

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE AND FARMERS WELFARE
DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE

LOK SABHA
UNSTARRED QUESTION NO. 5342
TO BE ANSWERED ON THE 05TH APRIL, 2022

High-TECH SERVICES IN AGRICULTURE

5342. SHRI KOTHA PRABHAKAR REDDY:
SHRIMATI VANGA GEETHA VISWANATH:
SHRI KANUMURU RAGHU RAMA KRISHNA RAJU:

Will the Minister of AGRICULTURE AND FARMERS WELFARE कृषि एवं किसान कल्याण मंत्री be pleased to state:

(a) Whether any steps have been/are being taken for delivery of digital and hi-tech services to farmers with involvement of public sector research and extension institutions along with private agri-tech players and stakeholders of agri-value chain, a scheme in PPP mode; and

(b) If so, the progress made thereunder, State-wise and if not, the reasons for not taking such steps till now?

ANSWER

MINISTER OF AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण मंत्री (SHRI NARENDRA SINGH TOMAR)

(a) & (b): Government has taken following steps to provide digital and hi-tech services which will open up opportunities for Private Entrepreneurs:

- i. The Department has constituted a high level Task Force, which is in the process of finalizing a report on India Digital Ecosystem of Agriculture (IDEA) which would lay down the architecture of Digital AgriStack with unique ID for farmers, and standards for interoperability between various data streams in the Agristack. This would open up possibilities for developing services and solutions by Private Entrepreneurs.
- ii. Provisions are being made under Agriculture Infrastructure Fund (AIF) to fund private agritech players.
- iii. Government of India has made an announcement in the Union Budget 2022 regarding the setting up of a fund routed through NABARD under a co-investment model to finance startups in the agritech space.

- iv. Government is providing financial assistance through Sub Mission on Agricultural (SMAM) to Farm Machinery Training and Testing Institutes (FMTTIs), Indian Council for agricultural Research (ICAR) Institutes, Krishi Vigyan Kendra (KVK), Farmer Producer Organizations (FPOs) and State Agricultural Universities (SAUs) for drone demonstrations and for establishment/upgrading the Custom Hiring Centres (CHCs)/ Hi-Tech Hub for providing agricultural services by using drone technology. Drone service providers can also avail benefits of Agriculture Infrastructure Fund.
- v. Rashtriya Krishi Vikas Yojna (RKVY) is a central Sponsored scheme. State can implement projects under RKVY in PPP mode by approving such projects by the State Level Sanctioning Committee (SLSC) of the state. List of projects approved by some states in PPP mode under RKVY is given at Annexure –I.
- vi. A component called “Innovation and Agri-Entrepreneurship Development” has been launched under Rashtriya Krishi Vikas Yojana (RKVY-RAFTAAR) in 2018-19 with the objective of promoting innovation and agri-entrepreneurship by providing financial support and nurturing the incubation ecosystem. Under this programme, start-ups are encouraged to use innovative technologies to resolve challenges faced in agriculture and allied sectors. A total of 799 start-ups have been selected in various areas of agriculture and allied sectors under this programme for providing financial support through Knowledge Partners and Agri Business Incubators appointed by government for implementation of this programme. List of KPs and R-ABIs is given at annexure-II.
- vii. The Indian Council of Agriculture Research (ICAR) has been supporting Agri-based startups under the project called National Agriculture Innovation Fund (NAIF) initiated in year 2016-2017. It has two components viz. I. Innovation Fund; II. Incubation Fund and National Coordinating Unit (NCU):
 - a. Component I: 10 Zonal Technology Management Units and 89 Institute Technology Management Units (ITMUs) established in 99 ICAR institutes provide a single-window mechanism to manage innovations, showcase intellectual assets, and pursue matters related to intellectual property (IP) management and transfer/commercialization of technologies in these institutes.

b. Component II: Agri-business Incubator Centres (ABICs) are set up to speed up the delivery of the new technologies to stake holders. The ABICs are the nodal point to provide the desired link for Agriculture Research & Development (R&D) Institutions for incubation/ commercialization of the validated technologies. So far, 50 Agri-Business Incubation Centers have been established and are operational in the ICAR network under the NAIF scheme. List of ABICs under ICAR is given at Annexure-III.

Annexure -I

List of PPPIAD Projects approved under RKVY during 2015-16 to 2021-22 as on 07.03.2022						
Sr No	Name of the State	ProjectID	Commencement	Project Name	Total Cost (in crore)	
1	Gujarat	GJ/RKVY-HORT/2018/700	2018-19	A project on creating wealth from waste under PPP mode	1.75	
2		GJ/RKVY-CROP/2020/857	2020-21	PPPIAD- for Groundnut farmers of Saurashtra region of Gujarat	31.15	
3	Karnataka	KA/RKVY-HORT2019/1003	2019-20	Implementation of PPP-IHD	7.00	
4		KA/RKVY-HORT/2019/1007	2018-19	Integrated Development of Horticulture under PPP-IHD	3.00	
5		KA/RKVY-OTHR/2019/1023	2019-20	Public Private Partnership for Integrated Agriculture Development (PPPIAD)	15.00	
6		KA/RKVY-HORT/2020/1153	2020-21	Implementation of PPP IHD	2.00	
7		KA/RKVY-OTHR2020/1185	2020-21	Public Private Partnership for Integrated Agriculture Development (PPPIAD)	9.50	
8		KA/RKVY-HORT/2016/750	2016-17	Implementation of PPP-IHD (Public Private Partnership-Integrated Horticulture Development) Project	16.36	
9		KA/RKVY-OTHR/2017/838	2017-18	PPP model for production of Bio-control agents	2.00	
10		KA/RKVY-MRKT/2017/934	2017-18	PPPIAD & formation of FPO	6.00	
11		KA/RKVY-OTHR/2018/993	2018-19	Public Private Partnership for Integrated Agriculture Development (PPPIAD)	5.37	
12		Maharashtra	MH/RKVY-HORT/2015/395	2015-16	Financial Assistance for hiring of machinery for viticulture management (MRDBS) - Grapes (PPP-IAD) 2015-16	14.41

13		MH/RKVY-CROP/2015/409	2015-16	Rice (Saguna Bagh - Karjat) PPP-IAD 2015-16	2.02
14		MH/RKVY-HORT/2015/419	2015-16	Vegetable (Kay bee Exports) PPP-IAD 2015-16	1.96
15		MH/RKVY-HORT/2015/420	2015-16	White Onion Project (Jain Irrigation) PPP-IAD 2015-16	0.16
16		MH/RKVY-HORT/2015/423	2015-16	Vegetable (Akash Agri Solutions) PPP-IAD 2015-16	6.14
17		MH/RKVY-HORT/2015/427	2015-16	Onion Seed Production (East West Seed India) PPP-IAD 2015-16	0.45
18		MH/RKVY-CROP/2015/433	2015-16	Improving lives of Cotton Growing farmers in Vidarbha, (AFPRO, BCI) PPP-IAD 2015-16	0.42
19		MH/RKVY-CROP/2015/434	2015-16	Collaborative Project for Cotton Mechanization for state of Maharashtra (John Deere) PPP-IAD 2015-16	0.01
20		MH/RKVY-DDEV/2020/645	2020-21	Financial assistance under the scheme of PPP-AID-RKVY-RAFTAAR scheme Expansion of dairy unit and other allied items (Marathwada Agro Process Farmer Producer Company)	7.26
21		MH/RKVY-DDEV/2020/646	2020-21	Financial assistance under the scheme of RKVY (PPP-IAD)for expansion & Modernization of existing dairy unit and other allied items	11.83
22	Manipur	MN/RKVY-FISH/2021/300	2020-21	Cage Culture in open waters of Khuga Dam reservoirs @Rs. 1.60 lakhs/cage for 34 nos. of cages under PPP model.	0.54
23	Odisha	OR/RKVY-HORT/2018/819	2017-18	Establishment of Centre of Excellence in Horticulture on Organic Farming in PPP mode	7.03

Note: Based on the information uploaded on RDMIS of RKVY Portal by the State Governments.

Annexure-II

List of Knowledge Partners (KPs) and RKVY-RAFTAAR Agribusiness Incubators (R-ABIs)

Knowledge Partners (KPs):

- 1) National Institute of Agricultural Extension Management (MANAGE), Hyderabad.
- 2) *National Institute of Agricultural Marketing*(NIAM) Jaipur.
- 3) *Indian Agricultural Research Institute* (IARI) Pusa, New Delhi.
- 4) University of Agriculture Science , Dharwad, Karnataka.
- 5) Assam Agriculture University, Jorhat, Assam.

RKVY-RAFTAAR Agribusiness Incubators (R-ABIs)

- 1) Chaudhary Charan Singh University, Hisar, Haryana
- 2) CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur, Himachal Pradesh
- 3) IIT-BHU, Varanasi, Uttar Pradesh
- 4) Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh
- 5) ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly, Uttar Pradesh
- 6) Punjab Agricultural University, Ludhiana, Punjab
- 7) Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh
- 8) Sher-e-Kashmir University of Agricultural Sciences and Technology, Jammu
- 9) IIM, Kashipur, Uttarakhand
- 10)Kerala Agricultural University, Thrissur, Kerala
- 11)ICAR-Indian Institute of Millets Research, Hyderabad, Telangana
- 12)Tamil Nadu Agricultural University (TNAU), Coimbatore, Tamil Nadu
- 13)Agri innovation and entrepreneurship cell, ANGRAU, Andhra Pradesh
- 14)National Rice Research Institute, Cuttack, Odisha
- 15)S K N Agriculture University, Jobner, Rajasthan
- 16)Indian Institute of Technology Kharagpur, West Bengal
- 17)Bihar Agricultural University, Bhagalpur, Bihar
- 18)Anand Agricultural University, Anand, Gujarat
- 19)ICAR-Central Institute for Research on Cotton Technology, Mumbai, Maharashtra
- 20)Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra
- 21)National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI), Bengaluru, Karnataka
- 22)College of Fisheries, Lembucherra, Tripura
- 23)Department of Veterinary Medicine College of Veterinary Sciences &Animal Husbandry, Aizawl, Mizoram
- 24)College of Horticulture & Forestry, Pasighat, Arunachal Pradesh

Annexure-III

List of 50 Agri-Business Incubators Network under National Agriculture Innovation Fund (NAIF) scheme of ICAR

S No	Institute Name
1.	ICAR-Central Avian Research Institute, Izatnagar, Bareilly
2.	ICAR-Central Institute of Agricultural Engineering, Bhopal
3.	ICAR-Central Institute of Brackishwater Aquaculture, Chennai
4.	ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar
5.	ICAR-Central Institute of Fisheries Education, Mumbai
6.	ICAR-Central Institute of Fisheries Technology, Cochin
7.	ICAR-Central Institute of Post-harvest Engineering & Technology, Ludhiana
8.	ICAR-Central Institute for Research on Cotton Technology, Mumbai
9.	ICAR-Central Plantation Crops Research Institute, Kasaragod
10.	ICAR-Central Potato Research Institute, Shimla
11.	ICAR-Indian Agricultural Research Institute, New Delhi
12.	ICAR -Research Complex for NEH Region, Umiam
13.	ICAR-National Rice Research Institute, Cuttack
14.	ICAR-Indian Institute of Horticultural Research, Bengaluru
15.	ICAR-Indian Institute of Millets Research, Hyderabad
16.	ICAR-Indian Institute of Oilseeds Research, Hyderabad
17.	ICAR-Indian Institute of Spices Research, Kozhikode
18.	ICAR-Indian Institute of Vegetable Research, Varanasi
19.	ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly
20.	ICAR-National Academy of Agricultural Research Management, Hyderabad
21.	ICAR-National Dairy Research Institute, Karnal
22.	ICAR-National Institute of Natural Fiber Engineering and Technology, Kolkata
23.	ICAR-National Research Centre on Meat, Hyderabad
24.	ICAR-National Research Centre on Pig, Guwahati
25.	ICAR-Central Tuber Crops Research Institute, Thiruvananthapuram
26.	ICAR-Sugarcane Breeding Institute, Coimbatore
27.	ICAR-Central Citrus Research Institute, Nagpur
28.	ICAR-Central Institute for Subtropical Horticulture, Lucknow
29.	ICAR-Central Sheep & Wool Research Institute, Avikanagar
30.	ICAR-Indian Institute of Soybean Research, Indore
31.	ICAR-National Institute of Veterinary Epidemiology and Disease Informatics, Bengaluru
32.	ICAR-Indian Institute of Natural Resins and Gums, Ranchi
33.	ICAR-Indian Institute of Agricultural Biotechnology, Ranchi
34.	ICAR-National Research Centre for Integrated Pest Management, New Delhi
35.	ICAR-National Research Centre for Banana, Tiruchirapalli
36.	ICAR-Central Coastal Agricultural Research Institute, Goa
37.	ICAR-Indian Institute of Pulses Research, Kanpur
38.	ICAR-Central Arid Zone Research Institute, Jodhpur
39.	ICAR-Directorate of Rapeseed Mustard Research, Bharatpur
40.	ICAR-Directorate of Groundnut Research, Junagadh
41.	ICAR-Indian Institute of Maize Research, Ludhiana
42.	ICAR-Directorate of Onion and Garlic Research, Pune
43.	ICAR-Directorate of Cashew Research, Puttur
44.	ICAR-Directorate of Medicinal and Aromatic Plants Research, Anand
45.	ICAR-Indian Institute of Farming Systems Research, Modipuram
46.	ICAR-National Research Centre for Grapes, Pune
47.	ICAR-Research Complex for Eastern Region, Patna
48.	ICAR-Indian Institute of Sugarcane Research, Lucknow
49.	ICAR-Indian Grassland & Fodder Research Institute, Jhansi
50.	International Crops Research Institute for the Semi-arid Tropics (ICRISAT), Hyderabad
