New Initiatives

➢ **IMPACT BASED FORECAST**: Impact Based heavy rainfall forecast for the city of Vijayawada & neighborhood has been initiated from monsoon season 2020 on experimental basis.

➢ **EXTENDED RANGE FORECAST**: Current weather status and outlook for next two weeks for the state issued on every Thursday.

Aviation Services

Weather information is provided to the ATC and all Airlines at Vijayawada International Airport, Rajamundry Airport, Tirupati Airport and Kadapa Airports which include upper winds, temperatures, significant weather (SIG Wx) charts, Aerodrome Warnings, Terminal Aerodrome Forecasts, METARs and SIGMETs.

Agricultural Advisory Services

Agro-meteorological Advisory Unit was made operational from December, 2019 under GKMS Programme to extend meteorological services to the farming community in the state. This Unit also issues Bi-weekly Bi-Lingual Agro-meteorological and Agriculture Bulletins on Tuesday and Friday in coordination with State Agricultural University, AMFUs, DAMUS and KVKs. The Bulletin reflects the Significant past Weather phenomena prevailed and the forecast with Heavy Rainfall Warnings, if any. The Department of Agriculture, Andhra Pradesh provides the inputs regarding Crop condition along with the Pests & Diseases and remedies to be followed to prevent them. These bulletins/warnings are transmitted through social media via, Whatsapp, Facebook, Instagram, emails, AIR, Doordarshan for broadcast in local language for use of farmers and other user agencies.

Climatology

Climatological section at Hyderabad organizes the scrutiny and archival of past meteorological data and maintains the database for answering various weather related enquiries in both Telangana and Andhra Pradesh. This data have wide applications and are utilized for planning large-scale national development projects both by public and private.

CONTACT US

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Social Media Links

https://instagram/mc_amaravati/
https://twitter.com/AmaravatiMc
https://www.facebook.com/MC-Amaravati-IMD-100787794998444/
https://www.youtube.com/channel/UCMhKw9DfBAIcfpacLYVppCw

APPS for Mobile(Andriod/ios) Users

Mausam App : For Location specific Forecast & warnings.
Damini App : For Lightning alert
Meghdoot App: For Agro Advisory services

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Meteorological Centre, Amaravati

India Meteorological Department

Serving the Nation since 1875

HISTORY

The old observatory in Andhra Pradesh State was started in Hyderabad on 10th November 1891, in the Nizamiah Observatory Building located on the top of the ridge. Later, it was shifted to old Begumpet airport in 1926. The observatory was upgraded to 'Meteorological Centre' in 1973 to extend meteorological services to the state. After the bifurcation of Andhra Pradesh State into Andhra Pradesh and Telangana in 2014, need was felt that a new Meteorological Centre to be set up to cater weather services to the state of Andhra Pradesh and was started at Amaravati in between Vijayawada and Guntur, which was proposed as a new capital of Andhra Pradesh.

Meteorological Centre, Amaravati

Meteorological Centre, Amaravati was made functional in a temporary accommodation in the campus of SRM University, Andhra Pradesh from December, 2018. It has :

15 - Departmental Observatories.
5 - Part-time observatories,
2 - Pilot balloon observatories,
3 - Radiosonde/Rawin observatories (Visakhapatnam, Machilipatnam and kavali),
23 - Automatic Weather Stations,
65 - Automatic Rain Gauges,
2 - Doppler weather Radars located in Visakhapatnam and Machilipatnam.
195-Rain Gauge stations managed by the State government.

Observatories of Andhra Pradesh

Weather Observations at Amaravati

1. Synoptic Observations: Round the clock Surface weather observations are taken.
2. Radiation Observation: Automatic observation of Global, Diffused, Terrestrial, Direct (solar), Ultra Violet radiation.

Services of MC, Amaravati

Forecasting Tools & Techniques

- Surface and upper air data: Real-time surface and upper air data analysis for identification of synoptic scale systems.
- NWP Model: Various regional & global numerical weather prediction models are utilized for short range to medium range forecast.
  - WRF, UM: For short range forecast
  - GFS, GEFS & MME: For medium range forecast
  - MME(CFSV2): Extended range forecast.
- Radar: S-band Doppler weather radar, a powerful tool for Nowcast.
- Satellite: INSAT 3D, INSAT 3DR & HIMAWARI satellites are used for monitoring & forecast of weather systems.

Forecasting Services

- Bulletins for weather forecasting and warnings are issued daily 4 times for the next 7 days which also contains forecast/Warnings of Heavy Rainfall, Thunderstorm, Hail Storms for 13 districts of Andhra Pradesh state.
- District Probabilistic rainfall forecast: District wise probabilistic rainfall Forecast issued at 1300 hours IST.
- State Daily weather Report: Report comprising of weather over the state during past 24 hours, issued at 1330 hours IST.
- weekly weather summary is issued on every Thursday which contains summary of weather of the previous week (Thursday to Wednesday).
- Highway forecast: Forecast for expected weather conditions enroute the state / National highways of the state at 1500 hours IST.
- Special daily weather bulletin: During monsoon season and Cyclones special bulletins are issued to all concerned district and state authorities covering current monsoon / rainfall features and weather forecast & warning.
- Weather over Vijayawada city: A brief report of past month weather over Vijayawada city is uploaded on 01st date of succeeding month.
- Heat Wave warnings and alerts are issued during summer season.
- Press release / warnings / Alerts for severe weather: Press release / warnings alerts are issued for disastrous weather affecting the state and sent to all stake holders as well as media.
- The Forecasts are being disseminated through emails, internet website and various social media twitter, whatsapp, facebook, instagram, Doordarshan, AIR, community radios and other electronic media.