कृषि एवं किसान कल्याण विभाग

DEPARTMENT OF

AGRICULTURE & FARMERS WELFARE

सत्यमेव जयते

Emerging Hi-Tech & Digital Agriculture Ecosystem

Budget Highlights

Delivery of Digital and Hi-Tech services to farmers

A scheme in *PPP mode* will be launched with the involvement of public sector research & extension institutions, private agri-tech players and stakeholders of agri-value chain,

Use of Kisan Drones

Use of 'Kisan Drones' will be promoted for crop assessment, digitization of land records, spraying of insecticides, and nutrients.

Suggestions & Feedback

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Implementation

- **Nodal officers** at the central and state ministries to coordinate with all stakeholders in implementation of scheme and create an enabling environment.

- Transparent IT Portal & Monitoring of schemes

- Continuous review of policy to make them business/user friendly

- Investment required in indigenous equipment and miniaturing system for small holder farmers

Guidelines & Regulations

- Fast tracking approvals of chemicals for spraying purpose

- Revision in GST rates (5% GST on sale of drones and 0% GST on services using agri drones).

- Rationalization of MIDH cost norms according to current price norms

PPP Model

- **Integration:** Industry and Government to define the nuances of the PPP model to implement digital agriculture initiatives.

- **Enabling Predictability**: PPP Model desired in seed traceability, climate adoption agriculture, traceability, tracking major commodity price volatility and integrated pest management

Suggestions & Feedback

Involving Stakeholders

- **Collaborative efforts ;** In order to provide Drone Pilot training along with agriculture best practices knowledge to Farmers, industry has requested GOI to associate industry with ICAR/SAUs/KVKs/FPOs

- Industry has also requested support of NABARD, NAFED, FIFA in connecting with FPOs to provide capacity building and increase service uptake.

- Strengthening of KVKs/ICAR/SAUs for skill development of farmers and demonstration of Hi-Tech technology including rural youth

Access to Data

- Sharing of digitised knowledge and records of government institutions (can be monetized)

- Government digitised data to be augmented with data of private players for better implementation of extension activities to the farmers

- Provide access to Agri stack, geo tagged cadastral maps with farmland ownership

- Data sharing mechanism between MPEDA, CAA & Dept of Fisheries to enable effective lending mechanisms to aqua formers

- Pre recorded extension videos in SD cards to be distributed to rural farmers

Land Digitization

- Creation of Drone Digital land bank and sharing of API's with industry to enable accurate digital services.

Infrastructure

- IoT based control, monitoring and data analytic system for cold chain.

Suggestions & Feedback

Credit & Lending

- Need to accelerate rural lending for farmers to have dispensable cash to avail smart agricultural services.

- Use of digitised land records by banking and financial institution for better decision making in lending capital

- Cold Storage should be included in priority sector lending by banking institutions

- Use of AI and ML in credit scoring, gauging risk etc. This will help lending institutions in designing financial instruments specifically for agriculture sector