

Fast-changing Agricultural Scenario in India

IN the 21st Century, Indian agriculture and allied sectors are quickly adapting to the changes in innovations and technological upgradation. In many fields in agriculture, India is leading the face of new technology and innovations. Farmers are quickly adapting to the changing scenarios, otherwise they are pressured to do so to sustain in the field. With the majority of the rural economy depending on agriculture, Indian agriculture is experiencing a phenomenon change.

Pressure on the available agricultural land to meet the increasing demand for food is the primary reason for innovations and technological upgrades, which has brought better utilisation of degraded, saline and eroded land for alternative use into agriculture with integrated land development. With the increasing productivity, providing food security has contributed significantly to eradicate poverty in a developing nation like India.

Changes in technological intervention have brought positive impact on socio-economic in the rural area, in particular, tribal lives in India. The traditional wisdom of the farmer has been incorporated in many innovations that brought better management in natural resources as they are eco-friendly based on conservation and sustainable utilisation of available natural resources.

In this August issue case studies on irrigation using remote sensing, fuzzy control system and drip irrigation has been discussed. The precise management of irrigation saves 33.5% of water compared to the conventional operation which leads to the reduction in cost and drudgery. Land-reclamation of saline soil was successfully demonstrated using strawponics in garlic cultivation in the coastal region and quinoa cultivation in Gujarat.

Farmers are at the forefront applying many new interventions, following the suggestions given by the experts in their field and gradually changing the Indian traditional ways of cultivation. We need to encourage and appreciate the farmers as they have opened and accepted the challenges to bring higher productivity within their limited land resources.

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