	0.7
6-Feb-18	0.6	2.1	1.4	0.9	0.7
7-Feb-18	0.6	2.2	1.3	1.0	0.9
8-Feb-18	1.0	2.0	2.6	1.7	0.5
9-Feb-18	0.8	2.2	2.3	1.6	1.3
10-Feb-18	1.2	1.7	3.5	3.1	1.2
11-Feb-18	0.6	2.2	1.4	1.0	1.1
12-Feb-18	0.6	2.2	0.6	0.8	0.4
13-Feb-18	0.7	2.2	1.2	1.1	0.9
14-Feb-18	0.5	2.3	0.5	0.6	0.8
15-Feb-18	0.7	2.3	0.8	0.7	0.7
16-Feb-18	0.7	2.4	1.2	1.0	0.7
17-Feb-18	0.7	2.4	1.2	1.1	0.7
18-Feb-18	NA	2.3	1.1	1.3	0.8
19-Feb-18	NA	2.0	2.5	2.3	0.8
20-Feb-18	NA	2.2	2.2	2.0	1.0
21-Feb-18	NA	2.1	2.7	2.4	0.6
22-Feb-18	NA	1.8	2.2	1.7	0.7
23-Feb-18	NA	1.9	2.5	1.7	0.8
24-Feb-18	NA	2.3	1.6	1.4	0.7
25-Feb-18	NA	2.3	0.9	0.9	0.7
26-Feb-18	NA	1.7	0.5	0.6	0.6
27-Feb-18	0.9	1.0	1.0	0.9	0.8
28-Feb-18	0.7	1.0	1.6	1.2	0.8
Maximum	1.2	2.4	3.5	3.1	1.3
Minimum	0.5	1.0	0.5	0.6	0.4
Average	0.7	2.1	1.6	1.3	0.8

6.Ozone (in μ g/m³)

a) CPCB/DPCC

		СРСВ		DP	СС	
Date/Stations	DMS	NSIT	Mandir Marg	Anand Vihar	Punjabi Bagh	R K Puram
Land-Use Pattern	Mixed area	Residential	Residential Area+Commercial Area	Commercial	Industrial, Residential, Commercial area	Residential
1-Feb-18	19	22	21	11	40	63
2-Feb-18	19	25	25	14	29	60
3-Feb-18	32	30	29	24	29	64
4-Feb-18	31	23	46	25	34	70
5-Feb-18	26	27	28	19	25	46
6-Feb-18	33	17	27	20	18	47
7-Feb-18	31	18	37	28	33	77
8-Feb-18	26	15	25	14	32	58
9-Feb-18	28	23	24	14	32	52
10-Feb-18	25	31	26	21	20	39
11-Feb-18	27	29	20	23	34	38
12-Feb-18	21	21	16	17	30	47
13-Feb-18	22	23	18	21	33	44
14-Feb-18	28	23	23	18	43	55
15-Feb-18	29	31	23	20	50	58
16-Feb-18	26	26	23	15	44	48
17-Feb-18	25	28	23	15	36	46
18-Feb-18	28	31	21	16	40	47
19-Feb-18	30	25	25	17	42	44
20-Feb-18	28	27	38	19	42	48
21-Feb-18	28	29	28	33	49	57
22-Feb-18	16	21	24	13	32	37
23-Feb-18	23	28	20	10	37	27
24-Feb-18	30	30	22	17	44	35
25-Feb-18	30	30	25	38	42	50
26-Feb-18	30	26	31	15	51	50
27-Feb-18	23	22	26	15	55	44
28-Feb-18	22	15	25	14	16	42
Maximum	33	31	46	38	55	77
Minimum	16	15	16	10	16	27
Average	26	25	26	19	36	50

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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Ozone (Continued)

b) SAFAR/IMD Delhi

Date/Stations	Aya Nagar	Burari Crossing	CRRI Mathura	IGI Airport Terminal-3	Lodhi Road	North Campus	Pusa
Land-Use Pattern	Industrial, Residential	Residential + Industrial	Commercial	Commercial	Residential Area	Mixed area	Residential+Industrial
	area						
1-Feb-18	35	31	31	30	21	27	68
2-Feb-18	33	23	36	31	15	26	65
3-Feb-18	38	22	36	33	17	29	67
4-Feb-18	42	24	37	35	18	31	63
5-Feb-18	40	29	42	35	21	28	72
6-Feb-18	40	24	35	33	21	24	76
7-Feb-18	48	25	38	35	18	24	90
8-Feb-18	41	33	46	36	17	21	61
9-Feb-18	43	31	46	38	18	21	83
10-Feb-18	43	31	64	38	18	21	93
11-Feb-18	38	24	47	33	16	21	63
12-Feb-18	32	16	34	27	14	19	111
13-Feb-18	31	21	35	29	15	22	83
14-Feb-18	35	16	26	28	16	19	107
15-Feb-18	39	19	10	30	18	19	111
16-Feb-18	43	20	20	31	16	18	40
17-Feb-18	38	21	35	30	17	18	95
18-Feb-18	39	27	40	34	22	18	83
19-Feb-18	40	38	30	36	22	18	92
20-Feb-18	40	35	27	34	21	18	102
21-Feb-18	42	34	30	37	21	19	101
22-Feb-18	35	28	25	31	21	18	83
23-Feb-18	44	30	33	36	27	20	92
24-Feb-18	50	28	29	37	31	28	144
25-Feb-18	48	17	28	34	28	22	98
26-Feb-18	43	23	21	31	28	23	101
27-Feb-18	42	25	23	30	24	26	77
28-Feb-18	39	29	26	34	25	32	
Maximum	50	38	64	38	31	32	144
Minimum	31	16	10	27	14	18	40
Average	40	26	33	33	20	23	86

Ozone (Continued)

c) Delhi-NCR

Date/Stations	Alwar, Moti Doongri	Noida , Sec-125	Ghaziabad	Faridabad, Sec-16A	Gurgaon, Vikas Sadan	Bhiwadi ,RIICO Ind. Area III
Land-Use Pattern	Industrial, Residential area	Industrial	Residential	Industrial and Residential Area	Industrial and Residential area	Industrial area
1-Feb-18	37	17	26	38	22	13
2-Feb-18	42	22	49	31	23	13
3-Feb-18	93	23	35	46	32	31
4-Feb-18	64	18	36	44	40	29
5-Feb-18	18	17	17 44 31 31		31	16
6-Feb-18	55	20	77	27	28	24
7-Feb-18	67	18	35	45	34	22
8-Feb-18	63	21	59	26	26	17
9-Feb-18	72	19	50	32	35	23
10-Feb-18	97	30	50	25	29	27
11-Feb-18	48	18	18	30	29	20
12-Feb-18	39	17	13	27	33	22
13-Feb-18	57	18	22	27	29	13
14-Feb-18	56	17	25	32	40	16
15-Feb-18	38	17	31	37	38	18
16-Feb-18	NA	16	23	35	35	15
17-Feb-18	NA	16	27	36	39	26
18-Feb-18	NA	17	23	44	40	NA
19-Feb-18	NA	23	49	41	34	NA
20-Feb-18	96	18	16	37	40	NA
21-Feb-18	58	21	30	33	47	NA
22-Feb-18	63	32	22	30	33	NA
23-Feb-18	NA	34	16	35	38	NA
24-Feb-18	NA	17	12	36	47	NA
25-Feb-18	NA	19	34	36	48	NA
26-Feb-18	NA	24	18	37	51	NA
27-Feb-18	NA	32	21	33	44	NA
28-Feb-18	NA	44	35	42	41	NA
Maximum	97	44	77	46	51	31
Minimum	18	16	12	25	22	13
Average	59	22	32	35	36	20

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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7.NH₃ (in μ g/m³)

a) CPCB/DPCC

		СРСВ				DPCC		
Date/Stations	IHBAS	ITO	DTU	Sirifort	Mandir Marg	Punjabi Bagh	Anand Vihar	R K Puram
Land-Use Pattern	Residential + Industrial	Traffic intersection	Residential & industrial	Residential + Mix	Residential Area+Commercial Area	Industrial, Residential, Commercial area	Commercial	Residential
1-Feb-18	91	57	47	56	29	66	70	16
2-Feb-18	83	55	46	46	27	57	67	15
3-Feb-18	69	52	47	41	23	48	52	13
4-Feb-18	74	44	47	39	24	50	49	12
5-Feb-18	70	67	46	53	22	50	57	38
6-Feb-18	63	46	46	37	23	49	54	44
7-Feb-18	71	51	46	61	23	46	40	44
8-Feb-18	85	122	46	74	23	54	77	43
9-Feb-18	97	91	46	91	32	54	73	48
10-Feb-18	107	179	46	129	21	51	87	42
11-Feb-18	71	97	46	54	21	50	77	37
12-Feb-18	65	51	46	32	31	51	57	34
13-Feb-18	74	57	54	34	38	57	58	35
14-Feb-18	58	27	56	20	30	48	42	28
15-Feb-18	72	30	57	26	20	53	47	31
16-Feb-18	65	37	58	29	24	58	56	41
17-Feb-18	68	37	58	31	23	61	54	41
18-Feb-18	76	58	60	49	21	59	52	40
19-Feb-18	69	110	44	53	19	59	78	36
20-Feb-18	73	94	41	79	20	62	81	41
21-Feb-18	112	139	45		18	63	89	35
22-Feb-18	91	77	41	66	23	60	95	43
23-Feb-18	92	88	40	64	24	63	93	46
24-Feb-18	74	83	40	36	29	71	77	52
25-Feb-18	45	36	37	22	26	63	55	43
26-Feb-18	40	27	36	22	23	56	46	38
27-Feb-18	50	45	37	38	23	56	47	34
28-Feb-18	54	65	38	35	26	64	66	47
Maximum	112	179	60	129	38	71	95	52
Minimum	40	27	36	20	18	46	40	12
Average	74	69	46	49	24	56	64	36

Maximum values are reported in RED for all respective stations & Minimum values are reported in GREEN for all respective stations

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NH₃ (Continued)

b) Delhi-NCR

Date/Stations	Noida , Sec-125	Bhiwadi ,RIICO Ind. Area III	Alwar,Moti Doongri
Land-Use Pattern	Industrial	Industrial area	Industrial, Residential area
1-Feb-18	52	4	29
2-Feb-18	65	6	21
3-Feb-18	53	7	10
4-Feb-18	53	4	17
5-Feb-18	54	3	28
6-Feb-18	55	8	25
7-Feb-18	48	4	20
8-Feb-18	61	3	37
9-Feb-18	65	3	22
10-Feb-18	70	4	30
11-Feb-18	62	2	36
12-Feb-18	51	2	31
13-Feb-18	62	1	24
14-Feb-18	41	1	18
15-Feb-18	42	23	16
16-Feb-18	51	39	NA
17-Feb-18	48	37	NA
18-Feb-18	46	NA	NA
19-Feb-18	49	NA	NA
20-Feb-18	56	NA	17
21-Feb-18	70	NA	38
22-Feb-18	81	NA	38
23-Feb-18	82	NA	NA
24-Feb-18	79	NA	NA
25-Feb-18	60	NA	NA
26-Feb-18	47	NA	NA
27-Feb-18	47	20	18
28-Feb-18	65	NA	NA
Maximum	82	39	38
Minimum	41	1	10
Average	58	10	25

Daily Meteorological data Vs. PM_{2.5} Profile - February 2018

					n ological dat			
					oncentration (μg/r			
S.No.	Station	31 January-01 February 18	(01-02) February 18	(02-03) February 18	(03-04) February 18	(04-05) February 18	(05-06) February 18	(06-07) February 18
1	IHBAS	80	66	71	70	83	94	89
2	DMS	130	117	99	91	113	93	92
3	NSIT	*	150	146	*	170	160	*
4	ITO	142	128	92	95	128	112	96
5	DTU	253	*	137	171	219	175	166
6	Sirifort	131	151	114	129	142	148	121
7	Anand Vihar	185	149	106	117	183	142	125
8	Mandir Marg)	173	151	121	123	148	137	128
9	R K puram	142	167	118	133	*	177	124
10	Punjabi Bagh	193	156	125	129	170	150	130
11	Burari Crossing	107	90	68	74	100	88	80
12	CRRI Mathura Road	123	153	105	119	144	152	125
13	North Campus	179	129	92	110	150	139	105
14	Pusa	89	89	64	67	87	82	63
15	Aya Nagar	112	127	115	129	127	135	103
16	Lodhi Road	99	108	74	76	106	106	77
17	Pitampura	*	*	*	*	*	*	*
18	IGI Airport Terminal-3	107	111	87	94	106	106	93
Average	PM2.5 Conc. (μg/m ³)	140	128 🗸	102 🗸	108 1	136 🔨	129 🗸	107 🗸
	rological parameters	31 January-01 February 18						
	xing Height (m)	622	450 🗸	721	680 🗸	598 🗸	554	636
Wi	nd Speed (m/s)	2.9	2.6	2.8	3.5	2.9	3.2	4.0
Te	mperature (^o C)	19.9	20.4	19.4 🗸	17.6	17.5 ↓	17.8	17.1 ↓
Relat	tive Humidity(%)	49.4	55.6	47.9 ↓	48.6	41.6	43.4	44.8
*Inadequ	uate data/Data not a	vailable						
Daily me	an values are compa	red with the previous va	alue					

				PM ₂ .	₅ Concentration (μ	g/m³)		
S.No.	Station	(07-08) February 18	(09-10) February 18	(10-11) February 18	(11-12) February 18	(12-13) February 18	(13-14) February 18	(14-15) February 18
1	IHBAS	96	207	174	73	98	69	61
2	DMS	106	168	121	93	76	61	66
3	NSIT	184	239	186	76	81	91	92
4	ITO	156	214	163	74	90	74	69
5	DTU	262	223	144	77	102	108	130
6	Sirifort	154	*	*	*	*	*	72
7	Anand Vihar	220	305	202	70	105	81	86
8	Mandir Marg)	166	182	121	92	87	81	78
9	R K puram	175	227	238	82	87	96	88
10	Punjabi Bagh	192	224	158	73	96	87	82
11	Burari Crossing	121	114	95	51	52	46	52
12	CRRI Mathura Road	182	222	199	71	74	104	72
13	North Campus	153	152	138	75	89	100	101
14	Pusa	89	89	80	41	57	46	67
15	Aya Nagar	129	139	151	57	60	67	70
16	Lodhi Road	113	129	113	64	62	52	48
17	Pitampura	*	*	*	*	*	*	*
18	IGI Airport Terminal-3	128	140	99	51	52	64	82
Average	PM2.5 Conc. (μg/m³)	154	186 🔨	149 🗸	70 ↓	79 🕇	77 🔨	77
Motoor	ological parameters	/07 09\ Fahmiam, 19	(00 10) Fahruary 19	/10 11\ Fahmion: 19	(11-12) February 18	(12 12) Fohmung 19	/12 14\ Fahmiam/19	/14 15\ Fohmum, 10
	ring Height (m)	608		•	730 ↑	783 ^	729 V	<u> </u>
	nd Speed (m/s)		575	595	 	<u> </u>	<u> </u>	778
		2.4	1.8	1.7	4.1	2.0	4.2	4.9
	nperature (^o C)	17.6	18.5	19.5	17.6 ♥	15.9	17.3	17.3
Relati	ive Humidity(%)	46.0	45.1	36.5 ↓	57.4	78.6	62.3 ♥	58.5 ↓
*Inadequ	ate data/Data not av	vailable						
Daily mea	an values are compa	red with the previ	ous value					

			PM _{2.5} Concentration (μg/m³)									
S.No.	Station	(15-16) February 18	(16-17) February 18	(17-18) February 18	(18-19) February 18	(19-20) February 18	(20-21) February 18	(21-22) February 18	(22-23) February 18			
1	IHBAS	106	86	84	129	102	110	33	225			
2	DMS	86	89	101	157	136	219	159	175			
3	NSIT	119	128	146	161	171	237	210	164			
4	ITO	108	130	120	148	144	150	140	124			
5	DTU	160	165	186	225	225	193	196	158			
6	Sirifort	111	114	124	121	149	154	*	*			
7	Anand Vihar	112	144	144	260	218	249	223	237			
8	Mandir Marg)	120	143	137	156	157	162	161	141			
9	R K puram	133	133	145	146	192	183	181	153			
10	Punjabi Bagh	127	154	149	196	176	175	182	143			
11	Burari Crossing	61	60	79	156	133	128	109	102			
12	CRRI Mathura Road	108	115	119	169	158	201	162	193			
13	North Campus	110	93	104	137	87	109	104	115			
14	Pusa	61	85	57	81	91	90	96	80			
15	Aya Nagar	*	83	100	123	137	149	133	*			
16	Lodhi Road	62	83	77	92	106	119	108	*			
17	Pitampura	*	*	*	*	*	*	*	*			
18	IGI Airport Terminal-3	81	86	87	102	*	109	139	96			
Average	PM2.5 Conc. (µg/m³)	104	111 🔨	115 1	151 1	149 🗸	161 \uparrow	146 🗸	150 🔨			
Meteor	ological parameters	(15-16) February 18	(16-17) February 18	(17-18) February 18	(18-19) February 18	(19-20) February 18	(20-21) February 18	(21-22) February 18	(22-23) February 18			
	ring Height (m)	687	695	753 ^	652	700 ↑	626 $\sqrt{}$	595	577			
	nd Speed (m/s)	3.0	3.5	*	*	*	*	*	*			
	mperature (°C)	18.8	19.6	20.0	20.5	21.3	23.3 1	24.3	25.0 1			
	ive Humidity(%)	61.4	60.7 ↓	59.7 ↓	47.1	49.1	47.1 🗸	53.9	53.9			
				·	•			•				
*Inadequ	ate data/Data not av	vailable										
Daily mea	an values are compa	red with the previ	ous value									

			with fire	corologicar a	iata	
S.No.	Station	PM _{2.5} Concentrat	ion (μg/m³)			
		(23-24) February 18	(24-25) February 18	(25-26) February 18	(26-27) February 18	(27-28) February 18
1	IHBAS	147	141	58	58	117
2	DMS	193	133	63	67	113
3	NSIT	151	126	67	73	124
4	ITO	134	98	41	49	139
5	DTU	200	125	84	97	200
7	Anand Vihar	179	163	68	78	146
8	Mandir Marg)	152	125	68	73	129
9	R K puram	193	131	85	75	145
10	Punjabi Bagh	162	126	66	82	161
11	Burari Crossing	122	*	79	79	114
12	CRRI Mathura Road	152	124	87	111	145
13	North Campus	109	84	50	*	*
14	Pusa	94	74	36	38	87
15	Aya Nagar	141	136	56	50	122
16	Lodhi Road	125	108	45	46	*
17	IGI Airport Terminal-3	109	116	54	49	101
Average	PM2.5 Conc. (μg/m³)	148	121 🗸	63 ↓	68 1	132 🔨
Meteo	rological parameters	(23-24) February 18	(24-25) February 18	(25-26) February 18	(26-27) February 18	(27-28) February 18
	xing Height (m)	670	839	1009 1	825 V	803 V
					<u> </u>	<u> </u>
	mperature (^O C)	25.0	23.8	21.8 🗸	22.9	24.5
Relat	tive Humidity(%)	48.2	54.0	62.5	55.2 ↓	59.7
*Inadequ	uate data/Data not av	/ailable				
Daily me	ean values are compa	red with the previ	ous value			

Comparison of Daily AQI values of Delhi (Feb, 2016-2018)

	Fe	b-16		F	eb-17	Fe	eb-18
Date/Months	AQI Index Values	Promir		AQI Index	Prominent Pollutants	AQI Index Values	Prominent
1	270	Polluta		Values 273	Pollutants PM2.5	273	Pollutants
2		PM2.5 PM2.5,PM10					PM10, PM2.5
3	268			338	PM2.5, PM10		PM2.5, PM10
4	284	PM2.5,F		330	PM2.5, PM10		PM2.5
5	274	PM2.5,F		344 298	PM2.5, PM10		PM2.5
6	337	PM2.5,F			PM2.5	259	PM10, PM2.5
7	362	PM2.5,F		349 162	PM2.5, PM10		PM2.5, PM10 PM2.5
8	337	PM2			PM2.5, PM10		
9	301	PM2		268	PM2.5, PM10		PM2.5
10	313	PM2		276	PM2.5, PM10		PM2.5, PM10
11	362	PM2		245	PM2.5, PM10	_	PM2.5, PM10
12	313	PM2		251	PM2.5, PM10		PM.5, PM10
13	361	CO,PN		275	PM2.5	154	PM2.5, NO2
14	306	PM2		275	PM2.5, PM10		PM2.5, PM10
15	230	PM2		300	PM2.5, PM10		PM2.5, PM10
16	245	PM2.5		297	PM2.5, PM10		PM2.5, PM10
	269	PM2.5		288	PM2.5, PM10		PM2.5, PM10
17	265	PM2		280	PM2.5, PM10		PM2.5, PM10
18	285	PM2		245	PM2.5, PM10		PM2.5, PM10
19	372	PM2		257	PM2.5, PM10		PM2.5, PM10
20	322	PM2		260	PM2.5	279	PM2.5, PM10
21	186	PM2.5, I		259	PM2.5, PM10		PM2.5, PM10
22	230	PM2.5		245	PM2.5, PM10		PM2.5, PM10
23	217	PM2.5		182	PM2.5	287	PM2.5, NO2
24	305	PM2.5, I	PM10	205	PM2.5	300	PM2.5, PM10
25	285	PM2.5, I	PM10	207	PM2.5	250	PM2.5
26	277	PM2.5	, O3	256	PM2.5	140	PM2.5
27	317	PM2.5,F	PM10	233	PM2.5, NO2	141	PM2.5, PM10
28	306	PM2.5	, O3	278	PM2.5, O3	259	PM2.5
29	301	PM2.5	, 03				
Max	372			349		320	
Min	186			162		140	
Average	293			267		243	
Good	Satisfa	ctory	Mo	derate	Poor	Very Poor	Severe
(0-50)	(51–1	LUU)	(10:	L-200)	(201–300)	(301–400)	(>401)

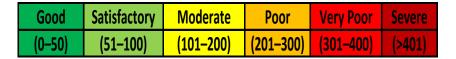
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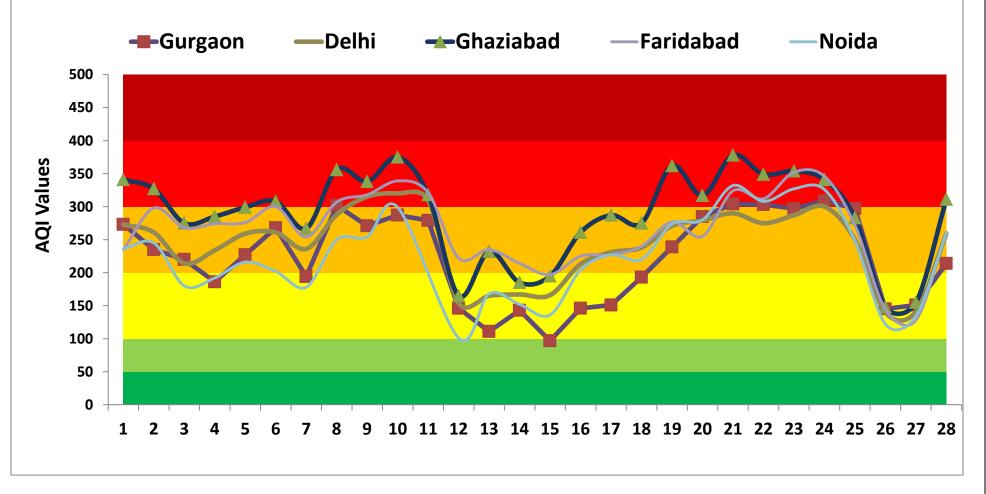
Daily AQI values of Delhi-NCR (February, 2018)

Date/Cities	Delhi	Gurgaon	Ghaziabad	Faridabad	Noida	Alwar	Bhiwadi
1-Feb-18	273	273	341	235	236	135	340
2-Feb-18	261	235	327	298	245	179	348
3-Feb-18	214	220	275	268	180	*	*
4-Feb-18	234	186	285	274	192	*	*
5-Feb-18	259	227	299	276	216	172	332
6-Feb-18	261	268	308	300	202	*	*
7-Feb-18	236	194	267	254	178	*	*
8-Feb-18	288	302	356	307	250	*	*
9-Feb-18	315	271	338	318	254	*	*
10-Feb-18	320	287	375	339	299	*	362
11-Feb-18	310	279	318	321	*	*	342
12-Feb-18	154	146	165	222	101	*	153
13-Feb-18	165	111	232	235	168	*	207
14-Feb-18	167	143	185	214	152	69	303
15-Feb-18	166	97	195	197	136	*	225
16-Feb-18	213	146	261	225	204	*	280
17-Feb-18	231	151	287	227	227	*	289
18-Feb-18	238	193	275	240	220	*	*
19-Feb-18	271	239	362	277	274	*	*
20-Feb-18	279	255	317	285	280	*	*
21-Feb-18	290	304	378	324	332	*	*
22-Feb-18	275	303	349	312	308	*	*
23-Feb-18	287	297	354	352	327	*	*
24-Feb-18	300	309	341	346	32 6	*	*
25-Feb-18	250	297	283	272	248	*	*
26-Feb-18	140	145	148	144	122	*	*
27-Feb-18	141	151	155	128	134	*	*
28-Feb-18	259	214	311	261	260	*	*
Max	320	309	378	352	332	179	362
Min	140	97	148	128	101	69	153
Average	243	223	289	266	225	139	289

Good	Satisfactory	Moderate	Poor	Very Poor	Severe
(0-50)	(51–100)	(101–200)	(201–300)	(301–400)	(>401)

AQI Trend Delhi-NCR, February 2018





Results & Discussion:

- \triangleright Particulate Matter (PM_{2.5}/ PM₁₀): Exceeded the permissible limits in all stations across Delhi-NCR as per NAAQS 2009.
- Nitrogen Dioxide (NO₂): Exceeded the permissible limits at 10 out of 23 Stations in Delhi-NCR [Anand Vihar (22 Days), Punjabi Bagh (24 Days), R K Puram(13 Days), Sirifort (01 Days), ITO(04 Days), Mandir Marg (02 Days), Bhiwadi (04 Days), Noida Sec.125 (13 Days), Gahziabad(16 Days) and Faridabad (04 Days)].
- Benzene: Standard for this parameter is defined annually in NAAQS 2009, therefore it's exceedence cannot be determined based on 24 hr or monthly data, but NCR Station at Ghaziabad and Noida sector 125 Delhi has shown high values of this parameter, (37 μg/m³-60 μg/m³) & (41 μg/m³-82 μg/m³) respectively so Data is placed under scrutiny.
- ➤ Sulphur Dioxide (SO₂): Recorded within permissible limit in February except exceedence recorded at Bhiwadi station for five times in the month.
- Ammonia: Within the permissible limits in all stations across Delhi-NCR as per NAAQS 2009 Standard.
- > Carbon Monoxide (CO): Exceeded the permissible limits of 8 hourly at five Stations (Mandir Marg, Anand Vihar, Lodhi Road, Punjabi Bagh and R K Puram) in Delhi and also at two stations (Noida-125 and Ghaziabad) in NCR as per NAAQS 2009.
- ➤ Ozone (O₃): Recorded within permissible limit in February except at Pusa, exceedence recorded for Seven days in the month. Hence, the ozone concentration is within permissible limit in Delhi-NCR.

Air Quality Index

Daily City wise AQI values for Delhi-NCR for the month of February is presented in Table-1. AQI of Delhi was found largely lying between moderate to poor category. However, Ghaziabad has recorded 14 very poor days. In other areas, majority of the days were in Moderate to poor category.

	Table-1 AQI Values of Delhi-NCR for the month of February 2018											
AQI Categories	Range	Delhi	Faridabad	Ghaziabad	Gurgaon	Noida	Bhiwadi	Alwar				
Good	(0–50)	*	*	*	*	*	*	*				
Satisfactory	(51–100)	*	*	*	1	*	*	1				
Moderate	(101–200)	6	3	5	10	9	1	3				
Poor	(201–300)	18	17	9	13	14	4	*				
Very Poor	(301–400)	4	8	14	4	4	6	*				
Severe	(>401)	*	*	*	*	*	*	*				

Ambient Air Quality Parameters

The concentration ranges for pollutants having 24 hourly standard limits are presented in Table-2.

Table-2 Ra	Table-2 Range of 24-hourly Averages for All Standard Parameters in February 2018 Delhi-NCR													
Parameters/Lan	De	lhi	Farid	labad	Ghaz	iabad	Gur	gaon	Noi	ida	Bhiv	vadi	Al	war
d-Use Pattern	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
$PM_{2.5}(\mu g/m^3)$	30	357	65	275	26	91	55	163	39	243	25	229	26	91
$PM_{10} (\mu g/m^3)$	63	856	*	*	121	533	*	*	66	481	162	464	*	*
$SO_2 (\mu g/m^3)$	4	63	4	34	16	76	5	14	15	53	6	141	5	25
NO ₂ (μg/m ³)	4	159	45	95	41	108	15	25	10	112	25	155	10	70
NH ₃ (μg/m ³)	12	179	*	*	*	*	*	*	41	82	1	39	10	38

Note: '*'indicate Insufficient data or parameter not measured

CO, Ozone and Benzene not included as there is no 24 hourly permissible limits in NAAQS

Meteorological Parameters

Monthly average mixing height was 685 meters. The range for daily average mixing height was observed from 450 meters to 1009 meters. Daily average wind speed was observed 1.7 m/s - 4.9 m/s. Monthly average temperature was 20.1 °C with minimum daily average as 15.9 °C and maximum as 25.0 °C recorded. Monthly average relative humidity was 52.9% with maximum daily average as 78.6 % and minimum as 36.5% recorded. Prominent wind direction in February 2018 was north- west followed by North.

Range of Monthly Average for Metrological Parameters in Delhi, February 2018								
Parameters(Unit)	MAX	MIN						
Mixing Height (m)	1009	450						
Wind Speed(m/s)	4.9	1.7						
Temperature(degree Celsius)	25.0	15.9						
Relative Humidity (%)	78.6	36.5						

Recommendations:

- ➤ Particulates (PM_{2.5}/PM₁₀) are the main issue of concern necessary steps to control dust emission from roads, construction activity, traffic and industries may be strictly adopted as specified in GRAP for respective categories.
- ➤ Higher CO levels at some stations invites intervention at local level for better traffic management which in turn may give positive impact on NO₂ levels also.
- ➤ Higher Benzene level at Ghaziabad and Noida sector 125 require identification and management of combustion and evaporation of benzene related sources.

NATIONAL AMBIENT AIR QUALITY STANDARD (2009)

		Concentration in Ambient Air						
Pollutant	Time Weighted Average	Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement				
CO/r=3	Annual*	50	20	Improved West and Gaeke				
SO ₂ , μg/m ³	24 hours**	80	80	Ultraviolet fluorescence				
	Annual*	40	30	Madified leach Ollashbaican (No Arcanita)				
NO_2 , $\mu g/m^3$	24 hours**	80	80	 Modified Jacob &Hochheiser (Na-Arsenite) Chemiluminescence 				
	Annual*	60	60	Gravimetric				
PM ₁₀ , μg/m ³	24 hours**	100	100	TOEM Beta attenuation				
	Annual*	40	40	Gravimetric				
PM _{2.5} , μg/m ³	24 hours**	60	60	TOEM Beta attenuation				
	8 hours**	100	100	UV photometric				
O ₃ , μg/m ³	1 hour**	180	180	Chemiluminescence Chemical Method				
	Annual*	0.50	0.50	AAS/ICP method after sampling on EMP 2000 or				
Lead (Pb), µg/m³	24 hours**	1	1	equivalent filter paperED-XRF using Teflon filter				
	8 hours**	2	2					
CO, mg/m ³	1 hour**	4	4	Non Dispersive Infra Red (NDIR) spectrosopy				
	Annual*	100	100					
Ammonia (NH ₃) μg/m ³	24 hours**	400	400	 Chemiluminescence Indophenol blue method 				
Benzene	Annual*	5	5	 Gas chromatography based on continuous analyzer Adsorption and Desorption followed by GC analysis 				
Benzopyrene (BaP) - particulate phase only, ng/m³	Annual*	1	1	Solvent extraction followed by HPLC/GC analysis				
Arsenic (As), ng/m ³	Annual*	6	6	AAS/ICP method after sampling on EMP 2000 or equivalent filter paper				
Nickel (Ni), ng/m ³	Annual*	20	20	AAS/ICP method after sampling on EMP 2000 or equivalent filter paper				

^{*} Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be compiled with 98% of the time in a year. 2% of the time, theymay exceed the limits but not on two consecutive days of monitoring.

Note - Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

ANNEXURE -II

Delhi CAAQM Stations

S. No.	State	No. of stations at each State	Stations	(CPCB/SPCBs)	Parameters Monitored
			Income Tax Office	CPCB Delhi	NO2, PM2.5, NH3
			DCE	CPCB Delhi	NO2, PM2.5, NH3
			Shadipur	CPCB Delhi (O&M)	SO2, NO2, PM2.5, CO, O3, Benzene
			IHBAS	CPCB Delhi (O&M)	SO2, NO2, PM2.5, NH3, CO
			NSIT Dwarka	CPCB Delhi (O&M)	SO2, NO2, PM2.5, CO, O3
		Sirifort	CPCB Delhi	NO2, PM2.5, NH3	
		17	MandirMarg	DPCC Delhi	PM10, SO2, NO2, PM2.5, NH3, CO, O3, Benzene
			AnandVihar	DPCC Delhi	PM10, SO2, NO2, PM2.5, O3, Benzene
1.	Delhi		R. K. Puram	DPCC Delhi	PM10, SO2, NO2, PM2.5, NH3, CO, O3, Benzene
			Punjabi Bagh	DPCC Delhi	PM10, SO2, NO2, PM2.5, NH3, CO, O3, Benzene
			Burari Crossing	SAFAR/IMD Delhi	NO ₂ , CO, O ₃ , PM _{2.5} , PM ₁₀
			CRRI Mathura Road	SAFAR/IMD Delhi	NO ₂ , CO, O ₃ , PM _{2.5} , PM ₁₀
			North Campus	SAFAR/IMD Delhi	NO ₂ , CO, O ₃ , PM _{2.5} , PM _{10,} Benzene
			Pusa	SAFAR/IMD Delhi	NO ₂ , CO, O ₃ , PM _{2.5} , PM ₁₀
			Aya Nagar	SAFAR/IMD Delhi	NO ₂ , CO, O ₃ , PM _{2.5} , PM ₁₀
			Lodhi Road	SAFAR/IMD Delhi	NO ₂ , CO, O ₃ , PM _{2.5} , PM ₁₀
			IGI Airport Terminal-3	SAFAR/IMD Delhi	NO ₂ , CO, O ₃ , PM _{2.5} , PM ₁₀

ANNEXURE -III

Delhi-NCR CAAQM Stations

S. No.	States	Cities	No. of stations at each State	Stations	(CPCB/SPCBs)	Parameters Monitored
1.				Sector-62	IMD	PM10, NO2, PM2.5, CO, O3
	Uttar Pradesh	Noida	2	Sector-125	UPPCB	PM10, SO2, NO2, PM2.5, NH3, CO, O3, Benzene
		Ghaziaba d	1	Vasundhara	UPPCB	PM10, SO2, NO2, PM2.5, NH3, CO, O3, Benzene
2.	Harayana	Gurugram	1	VikasSadan	НРРСВ	SO2, NO2, PM2.5, CO, O3, Benzene
		Faridabad	1	Sector-16 A	НРРСВ	SO2, NO2, PM2.5, NH3, CO, O3, Benzene
3.	Rajasthan	Alwar	1	Moti Dungri	RSPCB	PM10, SO2, NO2, PM2.5, NH3, CO, O3, Benzene
		Bhiwadi	1	RICO Industrial Area III	RSPCB	PM10, SO2, NO2, PM2.5, NH3, CO, O3 Benzene