

GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION No. - 1628
ANSWERED ON 03/08/2023

RADAR SYSTEM IN KERALA

1628. Shri A. A. Rahim:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether Government is aware that there is no permanent radar system for weather observations in north Kerala and only temporary system is available in south Kerala:
- (b) whether Kerala has been demanding this since 2013, if so, the reason behind not allowing it; and
- (c) how old is the radar in Kochi and for how many days it was down in the last 3 years?

ANSWER

THE MINISTER OF EARTH SCIENCES
(SHRI KIREN RIJJU)

- (a) Yes Sir. It is to mention that presently two radars are functional in the State of Kerala. One S-band DWR (Departmental) functioning at Kochi and the second one is a C-band DWR functioning at Vikram Sarabhai Space Centre (VSSC) Thiruvananthapuram (non-departmental) for monitoring severe weather developments over Kerala.
- (b) To bring the entire State of Kerala, including the North Kerala under the radar coverage, procurement of 2 radars to be installed at Kozhikode (X-Band radar with observation range of 100Kms) and Mangalore (C-Band radar with observational range of 250 Kms) have been approved.
- (c) The radar at Kochi was commissioned on 12.07.2017. During the past three years DWR Kochi was non-operational for 26 days due to technical reasons. Details of the same are given in Annexure. In addition to that, the radar operation was suspended for about 5 days in 2023 for carrying out preventive maintenance.

ANNEXURE

DWR KOCHI number of days of Unserviceable for past 3 years

Year	Period of Unserviceable	Reason for Unserviceability	Rectification performed	No of Days of Unserviceable
2020 (June onwards)	19.06.2020 to 20.06.2020	UPS Power Supply failure	UPS control boards and connections serviced	1
	21.06.2020 to 22.06.2020	Test Unit error	Status voltage of LO unit was not available hence servicing carried out the LO unit and issue resolved.	1
	10.09.2020 to 11.09.2020	GSP Rack Simulator Card error	Carried out servicing of simulator control card	1
	28.11.2020 to 29.11.2020	Server Unmounting issue	Changed the RT workstation to another and configured it for running RC	1
2021	22.03.2021 to 23.03.2021	Test Unit error	Replaced the LO unit with RF power amplifier and splitter unit with external voltage divider status signal for RF detection.	1
	25.05.2021 to 26.05.2021	Workstation unmounted	System cleanup of all workstation done and proper script entered in Kernel files for automount	1
2022	12.02.2022 to 13.02.2022	RSP Restart error	DTP and DWELL count issue resolved by modifying scan strategy	1
	27.03.2022 to 28.03.2022	Reflectivity values are less	On among the us scanning was not working due to sense electronics control card issue. System running with 2 us pulse.	1
	27.11.2022 to 28.11.2022	F16 error in AZ and EL amplifiers	UPS Power supply issue resolved	1
	11.12.2022 to 12.12.2022	Transmitter error	LVPS cable issue resolved	1

2023 (Till 21st July)	02.01.2023 to 04.01.2023	F16 error in AZ and EL amplifiers	Resolved cable issue with Radome entry interrupt switch	2
	11.04.2023 to 21.04.2023	F14 error in elevation amplifier	Radar slip ring issue. Resolved by interchanging slip ring channels	12
	04.05.2023 to 05.05.2023	F14 error in elevation amplifier	Slip ring channel connector failure	1
	29.05.2023 to 30.05.2023	Noise signal in received signals	Resolved ARC DSP DDC Card issue	1
			Total days of unserviceable from June 2020 to July 2023	26
