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November 22nd, 2020

Topic:- General Science and Technology from Himachal Pradesh

What is the news?

- The Indian Meteorological Office installed the first Doppler Weather Radar (DWR) in Himachal Pradesh?.

At which place in Himachal Pradesh?

- Kufri in Shimla

What is the purpose of DWR?

- To get more precise area-specific weather forecasts and warning for a particular place.

What is the Range of RADAR?

- The DWR will cover a Radial distance of 100km in all directions.

What are the benefits of DWR?

- It will help in forecasting purposes, especially for the short-range forecast (also called nowcasting).

What is Now Casting?

- Nowcasting is a weather forecasting on mesoscale (short scale) up to 2 hours as per World Meteorological Organization.

Two other Proposed Districts:-

- Himachal government is planning two more such radars to be installed in Mandi and Dalhousie, district Chamba.

What is the RADAR?

- Radio Detection and Ranging (RADAR), is a system which is based on the technique of Electromagnetism.
- Electromagnetism is used to detect the location and distance of an object from the point where the Radar is placed.
- Radar radiates energy into space and monitors the reflected signal from the object.

Example: Detecting an aircraft or the missile in the sky.

Where is the Doppler Effect used?

- To measure the range and location of the moving objects, the Doppler Effect is used.

Source: The Tribune (HP)

Topic:- Agriculture

What is the news?

- Himachal Pradesh government launched domestic Liquid Fertilizer for farmers and horticulturists.

Who is involved?

- It is a joint venture of Himachal Pradesh State Cooperative Marketing and Consumers Federation (HIMFED) and, Gujarat State Fertilizers and Chemicals Ltd. (GSFC), under Atmanirbhar Bharat Abhiyan.

Types of fertilizers introduce in Himachal:-

- Liquid Boronated Calcium Nitrate
- Calcium Nitrate
- Nutri Plus
- Ammonium Sulphate
- Boronated Calcium

Why Liquid fertilizer?

- Earlier, Liquid Fertilizers were imported from other countries. But Gujarat State Fertilizers and Chemicals Ltd. had made Bharat Atmanirbhar Bharat in this aspect.

What are Fertilizers?

- Fertilizers are both organic and inorganic compounds, which are used in fields and gardening to help crops, vegetables, fruits and flowers to grow healthy.
- They can be in solid and liquid form both, mixed with soil to increase its fertility and capacity to obtain a healthy outcome.
- Fertilizers are added to the soil as per its requirement. Under dose and overdose, both are not good.

Source: The Tribune (HP)

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