

as per information provided by Andhra Pradesh, NTR SUJALA is being implemented as detailed below:—

- I Coverage of quality problem areas through community purification plants with Hub and Spoke model
 - (i) 207 chronic kidney disease affected habitations (areas) are programmed to be covered through community treatment plants (hub and spoke model) in Srikakulam and Prakasam Districts with an estimate cost of ₹ 22.59 crores.
 - (ii) Out of 10 Mother Plants (Clusters), so far 7 are completed in Srikakulam (Uddanam) and the balance 3 Mother Plants are at tender stage in Prakasam district.
- II The State Government has also decided to cover all problematic habitations (Quality Affected and Stressed) through water purification plants on hub and spoke model under NTR Sujala Pathakam. 103 clusters are identified to cover about 7787 (Quality Affected and Stressed) habitations with an amount of about ₹ 402.40 crores.

Cyclone warning centres in coastal States

21. SHRI SANJAY RAUT: Will the Minister of EARTH SCIENCES be pleased to state:

(a) whether Ministry has set up a Cyclone Warning Centres in coastal States of the country; and

(b) if so, the details thereof, and number of States likely to be benefited out of this centre?

THE MINISTER OF EARTH SCIENCES (DR. HARSH VARDHAN): (a) Yes Sir.

(b) At present, the cyclone warning set up of the India Meteorological Department (IMD) has three-tier system to cater to the needs of the maritime states. There are Area Cyclone Warning Centres (ACWCs) at Chennai, Mumbai and Kolkata and Cyclone Warning Centres (CWCs) at Visakhapatnam, Ahmedabad, Bhubaneswar and Thiruvananthapuram. The co-ordination of cyclone warning operations at the national level and international level is done by Cyclone Warning Division (CWD) at New Delhi. Since 2018 IMD in collaboration with Indian National Centre for Ocean Information Services (INCOIS), under MoES is providing joint IMD-INCOIS fisherman warning for entire Bay of Bengal and Arabian Sea.

The details of CWCs/ACWCs and their area of responsibility are given below.—

Area of Responsibility of ACWC/CWC

Centre	Sea area	# Coastal area	Maritime State
ACWC Kolkata,	Bay of Bengal	West Bengal, Andaman and Nicobar Islands	West Bengal and Andaman and Nicobar Islands
ACWC Chennai	-	Tamil Nadu and Pondicherry	Tamil Nadu and Puducherry
ACWC Mumbai	Arabian Sea	Maharashtra, Goa	Maharashtra, Goa
CWC Thiruvananthapuram	-	Kerala and Karnataka	Kerala, Karnataka and Lakshadweep
CWC Bhubaneswar	-	Odisha	Odisha
CWC Visakhapatnam	-	Andhra Pradesh	Andhra Pradesh
CWC Ahmedabad	-	Gujarat, Diu, Daman, Dadra and Nagar Haveli	Gujarat, Diu, Daman, Dadra and Nagar Haveli

Coastal strip of responsibility extends upto 75 km. from the coast line.

Proposal to buy aircraft for meteorological issues

22. SHRI RIPUN BORA: Will the Minister of EARTH SCIENCES be pleased to state:

(a) whether it is a fact that Government proposes to buy aircraft to study impact of air pollution on the meteorological issues of the country;

(b) if so, whether the special plane will cover entire weather forecast and pollution level across the country;

(c) the cost of the project and whether the airborne research will also control the air pollutants therein; and

(d) details of project and its project liability costs and the budget sanctioned thereof?

THE MINISTER OF EARTH SCIENCES (DR. HARSH VARDHAN): (a) Yes Sir. Ministry of Earth Sciences (MoES) proposes to buy an atmospheric research aircraft under the programme National Facility for Airborne Research (NFAR).

(b) This research aircraft will be utilised to undertake research in the areas of atmospheric aerosols, clouds, precipitation and their interactions as well as to study the atmospheric State parameters and trace gases. The data collected from the sophisticated scientific instrumentation on board the aircraft will be utilized to improve the weather prediction models in predicting different types of weather phenomena.