

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

RAJYA SABHA
UNSTARRED QUESTION No. 682
TO BE ANSWERED ON 26.07.2021

Air Quality Monitoring Stations

682. SHRI PARTAP SINGH BAJWA:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- (a) whether Government has conducted any research on the number of air quality monitoring stations that are ideally required and the total number of air quality monitoring stations in India; (b) the number of air quality monitoring stations based in urban, semi-urban and rural areas and the number of air quality monitoring stations that are equipped to measure PM 2.5 pollution;
- (c) the list of air quality monitoring stations, State-wise; and
- (d) the list of air quality monitoring stations in Punjab, district-wise and number of air quality monitoring stations Government has built/commissioned each year since 2010 till date?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(SHRI ASHWINI KUMAR CHOUBEY)

(a)& (b):

The Central Pollution Control Board (CPCB) designed population based criteria for ambient air quality monitoring network with optimum blend of continuous and manual monitoring system (**Annexure-I**). According to the criteria, total 1706 Manual & 1070 Continuous Ambient Air Quality Monitoring Stations are required in cities/town having population more than 1 lakh. The present monitoring networks covers 394 cities/towns and have 1114 monitoring stations across the country, in 28 States & 6 Union Territories.

PM_{2.5} is monitored at 664 locations in 230 cities through Manual & Continuous Monitoring stations.

(c):

The state-wise list of ambient air quality monitoring stations is annexed at **Annexure II**.

(d):

The list of 47 Manual and 8 Continuous Monitoring Ambient Air Quality stations in Punjab is annexed at **Annexure III**.

The number of ambient air quality monitoring stations installed since 2010 is annexed at **Annexure IV**.

Annexure-I**Criteria for Designing of Ambient Air Quality Monitoring Network**

Population (Census 2011)	Minimum No. of Manual Station	Minimum No. ofCAAQMS	Total
1,00,000- < 5,00,000	1-Background 2-Residential/ Commercial	1-Residential	4
5,00,000-<10,00,000	1-Background 2-Residential/ Commercial	1-Residential 1-Traffic dominant area 1-Commercial	6
10,00,000- <50,00,000	1-Background 2-Residential/ Commercial	2-Residential 1-Traffic dominant area 1-Commercial 1-Industrial area	8
≥50,00,000	1-Background in upwind direction 1-Background in down wind direction 2-Residential/ Commercial	4-Residential 3-Traffic dominant area 3-Commercial 2-Industrial area	16

Annexure-II

**Ambient Air Quality Monitoring Stations in the country
(Manual&Continuous)**

S. No.	State/UTs	Manual		CAAQMS	
		No. of City	No. of Station	No. of City	No. of Station
1.	Andhra Pradesh	15	72	5	6
2.	Arunachal Pradesh	2	2	1	1
3.	Assam	13	23	1	2
4.	Bihar	7	8	4	11
5.	Chandigarh (UT)	1	5	1	1
6.	Chattishgarh	5	13	-	-
7.	Dadar& Nagar Haveli and Daman & Diu (UT)	4	6	-	-
8.	Delhi (UT)	1	10	1	40
9.	Goa	18	18	-	-
10.	Gujarat	7	24	6	15
11.	Haryana	3	5	24	30
12.	Himachal Pradesh	14	25	-	-
13.	Jammu and Kashmir	3	7	1	1
14.	Jharkhand	7	10	1	1
15.	Karnataka	18	30	22	31
16.	Kerala	12	29	8	9
17.	Lakshadweep (UT)	1	1	-	-
18.	Madhya Pradesh	15	42	15	16
19.	Maharashtra	27	80	10	41
20.	Manipur	1	1	-	-
21.	Meghalaya	7	10	1	1
22.	Mizoram	8	19	1	1
23.	Nagaland	2	9	1	1
24.	Odisha	16	38	2	2
25.	Puducherry (UT)	2	6	1	1
26.	Punjab	34	47	8	8
27.	Rajasthan	8	39	8	10
28.	Sikkim	8	9	-	-
29.	Tamil Nadu	8	31	4	11
30.	Telangana	11	25	1	6
31.	Tripura	1	2	1	1
32.	Uttar Pradesh	26	82	14	35
33.	Uttarakhand	6	8	-	-
34.	West Bengal	41	82	6	14
Total	34	352	818	148	296

**Ambient Air Quality Monitoring Stations in Punjab
(Manual & Continuous)**

District	City / town / village	Number of Station	
		CAAQMS	Manual
Ajitgarh/SahibzadaAjit Singh Nagar	DeraBassi		2
Amritsar	Amritsar	1	2
Amritsar	Kotladoo (Ajnala)		1
Amritsar	Tirathpur (Amritsar I)		1
Barnala	AspalKhurd (Tapa)		1
Bathinda	Bhatinda	1	1
Bathinda	Poohli (Bhatinda)		1
Faridkot	Guru Ki Dhab (Kotkapura)		1
Fatehgarh Sahib	GobindgarhMandiGobindgarh	1	3
Fatehgarh Sahib	Kharaori (Sirhind)		1
Fazilka	Peer Mohammad (Jalalabad)		1
Ferozpur	LakhokeBehram (Ferozpur)		1
Gurdaspur	JaitoSarja (Batala)		1
Gurdaspur	Mureedke (Batala)		1
Hoshiarpur	Binjon (Garshankar)		1
Jalandhar	Bara Pind (Goraya)		1
Jalandhar	Jalandhar	1	4
Jalandhar	Subanpur (Dhilwan)		1
Ludhiana	Aligarh (Jagraon)		1
Ludhiana	Bishanpura (Payal)		1
Ludhiana	Chowkimann (Jagraon)		1
Ludhiana	Khanna	1	2
Ludhiana	Ludhiana	1	4
Ludhiana	Rohila (Samrala)		1
Muktsar	MrarKalan (Muktsar)		1
Nawashahar / ShahidBhagat Singh Nagar	Mukandpur (Nawashahar)		1
Pathankot	Dera Baba Nanak		1
Patiala	Fatehpur (Samana)		1
Patiala	Patiala	1	2
Patiala	Rakhra (Patiala)		1
Ropar/Rupnagar	NayaNangal		2
Ropar/Rupnagar	Rupnagar	1	
Sangrur	Changal (Sangrur)		1
Sangrur	Naudhrani (Malerkotla)		1
Sangrur	QilaBharian (Sangrur)		1
	35 cities / villages	8	47

Note: Names in parentheses are Tehsils

Annexure-IV**Ambient air quality monitoring stations in Punjab**

Year	Number of monitoring stations	
	Manual	CAAQMS
2020-2021	-	-
2019-2020	-	-
2018-2019	15	3
2017-2018	4	3
2016-2017	3	-
2015-2016	1	-
2014-2015	-	2
2013-2014	-	-
2012-2013	-	-
2011-2012	-	-
2010-2011	24 (existing)	-
