

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION NO. 1778
TO BE ANSWERED ON WEDNESDAY, 10TH DECEMBER, 2025**

INSTALLATION OF NEW WEATHER RADARS IN TAMIL NADU

1778. SHRI S JAGATHRATCHAKAN:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the number and locations of new weather radars proposed to be installed in Tamil Nadu under the National Radar Augmentation Plan and whether the sites have been identified and if so, the details thereof;
- (b) the total number of weather radars currently operational in Tamil Nadu including the type of radar and year of commissioning;
- (c) the total number of weather radars that are currently present in each State, State-wise;
- (d) the number of additional weather radars proposed to be added in each State and Union Territory under the National Augmentation Plan along with the timeline set for each State under the plan; and
- (e) the details of the factors and criteria used by the Government in determining the number and location of weather radars to be installed in each State?

**ANSWER
THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR
MINISTRY OF SCIENCE AND TECHNOLOGY
AND EARTH SCIENCES
(DR. JITENDRA SINGH)**

- (a) It is proposed to install 5 weather radars with locations at Kanyakumari, Tiruchirappali, Coimbatore, Yercaud, and Ramanathapuram. Out of these five, three radars are under the Mission Mausam & two radars are under the Tamil Nadu Government initiative through the Tamil Nadu Disaster Risk Reduction Agency.
- (b) Currently, 8 radars are operational in Tamil Nadu and adjoining States, which cover the State. The list is enclosed in Annexure-1.
- (c) Currently, 47 radars are in operational across India with 87% of the total area of the country coming under radar coverage. A state-wise list is given in Annexure-2.
- (d) & (e) In the coming years, additional DWRs will be installed as per the requirement based on the following factors and criteria -
 - The entire country should be covered by radar for round-the-clock monitoring of severe weather.
 - Relatively more numbers of radars in the hilly areas, coastal areas, and metro cities, considering the vulnerability.
 - Replacement of old radars.
 - Redundancy in radar availability in the highly vulnerable areas.
 - Suitability of the location for the installation of radar.

Annexure-1

1. S-Band Doppler Weather Radar (DWR) at Sriharikota, Andhra Pradesh, was commissioned in 2004 and is operated by the Indian Space Research Organisation (ISRO).
2. S-Band DWR Chennai at Chennai Port Authority (ChPA), Tamil Nadu, Commissioned in 2002, operated by the IMD.
3. X-Band DWR at the National Institute of Ocean Technology, Chennai, Commissioned in 2021 and operated by the IMD.
4. C- Band DWR at IGCAR, Tamil Nadu, Commissioned in 2023, operated by DAE.
5. S-Band DWR Karaikal, Puducherry, Commissioned in 2015, operated by the IMD.
6. C- Band DWR Thiruvananthapuram operated by ISRO since 2016.
7. S-Band DWR Kochi, Kerala, operated by the IMD since 2017.
8. C- Band DWR Sulur, Tamil Nadu, operated by IAF since 2018.

Annexure-2

S. No.	State/Union Territory	DWR Locations
1.	Andhra Pradesh	Machilipatnam (S-Band)
2.	Andhra Pradesh	Visakhapatnam (S-Band)
3.	Andhra Pradesh	Sriharikota, ISRO (S-Band)
4.	Assam	Mohanbari (S-Band)
5.	Bihar	Patna (S-Band)
6.	Chhattisgarh	Raipur
7.	Goa	Goa (S-Band)
8.	Gujarat	Bhuj (S-Band)
9.	Himachal Pradesh	Jot (X-Band)
10.	Himachal Pradesh	Murari Devi (X-Band)
11.	Himachal Pradesh	Kufri (X-Band)
12.	Kerala	Kochi (S-Band)
13.	Kerala	VSSC, ISRO Thiruvananthapuram (C-Band)
14.	Madhya Pradesh	Bhopal (S-Band)
15.	Maharashtra	Mumbai (S-Band)
16.	Maharashtra	Nagpur (S-Band)
17.	Maharashtra	IITM Solapur (C-Band)
18.	Maharashtra	Veravali (C-Band)
19.	Maharashtra	Mumbai, Juhu (X-band)
20.	Maharashtra	Mumbai, Panvel (X-band)
21.	Maharashtra	Mumbai, Kalyan, Dombivli (X-band)
22.	Maharashtra	Mumbai, Vasai, Virar (X-band)
23.	Maharashtra	Mahabaleshwar (X-band)
24.	Meghalaya	Cherrapunji, ISRO (S-Band)
25.	Odisha	Gopalpur (S-Band)
26.	Odisha	Paradip (S-Band)
27.	Punjab	Patiala (S-Band)
28.	Rajasthan	Jaipur (C-Band)
29.	Tamil Nadu	Chennai (S-Band)
30.	Tamil Nadu	Karaikal (S-Band)
31.	Tamil Nadu	NIOT Chennai (X-Band)
32.	Telangana	Hyderabad (S-Band)
33.	Tripura	Agartala (S-Band)
34.	Uttarakhand	Lansdowne (X-Band)
35.	Uttarakhand	Mukteshwar (X-Band)
36.	Uttarakhand	Surkanda Devi (X-Band)
37.	Uttar Pradesh	Lucknow (S-Band)
38.	West Bengal	Kolkata (S-Band)
39.	Jammu & Kashmir	Banihal Top (X-Band)
40.	Jammu & Kashmir	Jammu (X-Band)
41.	Jammu & Kashmir	Srinagar (X-Band)
42.	Delhi	Aya Nagar (X-Band)
43.	Delhi	Palam (S-Band)
44.	Delhi	HQ Mausam Bhawan (C-Band)
45.	Ladakh	Leh (X-Band)
46.	Karnataka	Mangaluru (C-Band)
47.	Chhattisgarh	Raipur (C-Band)
