Ambient Air Quality Data of Delhi-NCR

For the Month of November, 2017



AIR LABORATORY



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

CENTRAL POLLUTION CONTROL BOARD

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

Index

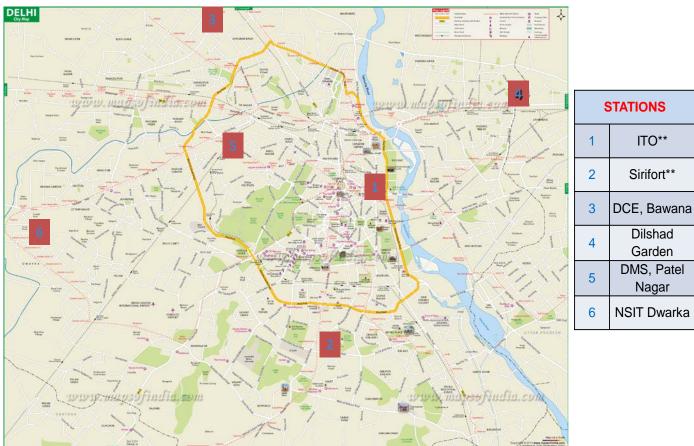
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Background: Ambient Air Quality of Delhi-NCR

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. 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 November 01, 2017 to November 30, 2017 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 : CPCB

SPATIAL LOCATION OF CONTINOUS AMBIENT AIR QUALITY MONITORING STATIONS IN DELHI OPERARTED BY CPCB



Note: Map not to scale and locations are indicative only w.r.t. directions & location

Spatial location of Stations : DPCC

SPATIAL LOCATION OF CONTINOUS AMBIENT AIR QUALITY MONITORING STATIONS IN DELHI OPERARTED BY DPCC



Note: Map not to scale and locations are indicative only w.r.t. directions & location

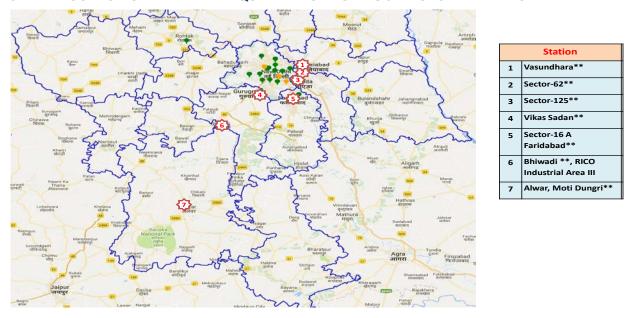
Spatial location of Stations: SAFAR/IMD

SPATIAL LOCATION OF CONTINOUS AMBIENT AIR QUALITY MONITORING STATIONS IN DELHI OPERATED BY SAFAR



Spatial location of Stations : Delhi-NCR

SPATIAL LOCATION OF AMBIENT AIR QUALITY MONITORING STATIONS IN DELHI-NCR



Note: Map not to scale and locations are indicative only w.r.t. directions & location **Continuous & Manual ; * Manual

Parameter-wise data tables

1.Particulate Matter(in μg/m³):

i) PM₁₀

Date/Stations	Anand Vihar	Mandir Marg	R K Puram	Punjabi Bagh	Burari crossing	CRRI Mathura Road	North Campus	Pusa	ITO
1 November 2017	347	292	369	383	269	249	275	268	NA
2 November 2017	332	243	328	336	189	253	243	220	NA
3 November 2017	405	299	357	377	261	274	273	228	NA
4 November 2017	540	249	401	383	260	296	290	213	NA
5 November 2017	645	294	410	423	253	393	339	279	NA
6 November 2017	556	315	394	497	314	342	376	271	NA
7 November 2017	440	684	765	≥1000	584	677	871	690	NA
8 November 2017	NA	823	935	≥1000	857	722	≥1000	918	NA
9 November 2017	NA	681	817	909	NA	NA	703	586	NA
10 November 2017	329	489	622	705	356	185	471	453	NA
11 November 2017	NA	521	635	717	455	518	569	467	NA
12 November 2017	NA	620	774	860	519	600	664	585	NA
13 November 2017	NA	515	614	713	386	444	501	465	NA
14 November 2017	NA	405	473	447	302	321	367	347	254
15 November 2017	283	314	387	380	268	256	307	269	219
16 November 2017	341	301	368	370	210	295	265	256	185
17 November 2017	304	234	274	280	194	251	221	185	152
18 November 2017	340	220	252	250	181	245	201	173	144
19 November 2017	276	192	250	229	182	229	186	162	127
20 November 2017	304	240	343	287	214	272	239	197	181
21 November 2017	325	266	343	350	234	286	255	227	209
22 November 2017	296	272	347	343	232	296	260	232	222
23 November 2017	274	283	381	326	219	284	256	228	205
24 November 2017	NA	322	360	398	210	297	290	172	213
25 November 2017	NA	270	417	384	198	318	285	NA	212
26 November 2017	628	343	450	451	267	419	345	28	241
27 November 2017	612	306	455	385	223	336	302	NA	191
28 November 2017	533	243	454	265	216	334	273	72	141
29 November 2017	520	324	472	376	317	463	389	239	176
30 November 2017	613	268	471	NA	241	482	308	283	170
Maximum	645	823	935	909	857	722	871	918	254
Minimum	274	192	250	229	181	185	186	28	127
Average	420	361	464	438	297	356	356	311	191

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Date/Stations	Aya Nagar	Lodhi Road	IGI Airport Terminal-3	Bhiwadi ,RIICO Ind. Area III	Alwar, Moti Doongri	Noida , Sec-62	Noida , Sec-125	Ghaziabad
1 November 2017	289	303	268	393	314	261	309	371
2 November 2017	213	290	232	361	162	223	390	355
3 November 2017	324	302	235	361	208	249	425	392
4 November 2017	258	303	258	312	228	291	444	493
5 November 2017	311	309	303	377	140	320	526	559
6 November 2017	311	290	327	409	176	383	524	597
7 November 2017	744	771	762	535	199	739	668	600
8 November 2017	≥1000	≥1000	905	606	275	881	584	906
9 November 2017	802	927	764	525	378	545	874	911
10 November 2017	495	437	498	587	342	504	735	939
11 November 2017	558	540	520	494	394	519	797	950
12 November 2017	663	660	595	547	322	641	862	≥1000
13 November 2017	405	516	461	552	312	348	614	770
14 November 2017	218	450	331	289	261	253	501	515
15 November 2017	267	338	187	322	285	215	390	442
16 November 2017	313	316	272	351	257	183	393	408
17 November 2017	237	249	208	295	192	155	299	372
18 November 2017	234	235	182	264	155	139	307	334
19 November 2017	212	214	196	314	218	120	258	306
20 November 2017	288	263	249	290	172	151	325	371
21 November 2017	235	281	210	297	157	187	392	400
22 November 2017	238	277	212	282	161	206	387	499
23 November 2017	208	280	218	285	204	209	377	≥1000
24 November 2017	182	272	214	295	232	253	384	≥1000
25 November 2017	248	289	248	440	250	226	459	486
26 November 2017	303	322	334	420	132	294	502	647
27 November 2017	285	320	278	340	NA	235	456	538
28 November 2017	263	253	250	383	NA	142	485	470
29 November 2017	262	343	239	638	NA	117	420	680
30 November 2017	255	421	376	NA	NA	203	574	705
Maximum	802		905	638	394	881		950
Minimum	182	214	182	264	132	117	258	306
Average	332	371	344	399	236	306	489	556

ii) PM_{2.5}

Date/Stations	IHBAS	DMS	NSIT	ITO	DTU	Sirifort
1 November 2017	71	614	173	223	265	209
2 November 2017	61	359	145	203	213	179
3 November 2017	97	171	162	218	268	198
4 November 2017	147	200	168	254	239	202
5 November 2017	126	241	211	302	232	209
6 November 2017	178	273	203	253	387	188
7 November 2017	391	557	449	361	741	536
8 November 2017	419	562	498	750	695	764
9 November 2017	323	422	446	597	635	507
10 November 2017	320	387	369	360	459	411
11 November 2017	333	379	309	348	536	359
12 November 2017	304	481	415	451	703	486
13 November 2017	158	383	365	285	517	348
14 November 2017	123	253	228	209	371	299
15 November 2017	117	180	195	175	302	208
16 November 2017	178	181	218	154	234	208
17 November 2017	147	135	169	121	203	166
18 November 2017	125	134	169	124	195	176
19 November 2017	121	124	166	113	168	140
20 November 2017	149	150	183	157	234	187
21 November 2017	132	170	177	169	296	172
22 November 2017	112	167	192	175	286	168
23 November 2017	149	195	196	157	287	176
24 November 2017	161	237	190	164	315	168
25 November 2017	145	223	200	165	302	186
26 November 2017	183	225	231	202	352	215
27 November 2017	130	190	218	173	304	204
28 November 2017	117	190	158	142	253	159
29 November 2017	165	223	187	178	379	208
30 November 2017	183	242	246	176	291	230
Maximum	419	614	498	750	741	764
Minimum	61	124	145	113	168	140
Average	179	275	241	245	355	262

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Date/Stations	Anand Vihar	Mandir Marg	R K Puram	Punjabi Bagh	Burari crossing	CRRI Mathura Road
1 November 2017	210	197	213	220	151	167
2 November 2017	184	158	176	180	106	153
3 November 2017	221	186	192	207	147	184
4 November 2017	262	173	243	236	143	195
5 November 2017	316	205	226	260	139	262
6 November 2017	345	209	207	298	172	209
7 November 2017	611	608	481	695	392	539
8 November 2017	789	745	687	788	537	827
9 November 2017	571	611	547	634	325	491
10 November 2017	497	461	358	482	228	355
11 November 2017	547	390	380	471	304	375
12 November 2017	642	519	463	603	352	465
13 November 2017	518	416	363	473	254	340
14 November 2017	317	293	287	297	187	256
15 November 2017	251	210	221	229	161	185
16 November 2017	250	203	213	221	117	200
17 November 2017	186	151	156	175	104	151
18 November 2017	159	141	153	160	96	154
19 November 2017	153	130	143	153	96	134
20 November 2017	194	172	198	199	121	163
21 November 2017	230	182	204	229	136	171
22 November 2017	253	184	190	216	134	180
23 November 2017	231	182	216	197	124	166
24 November 2017	304	201	207	236	118	172
25 November 2017	266	170	238	223	109	180
26 November 2017	309	268	256	223	160	250
27 November 2017	275	201	265	266	128	190
28 November 2017	278	146	239	238	117	176
29 November 2017	356	186	262	239	194	263
30 November 2017	339	226	275	NA	137	288
Maximum	789	745	687	788	537	827
Minimum	153	130	143	153	96	134
Average	335	271	275	312	183	261

Date/Stations	North Campus	Pusa	Aya Nagar	Lodhi Road	IGI Airport Terminal-3	Bhiwadi ,RIICO Ind. Area III
1 November 2017	177	134	170	200	94	273
2 November 2017	158	111	125	173	NA	230
3 November 2017	176	111	191	178	132	235
4 November 2017	186	117	152	190	155	218
5 November 2017	215	146	184	201	182	242
6 November 2017	237	144	184	176	196	252
7 November 2017	529	442	439	501	457	357
8 November 2017	715	596	620	794	543	445
9 November 2017	430	369	473	546	458	389
10 November 2017	292	263	286	271	299	416
11 November 2017	350	263	335	351	311	312
12 November 2017	407	364	398	461	357	401
13 November 2017	311	267	243	338	277	401
14 November 2017	231	195	131	283	199	180
15 November 2017	196	143	160	206	112	164
16 November 2017	171	146	188	201	166	175
17 November 2017	145	107	142	162	145	154
18 November 2017	134	100	140	141	144	132
19 November 2017	125	91	127	132	130	165
20 November 2017	156	111	173	170	181	133
21 November 2017	166	127	141	178	143	125
22 November 2017	168	125	143	161	142	113
23 November 2017	166	121	125	169	143	415
24 November 2017	186	129	109	149	129	118
25 November 2017	183	118	149	167	151	163
26 November 2017	219	135	182	201	203	178
27 November 2017	193	142	171	172	174	121
28 November 2017	176	100	158	119	145	141
29 November 2017	245	113	157	182	126	242
30 November 2017	197	148	153	268	240	NA
Maximum	715	596	620	794	543	445
Minimum	125	91	109	119	94	113
Average	241	183	212	248	211	237

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Date/Stations	Alwar,Moti Doongri	Faridabad, Sec-16A	Gurgaon, Vikas Sadan	Noida , Sec-62	Noida , Sec-125	Ghaziabad
1 November 2017	47	219	174	90	143	209
2 November 2017	42	234	157	76	210	206
3 November 2017	41	171	172	87	246	232
4 November 2017	52	169	174	119	264	271
5 November 2017	44	163	166	196	300	350
6 November 2017	47	151	176	237	268	374
7 November 2017	70	429	242	470	596	734
8 November 2017	146	554	459	563	498	784
9 November 2017	198	407	456	343	574	630
10 November 2017	164	280	357	322	445	623
11 November 2017	202	265	312	331	504	639
12 November 2017	166	359	366	411	607	752
13 November 2017	152	252	348	234	412	544
14 November 2017	121	205	212	204	347	343
15 November 2017	149	155	169	146	242	263
16 November 2017	141	171	193	141	241	267
17 November 2017	98	211	151	108	180	220
18 November 2017	69	213	174	103	206	209
19 November 2017	116	276	151	84	152	168
20 November 2017	39	137	172	103	209	227
21 November 2017	88	130	142	125	224	249
22 November 2017	68	127	137	128	220	301
23 November 2017	86	130	132	124	210	255
24 November 2017	95	129	178	143	210	276
25 November 2017	104	220	143	131	258	269
26 November 2017	89	165	182	201	290	374
27 November 2017	NA	150	201	133	252	311
28 November 2017	NA	251	206	92	243	258
29 November 2017	NA	630	161	81	219	374
30 November 2017	NA	193	160	176	328	366
Maximum	202	630	459	563	607	784
Minimum	39	127	132	76	143	168
Average	101	238	214	190	303	369

2.SO₂ (in μg/m³)

Date/Stations	IHBAS	DMS	NSIT	Anand Vihar	Mandir Marg	R K Puram	Punjabi Bagh
1 November 2017	7	12	10	28	14	17	30
2 November 2017	6	9	7	20	14	31	29
3 November 2017	10	9	15	23	16	29	NA
4 November 2017	10	13	13	35	14	25	14
5 November 2017	17	16	13	28	17	34	7
6 November 2017	17	12	11	29	16	29	6
7 November 2017	11	15	11	16	21	24	9
8 November 2017	22	21	9	23	20	37	NA
9 November 2017	45	14	10	16	14	27	12
10 November 2017	22	24	13	20	17	25	17
11 November 2017	19	12	12	13	20	26	18
12 November 2017	11	21	11	17	18	11	9
13 November 2017	11	20	11	15	16	31	9
14 November 2017	11	11	11	16	13	18	18
15 November 2017	16	20	11	21	15	19	26
16 November 2017	8	20	15	25	15	38	30
17 November 2017	7	7	14	20	13	37	21
18 November 2017	11	6	11	17	19	33	16
19 November 2017	9	7	10	23	15	32	16
20 November 2017	11	8	11	17	13	34	13
21 November 2017	14	14	11	18	17	25	15
22 November 2017	23	15	15	17	16	38	15
23 November 2017	14	17	14	18	16	44	12
24 November 2017	12	16	13	14	6	46	27
25 November 2017	11	10	16	17	7	50	20
26 November 2017	16	27	16	18	18	44	28
27 November 2017	12	19	12	18	12	44	27
28 November 2017	11	18	13	17	15	48	31
29 November 2017	15	16	13	22	13	33	24
30 November 2017	11	19	15	20	14	24	None
Maximum	45	27	16	35	21	50	31
Minimum	6	6	7	13	6	11	6
Average	14	15	12	20	15	32	18

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Date/Stations	Bhiwadi ,RIICO Ind. Area III	Alwar, Moti Doongri	Faridabad, Sec-16A	Gurgaon, Vikas Sadan	Noida, Sec-125	Ghaziabad
1 November 2017	81	24	10	5	21	36
2 November 2017	69	13	12	7	39	88
3 November 2017	82	17	18	6	43	49
4 November 2017	41	11	34	6	33	52
5 November 2017	34	9	29	7	41	106
6 November 2017	75	16	26	8	32	56
7 November 2017	69	16	39	8	30	70
8 November 2017	80	18	57	8	33	89
9 November 2017	74	17	66	9	41	140
10 November 2017	49	12	50	10	42	125
11 November 2017	56	15	47	8	42	56
12 November 2017	22	13	55	6	37	45
13 November 2017	21	12	47	NA	33	35
14 November 2017	13	10	12	NA	33	33
15 November 2017	40	9	38	NA	38	52
16 November 2017	135	12	58	NA	45	87
17 November 2017	113	17	57	NA	65	108
18 November 2017	79	17	35	NA	40	84
19 November 2017	106	12	26	NA	38	111
20 November 2017	97	8	41	NA	35	89
21 November 2017	66	8	25	NA	33	54
22 November 2017	64	10	26	NA	35	42
23 November 2017	74	12	28	NA	35	48
24 November 2017	58	10	34	NA	37	42
25 November 2017	71	13	35	3	42	39
26 November 2017	80	7	31	11	40	60
27 November 2017	63	NA	26	7	43	51
28 November 2017	53	NA	40	11	35	36
29 November 2017	38	NA	40	9	34	55
30 November 2017	NA	NA	56	8	42	89
Maximum	135	24	66	11	65	140
Minimum	13	7	10	3	21	33
Average	66	13	37	8	38	68

3.NO₂(in μ g/m³)

Date/Stations	IHBAS	DMS	NSIT	ITO	DTU	Sirifort	Anand Vihar	Mandir Marg
1 November 2017	62	63	49	25	19	18	69	53
2 November 2017	49	61	46	24	20	27	63	48
3 November 2017	48	62	46	26	19	66	67	50
4 November 2017	54	59	43	24	19	55	82	39
5 November 2017	71	72	44	23	21	61	110	56
6 November 2017	66	70	45	NA	20	60	107	53
7 November 2017	74	71	51	NA	18	79	118	102
8 November 2017	82	93	56	NA	16	100	133	76
9 November 2017	76	88	63	NA	17	97	161	75
10 November 2017	67	91	59	NA	16	89	150	84
11 November 2017	77	80	60	NA	16	98	144	83
12 November 2017	67	82	56	NA	10	92	102	77
13 November 2017	68	80	66	NA	6	78	104	79
14 November 2017	71	63	57	57	4	93	83	81
15 November 2017	75	67	59	50	4	98	85	75
16 November 2017	52	66	55	53	5	106	103	64
17 November 2017	52	48	45	34	37	102	88	62
18 November 2017	54	44	46	42	47	77	115	65
19 November 2017	52	47	46	46	47	50	97	55
20 November 2017	60	57	51	56	47	47	114	59
21 November 2017	75	62	52	46	48	37	132	65
22 November 2017	79	66	55	33	49	33	134	68
23 November 2017	83	71	56	37	49	48	146	73
24 November 2017	102	82	56	43	50	56	162	84
25 November 2017	92	80	62	44	49	59	173	80
26 November 2017	97	83	66	56	51	30	193	125
27 November 2017	87	75	62	42	49	53	181	85
28 November 2017	92	72	85	43	52	50	177	108
29 November 2017	118	94	104	65	64	28	148	117
30 November 2017	86	58	54	45	57	27	137	91
Maximum	118	94	104	65	64	106	193	
Minimum	48	44		23	4	18	63	
Average	73	70	57	42	31	64	123	74

Date/Stations	R K Puram	Punjabi Bagh	Burari crossing	CRRI Mathura Road	North Campus	Pusa	Aya Nagar	Lodhi Road
1 November 2017	105	128	36	32	46	20	18	30
2 November 2017	115	129	32	33	41	17	18	27
3 November 2017	108	151	33	32	43	26	18	16
4 November 2017	81	179	35	32	43	28	19	14
5 November 2017	121	247	32	35	43	24	17	16
6 November 2017	105	212	35	30	42	18	18	16
7 November 2017	121	154	38	31	48	16	17	17
8 November 2017	165	236	40	33	51	16	17	24
9 November 2017	148	212	40	35	48	16	16	21
10 November 2017	171	338	36	34	43	16	18	22
11 November 2017	197	299	39	33	47	16	17	19
12 November 2017	214	258	39	33	47	16	17	17
13 November 2017	141	279	39	34	43	51	18	16
14 November 2017	113	136	35	33	41	44	17	14
15 November 2017	100	180	34	35	41	37	17	12
16 November 2017	106	131	32	34	32	16	18	11
17 November 2017	89	94	32	32	24	3	18	12
18 November 2017	101	92	33	31	35	1	17	12
19 November 2017	81	80	32	31	30	0	16	10
20 November 2017	98	111	38	31	27	2	17	10
21 November 2017	88	121	37	31	26	6	17	11
22 November 2017	94	115	37	33	25	3	16	11
23 November 2017	101	85	37	31	25	1	16	17
24 November 2017	109	485	40	31	24	1	17	21
25 November 2017	111	386	36	31	25	0	17	21
26 November 2017	118	435	33	32	26	17	16	25
27 November 2017	110	269	64	31	26	3	17	22
28 November 2017	109	588	23	31	26	14	18	20
29 November 2017	141	501	22	33	26	19	18	23
30 November 2017	126	NA	24	33	27	22	18	19
Maximum	214	588	64	35	51	51	19	30
Minimum	81	80	22	30	24	0	16	
Average	120	229	35	32	36	16	17	18

Date/Stations	IGI Airport Terminal-3	Bhiwadi ,RIICO Ind. Area III	Alwar, Moti Doongri	Faridabad, Sec-16A	Gurgaon, Vikas Sadan	Noida , Sec-62	Noida , Sec-125	Ghaziabad
1 November 2017	20	72	59	19	23	10	69	80
2 November 2017	21	104	43	20	24	10	80	76
3 November 2017	19	86	59	13	24	10	89	82
4 November 2017	21	72	49	20	26	10	71	78
5 November 2017	22	100	44	19	25	10	113	88
6 November 2017	21	133	55	26	23	9	118	95
7 November 2017	23	119	51	50	23	8	128	122
8 November 2017	23	127	54	67	23	7	160	115
9 November 2017	24	119	61	66	23	8	126	71
10 November 2017	23	111	61	59	23	9	122	36
11 November 2017	23	78	69	57	23	8	136	126
12 November 2017	24	60	64	78	23	8	127	109
13 November 2017	23	65	59	62	23	10	87	99
14 November 2017	23	44	55	79	22	10	50	70
15 November 2017	23	36	57	54	22	10	61	85
16 November 2017	22	57	46	48	22	11	87	73
17 November 2017	22	51	31	46	18	11	83	68
18 November 2017	22	51	28	58	26	11	89	76
19 November 2017	23	60	35	55	25	12	70	73
20 November 2017	23	67	38	60	23	11	83	76
21 November 2017	22	77	43	61	23	11	92	92
22 November 2017	23	64	48	74	24	11	109	93
23 November 2017	23	74	55	73	24	10	112	94
24 November 2017	23	80	65	73	24	10	132	107
25 November 2017	23	89	65	91	24	10	136	83
26 November 2017	23	83	56	97	23	10	146	95
27 November 2017	23	102	NA	91	22	10	129	98
28 November 2017	22	79	NA	71	22	12	124	73
29 November 2017	22	116	NA	68	22	12	115	58
30 November 2017	25	NA	NA	94	15	11	150	76
Maximum	25	133	69	97	26	12	160	126
Minimum	19	36	28	13	15	7	50	
Average	22	82	52	58	23	10	107	86

4.Benzene(in μg/m³)

Date/Stations	DMS	NSIT	Anand Vihar	Mandir Marg	R K Puram	Punjabi Bagh	North Campus
1 November 2017	2.1	4.2	3.8	2.8	10.1	1.5	0.8
2 November 2017	5.7	5.1	3.8	2.9	9.6	1.4	0.8
3 November 2017	5.2	6.7	5.0	3.9	12.5	1.8	0.8
4 November 2017	6.7	4.6	6.6	2.6	12.3	2.3	0.8
5 November 2017	18.4	13.3	10.8	4.3	13.7	3.3	0.8
6 November 2017	15.3	5.8	10.8	4.1	10.7	3.0	0.8
7 November 2017	15.2	7.9	9.3	5.9	14.4	2.8	0.8
8 November 2017	28.0	12.6	15.9	7.1	16.6	6.3	0.8
9 November 2017	21.2	16.6	9.8	6.1	15.8	3.4	0.8
10 November 2017	26.3	12.9	11.3	6.2	15.1	4.1	0.8
11 November 2017	32.4	14.1	12.6	7.5	14.9	6.1	0.8
12 November 2017	25.7	13.0	13.6	6.7	17.1	5.1	0.8
13 November 2017	16.1	10.0	10.0	4.8	14.5	3.1	0.9
14 November 2017	16.3	3.3	5.5	3.2	11.2	1.5	0.8
15 November 2017	14.6	3.5	5.0	3.1	10.1	1.7	0.8
16 November 2017	7.2	5.4	5.4	3.6	10.9	1.4	1.3
17 November 2017	4.2	2.7	4.8	2.7	9.3	1.3	1.7
18 November 2017	4.0	2.5	6.2	2.6	6.7	1.6	0.9
19 November 2017	3.1	2.1	3.5	1.8	5.9	0.9	1.0
20 November 2017	3.1	2.6	4.0	2.1	6.7	1.1	1.0
21 November 2017	13.4	3.2	7.6	3.2	6.1	7.3	1.1
22 November 2017	17.3	3.4	8.1	3.5	6.3	10.3	1.1
23 November 2017	13.2	3.7	7.7	3.8	6.3	5.8	1.1
24 November 2017	12.5	3.0	11.6	3.9	6.4	6.9	1.1
25 November 2017	17.6	4.5	9.9	3.6	7.8	6.8	1.1
26 November 2017	14.8	5.4	11.0	NA	9.8	2.7	1.1
27 November 2017	11.9	4.3	9.6	3.2	8.7	2.0	1.1
28 November 2017	14.6	5.0	11.7	NA	8.7	7.3	1.1
29 November 2017	21.4	14.4	12.0	5.4	12.0	3.9	1.1
30 November 2017	21.7	17.7	10.7	6.3	13.2	NA	1.1
Maximum	32.4	17.7	15.9	7.5	17.1	10.3	1.7
Minimum	2.1	2.1	3.5	1.8	5.9	0.9	0.8
Average	14.3	7.1	8.6	4.2	10.8	3.7	1.0

Date/Stations	Bhiwadi ,RIICO Ind. Area III	Alwar,Moti Doongri	Faridabad, Sec-16A	Gurgaon, Vikas Sadan	Noida , Sec-125	Ghaziabad
1 November 2017	1.4	3.5	0.5	1.1	0.7	0.4
2 November 2017	1.8	2.1	0.5	1.1	1.3	0.4
3 November 2017	2.0	3.6	0.8	1.1	1.1	NA
4 November 2017	1.5	2.8	1.1	1.1	1.5	0.6
5 November 2017	2.1	2.8	1.9	1.1	2.9	1.0
6 November 2017	2.0	3.1	1.4	1.1	2.1	1.1
7 November 2017	3.3	3.0	3.5	1.1	2.3	0.9
8 November 2017	4.0	4.6	5.0	1.1	3.3	1.3
9 November 2017	3.7	4.1	4.5	1.5	2.9	1.1
10 November 2017	5.3	4.5	3.3	0.6	2.3	1.3
11 November 2017	3.8	3.9	3.1	0.6	2.9	1.4
12 November 2017	3.9	3.6	3.8	0.7	2.8	1.2
13 November 2017	3.8	4.7	2.7	0.7	2.2	0.8
14 November 2017	1.1	3.8	1.1	0.5	1.0	0.4
15 November 2017	1.0	3.8	0.9	0.5	1.1	0.4
16 November 2017	2.0	3.0	1.2	0.5	1.2	0.5
17 November 2017	1.3	1.6	1.1	0.6	1.2	0.4
18 November 2017	1.1	1.5	0.9	0.7	1.2	0.4
19 November 2017	1.0	1.3	0.6	0.5	1.0	0.3
20 November 2017	1.0	1.4	0.7	1.3	1.2	0.3
21 November 2017	1.7	2.0	0.7	1.4	1.8	0.5
22 November 2017	1.0	1.7	0.6	1.4	1.6	0.5
23 November 2017	1.2	2.3	0.7	1.2	1.5	0.5
24 November 2017	1.5	2.8	0.7	1.2	1.5	0.7
25 November 2017	2.2	2.8	0.8	0.9	1.9	0.7
26 November 2017	2.5	1.8	1.2	1.0	2.6	1.0
27 November 2017	1.6	NA	0.9	1.1	1.7	0.6
28 November 2017	1.5	NA	1.4	1.0	1.7	0.8
29 November 2017	2.2	NA	1.6	1.8	1.4	0.9
30 November 2017	NA	NA	1.2	1.2	2.3	0.7
Maximum	5.3	4.7	5.0	1.8	3.3	1.4
Minimum	1.0	1.3	0.5	0.5	0.7	0.3
Average	2.2	2.9	1.6	1.0	1.8	0.7

5.CO(in mg/m³)

Date/Stations	IHBAS	DMS	NSIT	Mandir Marg	R K Puram	Punjabi Bagh	Burari crossing	CRRI Mathura Road	North Campus	Pusa
1 November 2017	0.5	1.1	1.2	2.4	2.8	2.0	1.4	1.1	1.2	1.9
2 November 2017	0.8	1.1	0.7	3.3	3.1	2.3	1.5	1.0	1.3	1.6
3 November 2017	0.9	1.1	0.9	3.5	4.3	2.6	1.4	1.2	1.2	2.0
4 November 2017	1.2	1.2	1.5	2.6	3.8	3.3	1.4	1.1	1.2	1.9
5 November 2017	1.6	1.7	1.9	4.4	4.9	3.7	1.5	0.7	1.2	2.4
6 November 2017	1.5	1.7	0.9	3.2	2.4	3.3	1.4	1.3	1.2	2.3
7 November 2017	1.8	1.9	1.5	5.5	3.7	4.6	1.3	1.1	1.1	3.5
8 November 2017	2.8	2.8	1.6	4.7	4.7	5.7	1.3	1.0	1.0	5.2
9 November 2017	1.8	2.2	1.2	4.0	4.0	4.3	1.3	0.8	1.1	5.0
10 November 2017	2.5	2.4	1.3	4.5	3.6	3.8	1.4	1.0	1.2	4.3
11 November 2017	1.6	1.9	1.1	3.6	3.7	4.3	1.3	1.1	1.1	4.7
12 November 2017	2.0	1.8	1.1	3.9	4.8	5.6	1.3	1.0	1.1	5.1
13 November 2017	1.9	1.4	0.8	3.6	4.4	5.1	1.3	1.0	1.5	4.1
14 November 2017	1.6	0.9	0.5	2.4	3.9	2.5	1.4	1.0	1.2	2.1
15 November 2017	1.3	0.9	0.4	2.5	3.4	2.9	1.4	1.1	1.2	1.5
16 November 2017	0.9	0.6	0.9	1.8	2.9	2.0	1.5	1.0	2.7	1.8
17 November 2017	0.7	0.5	1.0	1.3	2.0	1.6	1.4	1.1	3.8	1.4
18 November 2017	0.7	0.6	1.1	1.3	1.6	1.5	1.4	1.2	1.4	1.2
19 November 2017	0.7	0.5	1.1	1.3	1.7	1.4	1.4	1.1	1.7	1.0
20 November 2017	0.7	0.5	1.2	1.5	2.2	1.5	1.3	1.1	1.9	1.0
21 November 2017	0.9	1.2	1.4	2.1	2.0	2.1	1.3	1.2	1.9	1.2
22 November 2017	1.2	1.5	1.2	2.1	2.0	1.7	1.3	1.1	2.0	1.4
23 November 2017	1.4	1.6	1.2	1.6	2.2	1.9	1.3	1.2	2.1	1.5
24 November 2017	1.4	1.7	1.2	None	2.2	2.1	1.3	1.2	2.2	1.8
25 November 2017	2.0	1.8	1.3	2.8	3.0	2.6	1.4	1.1	2.0	1.9
26 November 2017	1.8	1.9	1.4	3.1	4.3	2.9	1.5	1.1	2.0	2.3
27 November 2017	1.3	1.8	1.2	1.4	3.0	1.9	1.2	1.2	1.9	2.5
28 November 2017	1.8	2.1	1.2	1.2	2.4	2.6	1.9	1.2	1.9	2.4
29 November 2017	2.4	2.3	1.5	2.8	3.5	3.4	1.9	0.9	1.9	2.9
30 November 2017	2.3	2.3	1.9	2.4	5.1	NA	1.8	0.9	1.9	2.9
Maximum	2.8	2.8	1.9	5.5	5.1	5.7	1.9	1.3	3.8	5.2
Minimum	0.5	0.5	0.4	1.2	1.6	1.4	1.2	0.7	1.0	1.0
Average	1.5	1.5	1.2	2.8	3.3	2.9	1.4	1.1	1.6	2.5

Date/Stations	Aya Nagar	Lodhi Road	IGI Airport Terminal-3	Bhiwadi ,RIICO Ind. Area III	Alwar, Moti Doongri	Faridabad, Sec-16A	Gurgaon, Vikas Sadan	Noida , Sec-62	Noida , Sec-125	Ghaziabad
1 November 2017	1.2	2.3	2.3	1.3	1.6	1.8	1.8	0.8	0.8	1.9
2 November 2017	1.1	1.5	2.2	1.3	1.1	2.1	1.9	0.7	2.1	1.9
3 November 2017	1.1	NA	2.2	1.2	1.7	2.2	0.9	0.8	2.1	2.2
4 November 2017	1.2	NA	1.9	1.2	1.3	2.7	2.0	0.8	2.1	3.2
5 November 2017	1.1	6.0	1.7	1.0	1.3	3.1	1.5	0.9	4.2	4.7
6 November 2017	1.2	NA	1.8	1.1	1.5	2.5	1.4	1.0	3.3	4.7
7 November 2017	1.1	1.9	1.6	1.4	1.1	3.2	2.2	0.9	4.2	4.4
8 November 2017	1.1	3.5	1.5	1.9	1.4	2.6	1.3	1.0	5.6	5.9
9 November 2017	1.0	4.0	1.5	1.4	1.6	2.4	1.5	1.0	4.9	4.6
10 November 2017	1.2	5.0	1.6	2.1	1.5	4.1	1.2	1.0	4.1	4.0
11 November 2017	1.1	6.7	1.6	1.8	1.6	4.5	1.3	1.1	4.5	5.7
12 November 2017	1.0	11.7	1.5	1.9	1.5	3.9	1.9	1.0	2.8	5.8
13 November 2017	1.1	2.4	1.6	2.0	1.9	4.3	1.8	0.8	1.2	3.8
14 November 2017	1.0	1.5	1.6	1.2	1.3	6.9	2.0	0.8	0.1	2.0
15 November 2017	1.1	1.2	1.7	1.3	1.5	3.7	0.8	0.8	0.7	2.0
16 November 2017	1.1	1.2	1.7	1.4	1.1	1.4	1.5	0.8	0.8	1.7
17 November 2017	1.1	0.8	1.7	1.1	0.7	1.7	1.6	0.8	1.4	1.3
18 November 2017	1.1	0.7	1.7	1.2	1.1	1.7	1.7	0.7	1.5	1.4
19 November 2017	1.0	0.7	1.5	0.9	0.8	1.1	2.0	0.7	1.0	1.1
20 November 2017	1.1	0.8	1.6	0.9	0.7	1.1	1.9	0.7	1.4	1.3
21 November 2017	1.1	0.9	1.6	1.1	1.0	2.7	1.6	0.7	2.0	1.8
22 November 2017	1.0	0.9	1.6	0.9	0.8	2.4	1.9	0.8	1.8	1.9
23 November 2017	1.0	1.1	1.6	1.0	1.0	1.7	4.9	0.8	1.9	1.9
24 November 2017	1.0	1.2	1.6	1.1	1.4	1.3	2.6	0.9	2.0	2.5
25 November 2017	1.0	7.4	1.6	1.4	1.2	1.8	3.6	0.9	2.3	2.8
26 November 2017	1.0	1.9	1.5	1.1	0.7	2.2	2.1	0.9	3.6	3.9
27 November 2017	1.1	14.1	1.5	0.7	NA	1.9	2.0	0.9	2.5	2.5
28 November 2017	1.1	2.1	1.7	1.3	NA	3.4	1.8	0.7	2.9	3.4
29 November 2017	1.1	8.6	1.6	0.4	NA	3.5	1.9	0.7	2.0	3.8
30 November 2017	1.1	4.4	1.3	NA	NA	2.7	2.3	0.9	4.7	3.2
Maximum	1.2	14.1	2.3	2.1	1.9	6.9	4.9	1.1	5.6	5.9
Minimum	1.0	0.7	1.3	0.4	0.7	1.1	0.8	0.7	0.1	1.1
Average	1.1	3.5	1.7	1.3	1.2	2.7	1.9	0.8	2.5	3.0

6. Ozone(in μ g/m³)

Date/Stations	DMS	NSIT	Anand Vihar	Mandir Marg	R K Puram	Punjabi Bagh	Burari crossing	CRRI Mathura Road	North Campus	Aya Nagar
1 November 2017	33	36	20	3	27	33	55	38	143	39
2 November 2017	33	39	28	13	27	34	41	45	64	41
3 November 2017	37	39	89	22	35	54	44	31	76	40
4 November 2017	66	37	93	49	39	95	56	30	89	34
5 November 2017	37	31	108	74	49	58	40	89	72	40
6 November 2017	21	22	78	19	28	37	50	24	70	35
7 November 2017	20	18	56	36	31	40	54	28	101	41
8 November 2017	18	36	66	17	29	31	62	36	117	44
9 November 2017	40	21	79	21	41	43	63	83	94	51
10 November 2017	40	28	99	49	30	43	50	37	75	39
11 November 2017	23	24	99	23	27	45	58	34	91	45
12 November 2017	3	30	82	28	35	42	60	38	93	51
13 November 2017	14	30	60	21	30	37	59	37	78	41
14 November 2017	18	37	15	20	24	50	48	52	65	44
15 November 2017	22	32	16	24	21	46	47	35	66	52
16 November 2017	16	27	36	26	23	44	41	38	45	39
17 November 2017	10	23	18	20	20	42	42	31	25	36
18 November 2017	11	21	20	27	34	41	44	26	46	38
19 November 2017	15	31	19	29	43	27	42	28	33	48
20 November 2017	19	25	17	21	35	25	53	28	28	45
21 November 2017	30	11	38	17	34	24	54	27	27	38
22 November 2017	26	25	31	17	35	22	53	27	25	46
23 November 2017	26	27	29	17	34	27	52	27	24	49
24 November 2017	28	25	32	15	36	40	62	26	23	48
25 November 2017	28	27	32	22	38	36	51	28	25	48
26 November 2017	26	26	41	38	55	48	49	46	26	50
27 November 2017	28	26	24	24	36	46	NA	27	27	46
28 November 2017	22	20	30	30	31	55	23	27	26	39
29 November 2017	20	27	119	23	18	52	22	39	27	39
30 November 2017	21	48	67	30	25	NA	32	39	27	36
Maximum	66	48	119	74	55	95	63	89	143	52
Minimum	3	11	15	3	18	22	22	24	23	34
Average	25	28	51	26	32	42	49	37	58	43

Date/Stations	Lodhi Road	Pusa	IGI Airport Terminal-3	Bhiwadi ,RIICO Ind. Area III	Alwar,Moti Doongri	Faridabad, Sec-16A	Gurgaon,Vikas Sadan	Noida , Sec-62	Noida , Sec-125	Ghaziabad
1 November 2017	19	21	24	71	37	23	34	22	65	34
2 November 2017	30	20	32	56	43	21	45	20	44	29
3 November 2017	56	31	20	56	40	21	31	19	43	29
4 November 2017	31	43	24	45	40	32	33	21	47	29
5 November 2017	35	29	30	37	40	22	35	32	69	63
6 November 2017	20	17	26	35	39	28	28	33	38	75
7 November 2017	23	18	31	44	39	43	30	35	56	47
8 November 2017	23	14	34	47	40	41	22	23	57	76
9 November 2017	30	20	34	46	41	44	23	40	57	135
10 November 2017	35	NA	34	34	40	40	26	39	56	96
11 November 2017	20	NA	32	44	39	51	29	27	44	97
12 November 2017	27	NA	37	48	38	51	38	22	60	70
13 November 2017	24	NA	34	45	41	37	25	16	41	51
14 November 2017	25	18	34	43	31	53	43	22	25	51
15 November 2017	21	26	31	52	34	NA	37	20	17	41
16 November 2017	37	32	30	33	51	39	27	29	3	41
17 November 2017	18	38	27	24	57	25	21	28	59	79
18 November 2017	18	36	28	30	63	25	29	23	52	80
19 November 2017	26	60	33	36	71	41	44	20	77	116
20 November 2017	24	73	32	32	56	47	40	20	71	132
21 November 2017	24	73	30	29	49	37	37	19	63	69
22 November 2017	24	72	31	31	47	41	32	18	58	45
23 November 2017	24	72	32	31	43	40	29	19	62	78
24 November 2017	25	66	32	30	38	40	26	18	58	48
25 November 2017	26	69	33	27	40	40	25	18	65	50
26 November 2017	26	43	34	24	11	38	25	69	66	147
27 November 2017	26	50	34	27	NA	41	27	18	67	91
28 November 2017	22	40	28	21	NA	33	18	12	59	57
29 November 2017	26	41	30	10	NA	30	16	12	60	92
30 November 2017	106	68	39	NA	NA	34	23	32	133	97
Maximum	106	73	39	71	71	53	45	69	133	147
Minimum	18	14	20	10	11	21	16	12	3	29
Average	29	42	31	37	43	37	30	25	56	72

7.NH₃(in μ g/m³)

Date/Stations	IHBAS	ITO	DTU	Sirifort	Anand Vihar	Mandir Marg
1 November 2017	50	35	34	57	113	17
2 November 2017	47	32	34	56	89	19
3 November 2017	60	35	35	90	79	20
4 November 2017	57	41	34	85	84	20
5 November 2017	65	38	36	131	101	17
6 November 2017	85	68	35	122	107	17
7 November 2017	65	118	34	109	137	110
8 November 2017	69	128	35	103	142	36
9 November 2017	66	141	35	115	99	28
10 November 2017	67	207	35	142	112	26
11 November 2017	88	186	36	145	108	26
12 November 2017	75	NA	37	131	101	30
13 November 2017	71	127	38	117	110	27
14 November 2017	57	48	39	59	88	24
15 November 2017	52	48	39	64	71	20
16 November 2017	37	45	37	71	84	23
17 November 2017	37	28	29	66	76	22
18 November 2017	36	26	29	47	67	22
19 November 2017	32	27	28	35	57	19
20 November 2017	33	31	31	45	51	20
21 November 2017	35	36	39	49	60	23
22 November 2017	36	28	36	53	67	21
23 November 2017	38	32	36	52	68	21
24 November 2017	46	34	37	59	81	21
25 November 2017	46	39	37	69	90	20
26 November 2017	59	61	40	111	95	33
27 November 2017	45	38	36	71	112	23
28 November 2017	57	57	40	102	116	45
29 November 2017	96	80	62	180	126	19
30 November 2017	67	69	48	183	111	23
Maximum	96	207	62	183	142	110
Minimum	32	26	28	35	51	17
Average	56	65	37	91	93	26

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Date/Stations	R K Puram	Punjabi Bagh	Bhiwadi ,RIICO Ind. Area III	Alwar, Moti Doongri	Noida , Sec-125	Ghaziabad
1 November 2017	44	62	58	10	51	86
2 November 2017	45	65	50	14	70	82
3 November 2017	44	69	46	15	75	81
4 November 2017	45	71	42	20	68	91
5 November 2017	41	68	41	18	76	112
6 November 2017	40	70	42	12	87	122
7 November 2017	51	102	47	37	93	111
8 November 2017	58	102	64	44	93	106
9 November 2017	48	71	53	46	71	70
10 November 2017	49	66	47	46	88	25
11 November 2017	54	69	71	53	94	78
12 November 2017	66	72	85	46	95	72
13 November 2017	59	70	72	58	90	58
14 November 2017	62	60	66	47	57	46
15 November 2017	49	49	62	47	50	42
16 November 2017	49	51	60	37	58	42
17 November 2017	43	48	61	23	73	38
18 November 2017	45	69	83	38	102	41
19 November 2017	33	48	65	22	79	34
20 November 2017	34	47	51	21	92	32
21 November 2017	30	53	39	26	102	33
22 November 2017	29	53	42	26	99	34
23 November 2017	30	54	45	34	97	31
24 November 2017	30	44	58	49	102	35
25 November 2017	35	49	46	43	113	26
26 November 2017	37	50	58	32	145	35
27 November 2017	40	59	38	NA	104	37
28 November 2017	35	39	40	NA	112	28
29 November 2017	42	42	11	NA	104	27
30 November 2017	45	NA	NA	NA	146	35
Maximum	66	102	85	58	146	122
Minimum	29	39	11	10	50	25
Average	44	61	53	33	90	56

Daily meteorological data Vs. PM2.5 Profile - November 2017

PM_{2.5} Concentration in Delhi at different Air Quality Monitoring Stations

with meteorological data (3:00 PM to 3:00PM)

	With file teorological data (5.00 file)											
					PM _{2.5} Concen	tration (µg/m³)						
S.No.	Station	(01-02) November 17	(02-03) November 17	(03-04) November 17	(04-05) November 17	(05-06) November 17	(06-07) November 17	(07-08) November 17	(08-09) November 17			
1	IHBAS	81	58	160	104	175	353	336	410			
2	DMS	778	176	195	226	233	493	547	451			
3	NSIT	127	164	175	203	189	397	407	503			
4	ITO	198	*	253	296	256	*	614	746			
5	DTU	217	258	242	238	310	653	568	753			
6	Sirifort	166	197	203	217	178	453	578	724			
7	Anand Vihar	177	213	241	283	293	480	*	563			
8	Mandir Marg)	145	171	184	196	162	527	539	574			
9	R K puram	163	195	192	233	178	418	498	655			
10	Punjabi Bagh	187	199	236	259	245	534	700	*			
11	Burari Crossing	117	140	137	147	165	323	468	414			
12	CRRI Mathura Road	135	190	178	250	*	485	623	685			
13	North Campus	160	174	191	*	205	471	601	563			
14	Pusa	112	110	120	*	117	397	488	497			
15	Aya Nagar	136	180	180	*	145	391	516	598			
16	Lodhi Road	160	189	191	*	174	441	573	696			
17	Pitampura	*	*	*	*	*	*	*	*			
18	IGI Airport Terminal-3	*	*	*	*	*	*	434	593			
Average	e PM2.5 Conc. (μg/m³)	191	174 🗸	192 🔨	221 \uparrow	202 🗸	454 🔨	531 🔨	589 ↑			
Meteo	rological parameters	(01-02) November 17	(02-03) November 17	(03-04) November 17	(04-05) November 17	(05-06) November 17	(06-07) November 17	(07-08) November 17	(08-09) November 17			
Mi	xing Height (m)	585	479 🗸	515	490 ↓	481 🗸	449 🗸	335 🗸	418			
Wi	nd Speed (m/s)	1.6	1.3	*	*	1.4	1.4	1.3	1.3			
Te	mperature (^O C)	24.6	24.5 ↓	*	*	24.6	24.7	22.3	22.4			
	tive Humidity(%)	67.0	67.7	*	*	59.3	63.8	75.5	69.4			
	/5		•			*	•					

*Inadequate data/Data not available

Daily mean values are compared with the previous value

PM_{2.5} Concentration in Delhi at different Air Quality Monitoring Stations

with meteorological data (3:00 PM to 3:00PM)

				PM ₂	₅ Concentration (με	g/m³)		
S.No.	Station	(09-10) November 17	(10-11) November 17	(11-12) November 17	(12-13) November 17	(13-14) November 17	(14-15) November 17	(15-16) November 17
1	IHBAS	350	314	318	195	132	114	188
2	DMS	448	318	495	408	295	209	194
3	NSIT	436	284	409	387	255	207	223
4	ITO	472	262	473	381	226	189	169
5	DTU	565	447	732	436	418	335	267
6	Sirifort	418	308	532	389	285	242	217
7	Anand Vihar	592	429	683	565	368	265	276
8	Mandir Marg)	561	312	545	448	320	237	219
9	R K puram	394	301	494	395	282	249	232
10	Punjabi Bagh	563	350	599	458	338	250	243
11	Burari Crossing	304	242	375	257	*	170	140
12	CRRI Mathura Road	438	275	510	398	242	216	203
13	North Campus	379	262	451	323	*	208	192
14	Pusa	334	203	383	288	211	159	158
15	Aya Nagar	385	242	419	379	*	195	198
16	Lodhi Road	*	258	513	377	277	249	207
17	Pitampura	*	*	*	*	*	*	*
18	IGI Airport Terminal-3	346	272	372	318	*	168	186
Averag	e PM2.5 Conc. (μg/m³)	436	299 🗸	488 1	377 ↓	281 🗸	215 🗸	207 🗸
Motor	prological parameters	(09-10) November 17	(10-11) November 17	(11-12) November 17	(12-13) November 17	(13-14) November 17	(14-15) November 17	(15-16) November 17

Meteorological parameters	(09-10) November 17	(10-11) November 17	(11-12) November 17	(12-13) November 17	(13-14) November 17	(14-15) November 17	(15-16) November 17
Mixing Height (m)	461	415 🗸	340 🗸	375 🔨	488 ^	509 \uparrow	459 🗸
Wind Speed (m/s)	1.4	1.0	1.1 1	1.4 🔨	2.3 ^	1.9 🗸	1.9
Temperature (^o C)	22.6	23.3	22.3 🗸	21.9 🗸	22.2	21.8 🗸	21.1 🗸
Relative Humidity(%)	64.6	57.9 ↓	63.7 1	63.2 🗸	61.9 🗸	55.1 🗸	60.8 1

^{*}Inadequate data/Data not available

Daily mean values are compared with the previous value

PM_{2.5} Concentration in Delhi at different Air Quality Monitoring Stations

with meteorological data (3:00 PM to 3:00PM)

			PM _{2.5} Concentration (μg/m³)										
S.No.	Station	(16-17) November 17	(17-18) November 17	(18-19) November 17	(19-20) November 17	(20-21) November 17	(21-22) November 17	(22-23) November 17					
1	IHBAS	153	120	121	151	134	120	142					
2	DMS	138	136	121	151	158	165	192					
3	NSIT	174	169	160	193	172	177	199					
4	ITO	129	121	106	162	156	185	155					
5	DTU	197	199	166	237	253	314	264					
6	Sirifort	172	169	146	190	175	171	170					
7	Anand Vihar	203	*	149	206	206	*	229					
8	Mandir Marg)	161	*	134	180	175	*	180					
9	R K puram	170	*	140	196	207	*	199					
10	Punjabi Bagh	181	*	152	212	218	*	199					
11	Burari Crossing	103	97	*	119	*	146	118					
12	CRRI Mathura Road	159	145	127	180	163	181	169					
13	North Campus	143	135	124	154	*	177	150					
14	Pusa	107	100	91	118	115	129	119					
15	Aya Nagar	146	134	134	171	151	143	128					
16	Lodhi Road	162	149	128	176	168	177	154					
17	Pitampura	*	*	*	*	*	*	*					
18	IGI Airport Terminal-3	142	146	126	178	*	145	140					
Average	PM2.5 Conc. (μg/m³)	155	140 🗸	133 🗸	175 🔨	175	172 🗸	171 🔱					
Meteo	rological parameters	(16-17) November 17	(17-18) November 17	(18-19) November 17	(19-20) November 17	(20-21) November 17	(21-22) November 17	(22-23) November 17					
Mi	xing Height (m)	491	503 🕇	658 🔨	604 🗸	578 🗸	489 🗸	577 🔨					
W	ind Speed (m/s)	2.7	2.6	3.5	2.9 🗸	2.8	2.5	2.5					

20.4

56.0

19.4

45.2

18.7

44.3

19.0

45.2

*Inadequate data/Data not available

Temperature (°C)

Relative Humidity(%)

Daily mean values are compared with the previous value

20.4

62.1

20.8

61.9

19.3

38.3

PM_{2.5} Concentration in Delhi at different Air Quality Monitoring Stations with meteorological data (3:00 PM to 3:00PM)

		PM _{2.5} Concentration (μg/m³)							
S.No.	Station	(23-24) November 17	(24-25) November 17	(25-26) November 17	(26-27) November 17	(27-28) November 17	(28-29) November 17	(29-30) November 17	
1	IHBAS	154	151	179	133	125	163	174	
2	DMS	236	194	251	197	184	208	261	
3	NSIT	198	187	221	241	174	181	226	
4	ITO	155	164	195	179	150	171	185	
5	DTU	321	295	350	295	296	362	280	
6	Sirifort	170	173	202	219	174	195	234	
7	Anand Vihar	293	256	*	273	286	364	346	
8	Mandir Marg)	186	186	*	202	170	162	242	
9	R K puram	209	216	*	285	229	258	279	
10	Punjabi Bagh	228	221	*	233	*	*	*	
11	Burari Crossing	127	119	146	129	121	*	146	
12	CRRI Mathura Road	189	165	227	216	183	265	287	
13	North Campus	189	176	222	187	186	234	213	
14	Pusa	125	125	128	142	113	104	156	
15	Aya Nagar	116	136	171	181	159	147	167	
16	Lodhi Road	163	154	195	180	*	*	*	
17	Pitampura	*	*	*	*	*	*	*	
18	IGI Airport Terminal-3	132	145	187	193	163	125	204	
Average	PM2.5 Conc. (μg/m ³)	188	180 🗸	206 1	205 ↓	181 🗸	210 \uparrow	227 🔨	
	<u> </u>	(23-24) November 17	(24-25) November 17	(25-26) November 17	(26-27) November 17	(27-28) November 17	(28-29) November 17	(29-30) November 17	
Mi	xing Height (m)	446	489	407 ↓	460 1	527	429 🗸	406 🗸	
Wi	nd Speed (m/s)	2.1	2.2	1.6	2.6	2.1	1.2	1.4	
Те	mperature (^o C)	19.5	20.0	20.5	20.0	20.2	21.2	20.6	
Relat	ive Humidity(%)	38.9	41.3	41.2	42.6	44.3 1	44.4 \uparrow	50.8 1	

^{*}Inadequate data/Data not available

Daily mean values are compared with the previous value

Meteorological data summary 2017

Monthly average mixing height was 480 meters with maximum daily average 633 meters on 1st November and minimum 307 meters on 8th November. Monthly average wind speed was 1.9 m/s with maximum daily average 3.3 m/s on 19th November and minimum 1.0 m/s on 11th November. Monthly average temperature was 21.4 °C with maximum daily average 24.9°C on 6th November and minimum 18.8 °C on 20th November. Monthly average relative humidity was 55.1 % with maximum daily average 75.8 % on 8th November and minimum 38.5 % on 23rd November. Prominent wind direction in November 2017 was north west followed by north.

Monthly AQI values (May 2015 to November 30, 2017)

AQI status of Delhi (May 2015 to January 2017)

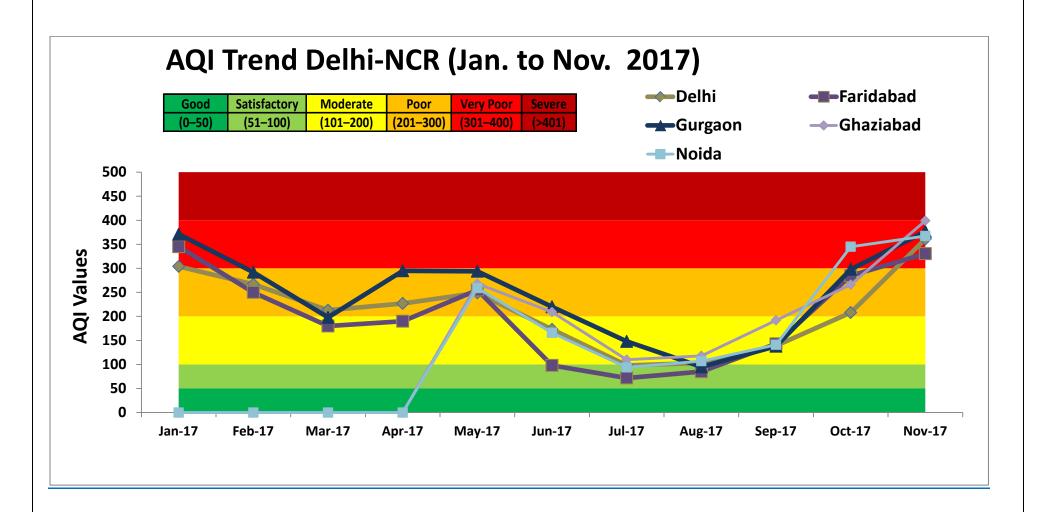
		_	_						
Months	Good	Satisfactory	Moderate	Poor	Very Poor	Severe	Data		
	(0–50)	(51–100)	(101–200)	(201–300)	(301–400)	(>401)	Availability		
May-15	*	1	5	18	6	*	30		
Jun-15	*	3	13	8	1	*	25		
Jul-15	*	11	17	2	1	*	31		
Aug-15	*	3	25	2	*	*	29		
Sep-15	*	4	12	13	1	*	30		
Oct-15	*	1	2	17	9	*	29		
Nov-15	*	*	*	2	20	8	30		
Dec-15	*	*	3	11	16	*	30		
Jan-16	*	*	*	2	23	6	31		
Feb-16	*	*	*	13	15	1	29		
Mar-16	*	*	7	16	4	*	27		
Apr-16	*	*	*	25	5	*	30		
May-16	*	*	7	19	5	*	31		
Jun-16	*	*	15	12	*	2	29		
Jul-16	*	6	15	4	*	*	25		
Aug-16	*	17	13	*	*	*	30		
Sep-16	*	1	24	5	*	*	30		
Oct-16	*	*	4	20	4	3	31		
Nov-16	*	*	*	3	17	10	30		
Dec-16	*	*	*	1	24	6	31		
Jan-17	*	*	2	9	20	*	31		
Note: '*' Indicates Data not available or Data does not fall in the category									

AQI status of Delhi (Feb 2017 to November 30, 2017)

Months	Good (0–50)	Satisfactory (51–100)	Moderate (101–200)	Poor (201–300)	Very Poor (301–400)	Severe (>401)	Data Availability
Feb-17	*	*	2	22	4	*	28
Mar-17	*	*	13	18	*	*	31
Apr-17	*	*	13	12	05	*	30
May-17	*	*	07	17	07	*	31
June-17	*	01	19	10	*	*	30
July-17	2	17	12	*	*	*	31
August-17	*	18	13	*	*	*	31
Sept-17	*	09	18	03	*	*	30
Oct-17	*	*	05	10	14	01	30
Nov-17	*	*	*	03	20	07	30
	Note:	'*' Indicates Data	not available or	Data does not fall	in the category		

Daily AQI values of Delhi-NCR (Nov, 2017)

	Alv	war	Bhi	wadi	D	elhi	Fario	dabad	Gur	gaon	Ghaz	iabad	N	oida
Date/Cities	AQI Index Values	Prominent Pollutants												
1-Nov-17	301	PM10	417	PM2.5	355	PM2.5, PM10	347	PM2.5	354	PM2.5	402	PM2.5	344	PM10
2-Nov-17	192	PM10	372	PM2.5	311	PM2.5, PM10	82	со	325	PM2.5	352	PM2.5	321	PM10
3-Nov-17	94	О3	401	PM2.5	324	PM2.5	344	PM2.5	338	PM2.5	383	PM2.5	349	PM2.5
4-Nov-17	221	PM10	3 69	PM2.5	351	PM2.5	323	PM2.5	338	PM2.5	396	PM2.5	365	PM2.5
5-Nov-17	87	О3	407	PM2.5	368	PM2.5, PM10	334	PM2.5	345	PM2.5	439	PM2.5	423	PM10, CO
6-Nov-17	91	О3	*	*	354	PM2.5, PM10	276	PM2.5	331	PM2.5	441	PM2.5	407	PM2.5
7-Nov-17	191	PM10	439	PM2.5	448	PM2.5, PM10	409	PM2.5	368	PM2.5	475	PM2.5	468	PM10, O3
8-Nov-17	293	PM2.5	467	PM2.5	478	PM2.5, PM10	472	PM2.5	459	PM2.5	372	PM2.5	469	PM2.5
9-Nov-17	*	*	468	PM2.5	486	PM2.5, PM10	482	PM2.5	494	PM2.5	499	PM2.5	487	со
10-Nov-17	336	PM2.5	463	PM2.5	468	PM2.5, PM10	428	PM2.5	480	PM2.5	485	PM2.5	470	PM2.5, CO
11-Nov-17	355	PM2.5	435	PM2.5	403	PM.5, PM10	367	PM2.5	436	PM2.5	486	PM2.5	429	PM2.5, CO
12-Nov-17	326	PM2.5	447	PM2.5	460	PM2.5, PM10	468	PM2.5	460	PM2.5	498	PM2.5	492	PM2.5, O3
13-Nov-17	306	PM2.5	470	PM2.5	460	PM2.5, PM10	422	PM2.5	466	PM2.5	497	PM2.5	466	со
14-Nov-17	268	PM2.5	365	PM2.5	308	NA	348	NA	355	PM2.5	467	PM2.5	410	NA
15-Nov-17	304	PM2.5	331	PM2.5	361	PM2.5	334	PM2.5	350	PM2.5	418	PM2.5	367	PM2.5
16-Nov-17	312	PM2.5	338	PM2.5	363	PM2.5	335	PM2.5	354	PM2.5	419	PM2.5	366	PM2.5
17-Nov-17	278	PM2.5	301	PM2.5	310	PM2.5	291	PM2.5	307	PM2.5	378	PM10	286	PM2.5
18-Nov-17	134	PM2.5	272	PM2.5	298	PM2.5	305	PM2.5	310	PM2.5	364	PM10	288	PM2.5
19-Nov-17	280	PM2.5	322	PM2.5	292	PM2.5	228	PM2.5	327	PM2.5	340	PM10	259	PM2.5
20-Nov-17	159	PM2.5	306	PM2.5	326	PM2.5	291	PM2.5	330	PM2.5	368	PM2.5	299	PM2.5
21-Nov-17	120	PM2.5	261	PM2.5	324	PM2.5	279	PM2.5	306	PM2.5	380	PM2.5	300	PM2.5
22-Nov-17	234	PM2.5	281	PM2.5	320	PM2.5	NA	NA	NA	NA	292	PM2.5	340	PM2.5
23-Nov-17	168	PM2.5	NA	NA	288	PM2.5	270	PM2.5	412	PM2.5	273	PM2.5	307	PM2.5
24-Nov-17	173	PM2.5	300	PM2.5	335	PM2.5	279	PM2.5	404	PM2.5	330	PM2.5	331	PM2.5
25-Nov-17	217	PM2.5	275	PM2.5	322	PM2.5	254	PM2.5	401	PM2.5	316	PM2.5	336	PM2.5
26-Nov-17	221	PM2.5	408	PM2.5	352	PM2.5	327	PM2.5	449	PM2.5	307	PM2.5	387	PM2.5
27-Nov-17	NA	NA	359	PM2.5	362	PM2.5	309	PM2.5	413	PM2.5	360	PM2.5	347	PM2.5
28-Nov-17	NA	NA	115	PM2.5	307	PM2.5	294	PM2.5	386	PM2.5	342	PM2.5	340	PM2.5
29-Nov-17	NA	NA	NA	NA	334	PM2.5	367	PM2.5	318	PM2.5	443	PM2.5	206	PM10, CO
30-Nov-17	NA	NA	NA	NA	360	PM2.5	322	PM2.5	312	PM2.5	453	PM2.5	359	PM2.5, PM10
Max Min	355 87		470 115		486 288		482 82		494 306		499 273		492 206	
Average	226		361		361		331		377		399		367	



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. ualm3	Annual*	50	20	Improved West and Gaeke					
SO ₂ , μg/m ³	24 hours**	80	80	Ultraviolet fluorescence					
	Annual*	40	30	Modified Jacob & Hochheiser (Na-Arsenite)					
NO ₂ , μg/m ³	24 hours**	80	80	Chemiluminescence					
	Annual*	60	60	Gravimetric					
PM ₁₀ , μg/m ³	24 hours**	100	100	TOEMBeta attenuation					
	Annual*	40	40	Gravimetric					
PM _{2.5} , μg/m ³	24 hours**	60	60	TOEMBeta 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/m ³	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/m ³	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 -IV

S. No.	State	No. of stations State 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
	Delhi		MandirMarg	DPCC Delhi	PM10, SO2, NO2, PM2.5, NH3, CO, O3, Benzene
			AnandVihar	DPCC Delhi	PM10, SO2, NO2, PM2.5, O3, Benzene
		4-	R. K. Puram	DPCC Delhi	PM10, SO2, NO2, PM2.5, NH3, CO, O3, Benzene
1.		17	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	SAFAR/IMD Delhi	NO ₂ , CO, O ₃ , PM _{2.5} , PM ₁₀
			Road		
			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	SAFAR/IMD Delhi	NO ₂ , CO, O ₃ , PM _{2.5} , PM ₁₀
			Terminal-3		

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
		Ghaziabad	1	Vasundhara	UPPCB	PM10, SO2, NO2, PM2.5, NH3, CO, O3, Benzene
2.	Harayana	Gurugram	1	Vikas Sadan	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