

# DAILY CURRENT AFFAIRS March 11<sup>th</sup> 2020

## 2. Micro-Irrigation hit by lack of Funds

Prelims Syllabus: Economics- Agriculture, Ignorance, Subsidy, Marketing

Mains Syllabus: GS-III Major crops cropping patterns in various parts of the country, different types of irrigation and irrigation systems storage, transport and marketing of agricultural produce and issues and related constraints; e-technology in the Aid of Farmers.

#### Why in News?

• The prevailing economic slowdown appears to have affected the implementation of the projects to provide drip and sprinkler implements to farmers in state of Telangana.

### **Highlights:**

For providing the drip and sprinkler implements to the targeted extent of land, an amount
of Rs 669 crore is required, including RS 270 crore contribution of the Centre and about
Rs 400 crore share of the State.

#### **Micro-irrigation:**

- Drip irrigation is a type of micro-irrigation system that has the potential to save water and nutrients by allowing water to drip slowly to the roots of plants, either from above the soil surface or buried below the surface.
- The goal is to place water directly into the root zone and minimize evaporation. Drip irrigation systems distribute water through a network of valves, pipes, tubing, and emitters.
- Depending on how well designed, installed, maintained, and operated it is, a drip
  irrigation system can be more efficient than other types of irrigation systems, such as
  surface irrigation or sprinkler irrigation.

### **Advantages:**

- Fertilizer and nutrient loss is minimized due to a localized application and reduced leaching.
- Water application efficiency is high if managed correctly. Field leveling is not necessary.
- Fields with irregular shapes are easily accommodated. Recycled non-potable water can be safely used.
- Moisture within the root zone can be maintained at field capacity. Soil erosion is lessened.
- Weed growth is lessened. Water distribution is highly uniform, controlled by the output of each nozzle.
- Labour cost is less than other irrigation methods.



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## **Disadvantages:**

- Initial cost can be more than overhead systems.
- The sun can affect the tubes used for drip irrigation, shortening their lifespan.
- If the water is not properly filtered and the equipment not properly maintained, it can result in clogging or bio clogging.
- Drip tape causes extra clean-up costs after harvest. Users need to plan for drip tape winding, disposal, recycling or reuse.
- In lighter soils subsurface drip may be unable to wet the soil surface for germination. Requires careful consideration of the installation depth.
- The PVC pipes often suffer from rodent damage, requiring replacement of the entire tube and increasing expenses.

