

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

**LOK SABHA**  
**UNSTARRED QUESTION NO. 1420**  
TO BE ANSWERED ON THE 12<sup>TH</sup> DECEMBER 2023

**PROMOTING SMART FARMING**

1420. SHRIMATI KESHARI DEVI PATEL

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

- (a) whether the Government is promoting smart farming methods through the use of technology and innovation in the agriculture sector in the Country and if so, the details thereof;
- (b) the details of funds sanctioned, allocated and utilized so far in the country, State/UT-wise including the State of Uttar Pradesh;
- (c) the details of the achievements made so far owing to such methods in the country; and
- (d) whether the Government has set any target in this regard in the country and if so, the details thereof, State/ UT-wise?

**ANSWER**

MINISTER OF AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण मंत्री

(SHRI ARJUN MUNDA)

(a) to (d): The adoption of modern and smart farming technologies by the farmers depends on various factors such as socioeconomic conditions, geographical conditions, crop grown, irrigation facilities etc. However, the Government of India supports and facilitates the State Governments to promote agriculture throughout the country and infusing modern and smart farming technologies into the agriculture sector. The use of modern machines including kisan drones is promoted under Sub-Mission on Agricultural Mechanization. Under NeGPA program, funding is given to State Governments for Digital Agriculture Projects using emerging technologies like Artificial Intelligence, and Machine Learning (AI/ML), Internet of Things (IOT), Blockchain etc. 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. The funds are released to the States based on their proposals. The details of State-wise funds released under SMAM and achievements including Uttar Pradesh so far are given in Annexure-I and details of projects sanctioned under NeGPA during Financial Year 2020-21 to 2023-24 are given in Annexure-II.

## Annexure-I

**State-wise funds released to the States and achievements since 2014-15 to  
2023-24 under Sub-Mission on Agricultural Mechanization**

<b>State</b>	<b>Funds Released (Rs. in Crores)</b>	<b>Number of Agricultural machinery distributed on subsidy</b>	<b>Total Number of Custom Hiring Centres/Hi-Tech Hubs and Farm Machinery Banks established</b>
Andhra Pradesh	808.72	251514	10598
Arunachal Pradesh	55.49	38186	13
Assam	59.46	1034	593
Bihar	94.93	28559	1035
Chhattisgarh	244.18	97200	2509
Gujarat	70.6	27240	234
Haryana	258.14	24870	2313
Himachal	152.53	42728	53
Jammu & Kashmir	51.64	14719	333
Jharkhand	24.69	0	527
Karnataka	853.86	186278	790
Kerala	250.75	77709	1357
Madhya Pradesh	385.06	213316	1446
Maharashtra	536.43	97387	1382
Manipur	108.14	18682	768
Meghalaya	8.84	2457	8
Mizoram	37.54	3992	274
Nagaland	184.64	17616	506
Odisha	297.49	49397	1738
Punjab	111.43	12666	1256
Rajasthan	108.6	25846	1363
Sikkim	31.5	5599	52
Tamil Nadu	548.89	65682	3389
Telangana	40.67	28954	205
Tripura	161.07	42143	584
Uttar Pradesh	504.37	156462	8644
Uttarakhand	290.68	35691	2093
West Bengal	72.98	7768	497
D&D Nagar Haveli	1.1	89	0
Puducherry	9.75	621	0
Ladhakh	1.03	1314	0
	<b>6365.2</b>	<b>157571</b>	<b>44573</b>

**Annexure-II**

**Projects approved to the States/UTs from Financial Year 2020-21 to 2023-24 under NeGPA**

<b>Sr. No.</b>	<b>State/UT</b>	<b>Project Sanctioning Year</b>	<b>Project Name</b>	<b>Central share Released (Rs. in Lakhs)</b>
1	Tripura	2022-23	Centralized farmer database, Direct benefit transfer, Precision farming, Integrated Information Ecosystem, Use of AI/ ML and Blockchain technologies, Capacity Building of Employees, Digital Soil Health Card App, SSO Integrated Platform, Farmer Producer Organization (FPO) Portal etc	189
2	Punjab	2020-21	Development of Crop and Soil Digital Algorithms for Crop Growth Monitoring, Crop Yield and Soil Quality and Precision irrigation in major cropping systems	52.434
		2021-22	Estimation of Ground water draft and water budgeting	51.297
		2023-24	Implementation of National e-Governance Plan in Punjab	
3	Uttar Pradesh	2020-21	(i)Unmanned Aerial Vehicle for Agriculture Applications, (ii) Hand Held Tool based Soil Health Monitoring Integrated system and (iii) Automated Fire Alert System for Crop Residue Burning in U.P.	120.08
		2023-24	Pilot on Digital Crop Survey	1040.25
4	Uttarakhand	2021-22	1.computerize reporting of Agricultural Statistics Land Use Statistics and Area under different crops right from village level to State level	56.89

			2. for designing, development, installation and commissioning of the smart agriculture platform using GIS, Remote Sensing, AI and IoT	
5	Assam	2020-21	e-project on ML based Crop Health Check up for paddy crops.	134.415
		2023-24	Pilot on Digital Crop Survey	128.07
6	Pondicherry	2022-23	Project proposal for setup of Intelligent Agriculture Advisory System(i-AAS), Robotic Control Tissue culture (RCTC) and real time irrigation management system(RIMS)	40
7	Nagaland	2021-22	Soil & Water Resource Management, Meteorological Analysis & Forecasting System using Remote Sensing, GIS mapping, Drone and Emerging Technologies under NeGPA	452
8	Bihar	2020-21	Digital Package of Practices for Major Crops and Automation Technique in Irrigation In State Seed Multiplication Farms	353.56
9	Himachal Pradesh	2022-23	Project proposal for setup of ICT Infrastructure Requirements in the Department of Agriculture	297
10	Haryana	2021-22	Implementation of Emerging Technologies in Agriculture Sector in Haryana	126.98
11	Meghalaya	2020-21	Development of web and mobile based "Crop Pest Surveillance and Advisory Project (CROPSAP)	62.88
		2021-22	Regarding creation of farmers database	8.26
12	Odisha	2020-21	Creation of Farmer Database	178.39
		2021-22	Phase II of Krushak database	41.26
		2023-24	Pilot on Digital Crop Survey	42.30

13	Sikkim	2021-22	Sikkim Agriculture Resource and Management System (ARMS)	156.55
		2023-24	Precision farming in Sikkim	157.08
14	Telangana	2020-21	(i)Crop Monitoring(ii)Automated irrigation Systems(iii) Fertilizer Calculation (iv)Automated Farm Operation (v)Traceability from	186
		2023-24	Pilot on Digital Crop Survey	45
15	Arunachal Pradesh	2020-21	Resilient Supply Chain for identified Agricultural Crops Leveraging Digitization	81
		2021-22	1.Developing a resilient Agriculture /Farm Produce Supply Chain System Leveraging Digitalization in Arunachal Pradesh 2. Development of Smart Pest Surveillance System cum Geo Spatial aided Agricultural Information System	67.5
16	Andhra Pradesh	2020-21	Unified Digital Programme (UDP) for Agriculture	425.7
		2021-22	Implementation of Phase-II "Unified Digital Platform app to operate RythuBhrosaKendralu (RBKs)"	666.9
17	Madhya Pradesh	2020-21	(i)Precision Farming and(ii)Ground waterAvailability	190.46
		2023-24	1.To operate and Maintain 'e-KrishiYantraAnudan Portal' (Online Subsidy Disbursement System in E-Rupi Mode) 2. Pilot on Digital Crop Survey	
18	Tamilnadu	2021-22	creation of Unified Farmers Database and building layers or solutions over the Farmers Database	160.7135
		2023-24	1.Geo-referencing of 8026 villages and Development of Farmers' database 2. Pilot on Digital Crop Survey	761.4

19	Mizoram	2021-22	Geospatial Analytics & Decision Support for agriculture Development in Mizoram	36.08
20	Gujarat	2023-24	1.Revamping of existing iKhedut Portal 2. Pilot on Digital Crop Survey	117
21	West Bengal	2023-24	Development of Digital Ecosystem for Crop Mapping, Crop surveillance, Crop Yield & Production Estimation in west Bengal	56.72
22	Kerala	2023-24	Pilot on Digital Crop Survey	45.52

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