

STATUS OF AMBIENT AIR QUALITY OF MANALI

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During 2019-20 Station-1

Nehru Park Manali (C)

Month	SO ₂ in µg/m ³		NO _x in µg/m ³		RSPM in µg/m ³		NH ₃ in µg/m ³		PM 2.5 µg/m ³	
	A.M	A.S.	A.M	A.S.	A.M	A.S.	A.M.	A.S.	A.M.	A.S.
Apr-19	2.96	50.0	11.70	40.0	116.42	60.0	3.62	100.0	28.44	40.0
May-19	2.66	50.0	12.00	40.0	106.76	60.0	3.74	100.0	29.57	40.0
Jun-19	2.99	50.0	11.30	40.0	111.50	60.0	4.20	100.0	31.83	40.0
Jul-19	2.38	50.0	10.70	40.0	79.56	60.0	4.96	100.0	28.70	40.0
Aug-19	2.09	50.0	10.90	40.0	54.42	60.0	4.46	100.0	23.19	40.0
Sep-19	2.18	50.0	10.50	40.0	49.84	60.0	3.89	100.0	20.85	40.0
Oct-19	2.48	50.0	10.70	40.0	56.92	60.0	3.78	100.0	22.66	40.0
Nov-19	2.04	50.0	11.30	40.0	65.29	60.0	4.87	100.0	27.94	40.0
Dec-19	2.28	50.0	10.40	40.0	63.32	60.0	3.96	100.0	24.38	40.0
Jan-20	2.24	50.0	9.19	40.0	58.42	60.0	4.30	100.0	23.57	40.0
Feb-20	2.24	50.0	10.10	40.0	53.83	60.0	2.24	100.0	10.14	40.0
Mar-20	2.45	50.0	9.78	40.0	41.01	60.0	2.45	100.0	9.78	40.0

Station-2

Hadimba Road Manali (R)

Month	SO ₂ in µg/m ³		NO _x in µg/m ³		RSPM in µg/m ³		NH ₃ in µg/m ³		PM 2.5 µg/m ³	
	A.M	A.S.	A.M	A.S.	A.M	A.S.	A.M.	A.S.	A.M.	A.S.
Apr-19	2.06	50.0	4.88	40.0	56.54	60.0	3.08	100.0	---	---
May-19	2.00	50.0	5.06	40.0	57.37	60.0	2.81	100.0	---	---
Jun-19	2.04	50.0	4.62	40.0	52.32	60.0	3.08	100.0	---	---
Jul-19	2.00	50.0	4.61	40.0	41.11	60.0	4.69	100.0	---	---
Aug-19	2.00	50.0	4.95	40.0	23.99	60.0	5.09	100.0	---	---
Sep-19	2.00	50.0	4.50	40.0	28.46	60.0	3.51	100.0	---	---
Oct-19	2.00	50.0	4.50	40.0	32.81	60.0	3.72	100.0	---	---
Nov-19	2.07	50.0	5.24	40.0	53.91	60.0	4.90	100.0	17.17	40.0
Dec-19	2.07	50.0	4.85	40.0	51.92	60.0	3.41	100.0	19.58	40.0
Jan-20	2.00	50.0	5.07	40.0	40.38	60.0	3.59	100.0	19.99	40.0
Feb-20	2.00	50.0	4.58	40.0	46.16	60.0		100.0	---	40.0
Mar-20	2.10	50.0	5.13	40.0	41.69	60.0	4.13	100.0	16.71	40.0

**During 2018-19
Station-1**

Nehru Park Manali (C)

Month	SO ₂ in µg/m ³		NO _x in µg/m ³		RSPM in µg/m ³		NH ₃ in µg/m ³		PM 2.5 µg/m ³	
	A.M	A.S.	A.M	A.S.	A.M	A.S.	A.M.	A.S.	A.M.	A.S.
Apr-18	2.2	50.0	11.0	40.0	69.5	60.0	5.12	100.00	---	---
May-18	2.9	50.0	15.2	40.0	109.2	60.0	5.33	100.00		
Jun-18	2.9	50.0	20.0	40.0	108.80	60.0	6.38	100.00	39.16	40.00
Jul-18	2.3	50.0	12.9	40.0	67.1	60.0	5.98	100.00	24.73	40.00
Aug-18	2.4	50.0	11.4	40.0	64.5	60.0	5.11	100.00	19.97	40.00
Sep-18	2.3	50.0	11.8	40.0	61.0	60.0	4.22	100.00	17.99	40.00
Oct-18	2.3	50.0	11.3	40.0	67.5	60.0	4.09	100.00	20.85	40.00
Nov-18	2.6	50.0	12.7	40.0	108.8	60.0	6.99	100.00	35.09	40.00
Dec-18	2.2	50.0	8.7	40.0	116.4	60.0	4.19	100.00	45.17	40.00
Jan-19	2.1	50.0	10.1	40.0	88.3	60.0	4.85	100.00	34.04	40.00
Feb-19	2.0	50.0	11.1	40.0	66.0	60.0	4.04	100.00	22.13	40.00
Mar-19	2.2	50.0	10.2	40.0	102.2	60.0	4.64	100.00	33.74	40.00

Station-2

Hadimba Road Manali (R)

Month	SO ₂ in µg/m ³		NO _x in µg/m ³		RSPM in µg/m ³		NH ₃ in µg/m ³		PM 2.5 µg/m ³	
	A.M	A.S.	A.M	A.S.	A.M	A.S.	A.M.	A.S.	A.M.	A.S.
Apr-18	2.0	50.0	5.1	40.0	47.4	60.0	4.6	100.0	22.75	40.0
May-18	2.2	50.0	6.7	40.0	79.6	60.0	4.14	100.0	28.72	40.0
Jun-18	2.1	50.0	9.2	40.0	64.7	60.0	5.09	100.0	22.78	40.0
Jul-18	2.0	50.0	5.0	40.0	46.2	60.0	4.7	100.0	16.77	40.0
Aug-18	2.0	50.0	5.0	40.0	40.2	60.0	4.7	100.0	13.54	40.0
Sep-18	2.1	50.0	4.6	40.0	31.3	60.0	4.24	100.0	10.36	40.0
Oct-18	2.0	50.0	5.4	40.0	44.7	60.0	3.9	100.0	12.66	40.0
Nov-18	2.0	50.0	5.9	40.0	53.3	60.0	5.63	100.0	15.89	40.0
Dec-18	2.0	50.0	5.1	40.0	64.8	60.0	2.51	100.0	23.26	40.0
Jan-19	2.0	50.0	5.7	40.0	56.9	60.0	3.36	100.0	16.58	40.0
Feb-19	2.0	50.0	6.3	40.0	53.0	60.0	4.96	100.0	16.45	40.0
Mar-19	2.0	50.0	4.8	40.0	48.1	60.0	4.13	100.0	14.79	40.0

During 2017-18**Station-1****Nehru Park Manali (C)**

Month	SOx		NOx		RSPM	
	A.M	A.S.	A.M	A.S.	A.M	A.S.
Apr-17	2.0	50	11.7	40	61.9	60
May-17	2.8	50	16.4	40	57.9	60
Jun-17	2.8	50	14.5	40	52.1	60
Jul-17	2.5	50	11.0	40	41.9	60
Aug-17	2.4	50	8.0	40	31.6	60
Sep-17	2.5	50	11.2	40	35.0	60
Oct-17	2.8	50	12.9	40	43.7	60
Nov-17	2.1	50	10.9	40	48.9	60
Dec-17	2.4	50	13.1	40	60.5	60
Jan-18	2.2	50	10.8	40	62.5	60
Feb-18	2.3	50	11.0	40	72.3	60
Mar-18	2.5	50	11.8	40	67.7	60

Station-2**Hadimba Road Manali (R)**

Month	SOx		NOx		RSPM	
	A.M	A.S.	A.M	A.S.	A.M	A.S.
Apr-17	2.2	50	8.0	40	58.5	60
May-17	2.1	50	7.0	40	41.6	60
Jun-17	2.2	50	6.1	40	48.3	60
Jul-17	2.1	50	4.7	40	24.8	60
Aug-17	2.0	50	4.8	40	22.5	60
Sep-17	2.1	50	5.1	40	20.4	60
Oct-17	2.1	50	5.4	40	41.1	60
Nov-17	2.0	50	5.8	40	42.2	60
Dec-17	2.0	50	4.5	40	40.7	60
Jan-18	2.0	50	5.1	40	52.7	60
Feb-18	2.0	50	5.1	40	50.3	60
Mar-18	2.0	50	4.9	40	50.6	60

**During 2016-17
Station-1**

Nehru Park Manali (C)

Month	SO _x		NO _x		RSPM	
	A.M	A.S.	A.M	A.S.	A.M	A.S.
Apr-16	2.0	50	13.7	40	56.3	60
May-16	2.1	50	13.3	40	59.7	60
Jun-16	2.0	50	14.5	40	56.0	60
Jul-16	2.0	50	13.1	40	50.1	60
Aug-16	2.1	50	10.4	40	37.6	60
Sep-16	2.0	50	9.9	40	57.2	60
Oct-16	2.3	50	10.8	40	69.8	60
Nov-16	2.0	50	7.8	40	76.7	60
Dec-16	2.0	50	9.0	40	89.2	60
Jan-17	2.0	50	9.2	40	44.7	60
Feb-17	2.0	50	9.6	40	45.3	60
Mar-17	2.0	50	8.7	40	53.1	60

Station-2

Hadimba Road Manali (R)

Month	SO _x		NO _x		RSPM	
	A.M	A.S.	A.M	A.S.	A.M	A.S.
Apr-16	2.0	50	5.6	40	37.0	60
May-16	2.0	50	5.9	40	50.8	60
Jun-16	2.0	50	4.8	40	42.0	60
Jul-16	2.0	50	5.4	40	29.4	60
Aug-16	2.0	50	4.5	40	21.8	60
Sep-16	2.0	50	4.7	40	30.0	60
Oct-16	2.0	50	4.8	40	42.8	60
Nov-16	2.0	50	6.4	40	59.0	60
Dec-16	2.0	50	5.6	40	61.9	60
Jan-17	2.0	50	6.3	40	42.6	60
Feb-17	2.0	50	4.6	40	41.6	60
Mar-17	2.0	50	5.6	40	39.3	60

During 2015-16**Station-1****NEHRU PARK MANALI (C)**

Month	SO _x in µg/m ³		NO _x in µg/m ³		RSPM in µg/m ³	
	A.M	A.S.	A.M	A.M	A.S.	Standard
Apr-15	2.1	50.0	12.5	40.0	55.2	60.0
May-15	2.0	50.0	14.8	40.0	64.4	60.0
Jun-15	2.2	50.0	16.7	40.0	55.9	60.0
Jul-15	2.1	50.0	14.9	40.0	38.6	60.0
Aug-15	2.0	50.0	15.1	40.0	40.6	60.0
Sep-15	2.0	50.0	13.7	40.0	49.3	60.0
Oct-15	2.0	50.0	14.4	40.0	62.0	60.0
Nov-15	2.1	50.0	14.1	40.0	66.3	60.0
Dec-15	2.0	50.0	12.1	40.0	69.0	60.0
Jan-16	2.0	50.0	10.6	40.0	58.3	60.0
Feb-16	2.0	50.0	12.2	40.0	53.2	60.0
Mar-16	2.0	50.0	10.8	40.0	46.4	60.0

Station-2**HADIMBA ROAD MANALI (R)**

Month	SO _x in µg/m ³		NO _x in µg/m ³		RSPM in µg/m ³	
	A.M	A.S.	A.M	A.M	A.S.	Standard
Apr-15	2.0	50.0	6.3	40.0	43.7	60.0
May-15	2.0	50.0	6.5	40.0	45.8	60.0
Jun-15	2.3	50.0	6.4	40.0	34.8	60.0
Jul-15	2.0	50.0	5.2	40.0	24.2	60.0
Aug-15	2.1	50.0	5.0	40.0	18.9	60.0
Sep-15	2.1	50.0	6.2	40.0	27.4	60.0
Oct-15	2.3	50.0	5.4	40.0	36.5	60.0
Nov-15	2.1	50.0	5.9	40.0	47.3	60.0
Dec-15	2.1	50.0	6.3	40.0	49.4	60.0
Jan-16	2.0	50.0	5.3	40.0	51.7	60.0
Feb-16	2.0	50.0	4.8	40.0	44.7	60.0
Mar-16	2.0	50.0	5.5	40.0	42.8	60.0

**During 2014-15
Station-1**

NEHRU PARK MANALI (C)

Month	SO ₂ in µg/ m ³		NO _x in µg/ m ³		RSPM in µg/ m ³		SPM in µg/ m ³	
	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak
Apr-14	2.9	9.8	13.9	41.3	50.3	100.8	117.1	205.9
May-14	2.5	7.4	13.1	31.3	51.4	98.4	113.7	222.2
Jun-14	2.8	7.5	18.5	32.7	61.4	110.0	129.7	229.7
Jul-14	2.1	5.0	13.5	27.2	49.1	130.3	106.3	258.8
Aug-14	2.1	4.8	12.0	23.0	45.7	83.5	96.2	165.4
Sep-14	2.0	4.2	10.0	20.5	41.3	96.3	100.0	206.7
Oct-14	2.5	9.3	15.7	32.7	58.5	117.1	136.2	230.4
Nov-14	2.0	4.1	15.4	40.2	64.4	119.4	137.5	228.2
Dec-14	2.0	2.0	13.9	30.0	66.0	144.0	143.0	303.0
Jan-15	2.1	4.6	14.9	29.8	57.9	135.9	128.2	287.1
Feb-15	2.1	5.4	14.3	25.7	46.8	122.4	117.7	260.0
Mar-15	2.0	2.0	12.2	22.0	44.2	91.2	110.7	212.2

Station-2

HADIMBA ROAD MANALI (R)

Month	SO ₂ in µg/ m ³		NO _x in µg/ m ³		RSPM in µg/ m ³		SPM in µg/ m ³	
	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak
Apr-14	2.0	2.0	8.3	18.3	34.0	81.2	83.9	180.5
May-14	2.0	2.0	7.7	22.5	39.1	108.5	89.3	228.1
Jun-14	2.8	6.2	14.7	33.7	42.6	84.8	93.2	162.2
Jul-14	2.3	6.2	12.7	24.3	29.1	64.2	70.7	133.9
Aug-14	2.1	4.2	8.0	26.1	21.8	42.7	50.1	99.7
Sep-14	2.0	2.0	6.3	19.5	25.1	89.9	66.4	210.1
Oct-14	2.0	2.0	8.4	20.2	27.4	67.2	67.6	137.2
Nov-14	2.0	2.0	7.0	13.1	25.1	67.8	65.4	141.1
Dec-14	2.0	2.0	8.1	28.1	37.7	90.0	87.4	176.6
Jan-15	2.1	4.0	8.1	36.0	31.0	80.2	77.7	182.6
Feb-15	2.0	2.0	5.9	16.9	30.8	76.3	73.6	163.1
Mar-15	2.0	2.0	5.5	16.2	32.9	72.3	80.9	160.0

**During 2013-14
Station-1**

NEHRU PARK MANALI (C)

Month	SO ₂ in µg/ m ³		NO _x in µg/ m ³		RSPM in µg/ m ³	
	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak
Apr-13	3.1	10.5	13.0	36.3	63.5	151.1
May-13	3.5	9.3	14.9	36.3	114.4	340.5
Jun-13	2.9	11.0	15.5	41.9	74.8	227.7
Jul-13	2.6	6.5	8.3	18.7	45.2	92.9
Aug-13	2.1	5.0	8.2	25.4	41.8	98.6
Sep-13	2.5	5.8	10.2	15.3	44.6	98.6
Oct-13	2.4	7.4	9.9	17.3	45.6	132.2
Nov-13	2.2	6.2	9.1	24.2	37.3	86.9
Dec-13	2.1	5.8	8.9	17.2	47.8	120.4
Jan-14	2.3	5.8	12.1	25.0	34.1	106.1
Feb-14	2.0	2.0	7.3	13.7	23.8	76.5
Mar-14	2.1	4.7	9.5	17.2	49.7	100.4

Station-2

HADIMBA ROAD MANALI (R)

Month	SO ₂ in µg/ m ³		NO _x in µg/ m ³		RSPM in µg/ m ³	
	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak
Apr-13	2.5	7.5	10.2	30.5	25.6	56.5
May-13	2.7	11.3	12.7	30.3	73.9	151.3
Jun-13	2.9	9.3	14.1	33.7	49.6	132.7
Jul-13	2.7	7.4	6.9	17.7	20.7	50.8
Aug-13	2.0	2.0	8.5	32.9	26.7	64.4
Sep-13	2.6	6.7	9.3	15.9	18.4	47.3
Oct-13	2.2	7.9	8.4	20.9	24.5	58.5
Nov-13	2.2	6.2	9.4	24.5	43.6	134.0
Dec-13	2.2	5.0	8.4	16.5	38.8	104.3
Jan-14	2.1	4.7	9.8	19.4	26.0	57.7
Feb-14	2.1	4.7	8.6	14.0	22.2	51.7
Mar-14	2.1	4.7	10.9	18.9	23.7	47.3

**During 2012-13
Station-1**

NEHRU PARK MANALI (C)

Month	SO ₂ in µg/ m ³		NO _x in µg/ m ³		RSPM in µg/ m ³	
	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak
Apr-12	2.0	2.0	13.3	29.7	178.0	448.4
May-12	3.7	7.9	19.8	34.7	171.6	314.9
Jun-12	5.9	25.5	21.3	52.7	163.0	295.6
Jul-12	10.6	21.7	11.7	25.0	131.3	183.8
Aug-12	4.8	15.3	9.1	28.7	31.7	80.0
Sep-12	4.3	15.6	9.3	19.9	32.2	104.3
Oct-12	2.3	8.3	13.4	46.5	86.6	321.2
Nov-12	3.1	11.5	15.9	33.1	94.4	226.6
Dec-12	2.2	10.4	14.5	41.5	97.3	251.4
Jan-13	2.2	5.4	11.2	28.1	64.7	137.3
Feb-13	2.1	4.3	12.5	25.8	38.0	90.4
Mar-13	2.3	5.9	13.3	31.1	57.4	136.3

Station-2

HADIMBA ROAD MANALI (R)

Month	SO ₂ in µg/ m ³		NO _x in µg/ m ³		RSPM in µg/ m ³	
	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak
Apr-12	2.0	2.0	6.2	17.1	67.6	121.8
May-12	4.5	14.1	10.3	30.3	66.9	130.5
Jun-12	5.8	25.8	15.1	74.2	109.0	219.5
Jul-12	10.4	19.3	9.6	28.5	64.2	145.7
Aug-12	6.2	21.2	8.0	58.3	17.9	45.8
Sep-12	3.4	11.7	7.2	19.4	21.3	77.2
Oct-12	2.4	6.2	8.4	26.3	38.3	77.4
Nov-12	3.4	15.4	8.2	38.2	54.2	162.0
Dec-12	2.6	6.2	12.9	33.0	46.7	102.7
Jan-13	2.6	8.0	8.3	48.6	59.2	152.6
Feb-13	2.3	6.3	10.9	38.4	34.4	94.4
Mar-13	2.4	5.6	8.7	21.6	38.4	93.5

During 2011-12

Station-1

NEHRU PARK MANALI (C)

Month	SO ₂ in µg/ m ³		NO _x in µg/ m ³		RSPM in µg/ m ³	
	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak
Apr-11	----	----	----	----	----	----
May-11	----	----	----	----	----	----
Jun-11	----	----	----	----	----	----
Jul-11	----	----	----	----	56.0	116.9
Aug-11	2.0	2.0	4.5	4.5	42.0	68.8
Sep-11	2.3	4.8	6.9	17.1	82.0	166.3
Oct-11	2.3	5.7	8.3	22.9	145.0	452.9
Nov-11	2.3	5.1	16.9	28.8	137.0	264.3
Dec-11	----	----	----	----	198.0	449.1
Jan-12	----	----	----	----	210.0	500.0
Feb-12	2.0	2.0	10.9	26.1	89.0	299.8
Mar-12	2.0	2.0	11.4	29.7	158.0	416.9

Station-2

HADIMBA ROAD MANALI (R)

Month	SO ₂ in µg/ m ³		NO _x in µg/ m ³		RSPM in µg/ m ³	
	M. Avg.	Peak	M. Avg.	Peak	M. Avg.	Peak
Apr-11	----	----	----	----	----	----
May-11	----	----	----	----	----	----
Jun-11	----	----	----	----	----	----
Jul-11	----	----	----	----	----	----
Aug-11	----	----	----	----	----	----
Sep-11	----	----	----	----	----	----
Oct-11	2.0	2.0	6.3	16.1	73.0	297.0
Nov-11	2.5	5.9	10.8	27.9	130.0	636.0
Dec-11	----	----	----	----	147.0	170.7
Jan-12	----	----	----	----	----	----
Feb-12	----	----	----	----	----	----
Mar-12	2.0	2.0	10.3	30.7	110.0	245.9

A.S. = Annual Standard

A.M. = Arithmetic Mean