

## Drought

Telangana has historically been prone to drought conditions. Based on last 5 years data, severe drought conditions prevailed in Mahabubnagar, Nalgonda, and Ranga Reddy Districts, where rain fed farming is not viable, which would impact not only water resources but also have a cascading effect on other dependent sectors.

## Lightening:

Lightening is a sudden electrostatic discharge that occurs in association with matured cumulonimbus cloud, usually during thunder/hailstorms. The discharge that occurs between cloud and ground is known as thunderbolt which could cause damage to life and property.

## TSDPS Interventions

Telangana State Development Planning Society (TSDPS) was established by the Planning Department, Government of Telangana to takeup Disaster mitigation studies relating to "Rain fall - Run off and Flood forecasting, weather forecast to improve the early warning capabilities of state on natural disasters after AP Reorganization Act 2014. Weather data is being collected from 924 Automatic Weather Stations (AWS) located across the State, on hourly basis. It creates and archives a data base of weather information and it makes real-time analysis, 3-day weather forecast of coldwave, heatwave and heavy rainfall on real-time basis. TSDPS also disseminates rainfall and temperature data/geospatial maps at micro level (10 km resolution), that are useful for disaster management as well as management of agricultural/irrigation/ allied activities purpose to create 'climate-smart Telangana'.

The mandal/village level weather data is being used for Water resources Management and weather based crop insurance scheme (WBICIS) by the various insurance companies for the benefit of farmers. It carries out pilot projects and conducts research in emerging and critical areas of State's Economic and Social Sectors, and conduct studies for urban flooding and climate change impacts.

It analyses the weather data and generates vulnerability maps for State/District/Mandal/Village wise for all types of climatic change impacts and disasters. It also prepares Disaster Mitigation plans and integrates them with the regular planning process at State, District and Panchayat levels. TSDPS involves in Research & Development, Training & Capacity building and risk evaluation studies. The data being disseminated widely through its dedicated website: [tsdps.telangana.gov.in](http://tsdps.telangana.gov.in)

## Weather App

TSDPS is developing a mobile weather App (T-Weather) to know about the village level weather conditions from the nearest AWS for common public and officials use. In addition to local weather the App also displays hourly top 10 hottest places in the state which is helpful to District level officials to issue weather bulletins locally to take precautionary measures.

The Do's & Don'ts pamplets will be distributed for the common public in all the districts to combat summer heat and wide publicity shall be given for the benefit of common man and the short film on Heat wave also be played in all cinema halls/localTV network.

## Indian Meteorological Society Activities

The Indian Meteorological Society (IMS) is a non-profit organization. The society was established in 1956 with head quarter at New Delhi. It has several branches called 'Chapters' functioning at various places. As of now there are fifteen chapters spread all over India and 'IMS Hyderabad Chapter' is one among them. IMS publishes a quarterly magazine called "Yayu Mandal" which carries research articles in the field of meteorology and allied sciences.

The membership in the society is open to all professionals working in this field and can contact Chairman, IMS in this regard. This will be the good forum for the members to share their experiences in all related activities. For further details can visit Website <http://imetsociety.org>

## UNICEF

UNICEF works for world's most disadvantaged children. Across 190 countries and territories, UNICEF works for every child, everywhere, to build a better world for everyone. For more information about UNICEF and its work for children, visit [www.unicef.org](http://www.unicef.org).

## WORKSHOP ON

"Extreme Weather Events with Reference to Heat Wave over Telangana State"

Date:- 6<sup>th</sup> March, 2019

Venue:- Centre for Economic and Social Studies (CESS),  
Nizamia Observatory Campus, Begumpet, Hyderabad  
Telangana 500016



Organised by:

Revenue (DM) Dept.,  
TSDPS, IMD, IMS and UNICEF