

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

DEMAND NO. 2

Department of Agricultural Research and Education*(In ₹ crores)*

	Actual 2022-2023			Budget 2023-2024			Revised 2023-2024			Budget 2024-2025		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
Gross	8578.15	...	8578.15	9493.59	10.41	9504.00	9866.64	9.96	9876.60	9934.59	6.50	9941.09
Recoveries	-178.43	...	-178.43	...	...	...	...	...	...	...	...	...
Receipts	...	...	...	...	...	...	...	...	...	...	...	...
Net	8399.72	...	8399.72	9493.59	10.41	9504.00	9866.64	9.96	9876.60	9934.59	6.50	9941.09
A. The Budget allocations, net of recoveries, are given below:												
CENTRE'S EXPENDITURE												
Establishment Expenditure of the Centre												
1. Secretariat	40.52	...	40.52	33.30	10.41	43.71	43.92	9.96	53.88	51.64	6.50	58.14
Central Sector Schemes/Projects												
2. Agricultural Extension	243.59	...	243.59	327.00	...	327.00	250.00	...	250.00	...	...	...
3. Agricultural Engineering	48.29	...	48.29	65.00	...	65.00	70.09	...	70.09	...	...	...
Management of Natural Resources												
4. Natural Resource Management Institutes including Agro Forestry Research	144.77	...	144.77	240.00	...	240.00	239.98	...	239.98	...	...	...
5. Climate Resilient Agriculture Initiative	40.87	...	40.87	...	...	...	...	...	...	...	...	...
Total-Management of Natural Resources	185.64	...	185.64	240.00	...	240.00	239.98	...	239.98	...	...	...
Crop Sciences												
6. Crop Science	525.47	...	525.47	714.41	...	714.41	962.78	...	962.78	...	...	...
7. Horticultural Science	157.49	...	157.49	212.00	...	212.00	217.45	...	217.45	...	...	...
8. National Agricultural Science Fund	35.67	...	35.67	...	...	...	...	...	...	...	...	...
Total-Crop Sciences	718.63	...	718.63	926.41	...	926.41	1180.23	...	1180.23	...	...	...
Animal Sciences												
9. Animal Science	223.97	...	223.97	300.00	...	300.00	306.72	...	306.72	...	...	...
10. Fisheries Science	118.88	...	118.88	150.00	...	150.00	150.00	...	150.00	...	...	...
Total-Animal Sciences	342.85	...	342.85	450.00	...	450.00	456.72	...	456.72	...	...	...
Agricultural Education												
11. Agricultural Universities and Institutions	263.77	...	263.77	322.74	...	322.74	322.74	...	322.74
12. Economic Statistics and Management	24.38	...	24.38

(In ₹ crores)

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	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
13. National Agricultural Higher Education Project (EAP)	166.20	...	166.20	92.26	...	92.26	54.60	...	54.60	...	...	...
Total-Agricultural Education	454.35	...	454.35	415.00	...	415.00	377.34	...	377.34	...	...	...
14. Strengthening of Krishi Vigyan Kendras (KVKs)	...	...	...	...	...	...	...	...	...	234.89	...	234.89
15. Agricultural Production and Post-Production Mechanization Augmented with Innovative Technologies for Sustainable Agriculture Development	...	...	...	...	...	...	...	...	...	91.24	...	91.24
16. Natural Resource Management	...	...	...	...	...	...	...	...	...	252.16	...	252.16
17. Crop Science for Food and Nutritional Security	...	...	...	...	...	...	...	...	...	930.22	...	930.22
18. Technology based support in improvement and management of horticulture crops towards enhanced and sustainable productivity for nutritional security (Horticultural Science)	...	...	...	...	...	...	...	...	...	257.07	...	257.07
19. Research, Education and Technology Development for Sustainable Livestock Health and Production towards Nutritional Security	...	...	...	...	...	...	...	...	...	415.15	...	415.15
20. Fisheries and Aquaculture for Sustainable Development	...	...	...	...	...	...	...	...	...	200.92	...	200.92
21. Strengthening Agricultural Education, Management & Social Sciences	...	...	...	...	...	...	...	...	...	398.74	...	398.74
Total-Central Sector Schemes/Projects	1993.35	...	1993.35	2423.41	...	2423.41	2574.36	...	2574.36	2780.39	...	2780.39
Other Central Sector Expenditure												
Autonomous Bodies												
22. ICAR Headquarters	5934.27	...	5934.27	6384.59	...	6384.59	6576.49	...	6576.49	6378.70	...	6378.70
23. Central Agricultural Universities	608.88	...	608.88	651.53	...	651.53	671.11	...	671.11	723.55	...	723.55
24. National Academy of Agricultural Sciences	1.13	...	1.13	0.76	...	0.76	0.76	...	0.76	0.31	...	0.31
Total-Autonomous Bodies	6544.28	...	6544.28	7036.88	...	7036.88	7248.36	...	7248.36	7102.56	...	7102.56
Others												
25. Actual Recoveries	-178.43	...	-178.43	...	...	...	...	...	...	...	...	...
Total-Other Central Sector Expenditure	6365.85	...	6365.85	7036.88	...	7036.88	7248.36	...	7248.36	7102.56	...	7102.56
Grand Total	8399.72	...	8399.72	9493.59	10.41	9504.00	9866.64	9.96	9876.60	9934.59	6.50	9941.09
B. Developmental Heads												
Economic Services												
1. Agricultural Research and Education	8366.54	...	8366.54	8941.93	...	8941.93	9281.38	...	9281.38	9303.22	...	9303.22
2. Secretariat-Economic Services	33.18	...	33.18	25.87	...	25.87	36.32	...	36.32	43.98	...	43.98
3. Capital Outlay on Other General Economic Services	...	...	...	...	10.41	10.41	...	9.96	9.96	...	6.50	6.50
Total-Economic Services	8399.72	...	8399.72	8967.80	10.41	8978.21	9317.70	9.96	9327.66	9347.20	6.50	9353.70
Others												

(In ₹ crores)

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	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
4. North Eastern Areas	...	...	...	525.79	...	525.79	548.94	...	548.94	587.39	...	587.39
Total-Others	...	...	...	525.79	...	525.79	548.94	...	548.94	587.39	...	587.39
Grand Total	8399.72	...	8399.72	9493.59	10.41	9504.00	9866.64	9.96	9876.60	9934.59	6.50	9941.09
	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
C. Investment in Public Enterprises												
1. Agrinnovate India Limited	...	14.64	14.64	...	2.87	2.87	...	16.00	16.00	...	20.00	20.00
Total	...	14.64	14.64	...	2.87	2.87	...	16.00	16.00	...	20.00	20.00

1. **Secretariat:** The provision is for the expenditure on salary and establishment expenditure of Department and Agricultural Scientists Recruitment Board(ASRB). ASRB is an attached office of DARE.

2. **Agricultural Extension:** The provision is for the activities to reach out to the farmers at grass root level through Krishi Vigyan Kendras to disseminate and refine frontline agricultural technologies. It includes training of farmers and extension personnel on local technologies, distribution of seed, planting materials, testing of soil and water samples.

3. **Agricultural Engineering:** The provision is for research, development and refinement of farm equipment, process and value addition protocols.

4. **Natural Resource Management Institutes including Agro Forestry Research:** The provision is for research to address low farm productivity and profitability, land degradation, low water productivity, soil health deterioration and low nutrient use efficiency, deterioration in ecosystem services, abiotic stresses, etc. It is necessary to encounter deteriorating natural resource base for long term sustainability.

5. **Climate Resilient Agriculture Initiative:** The provision is to conduct strategic research and technology demonstration to enhance resilience of Indian agriculture to climate change and climate vulnerability. The research on adaptation and mitigation covers crops, livestock, fisheries and natural resource management. This scheme will be merged with Natural Resource Management Institutes including Agro Forestry Research scheme with effect from financial year 2023-24.

6. **Crop Science:** Research provision is to develop trait- specific high yielding field crop varieties/hybrids having tolerance to pest and diseases, besides various abiotic stresses. The quality attributes are also given due importance with no yield penalty. The All India Coordinated Research Project (AICRPs)/Network Research Projects with active collaboration with State Agricultural Universities (SAUs) are

engaged in the development of improved crop varieties/ hybrids, cost-effective production and environment-friendly protection technologies in different agro-climatic regions.

7. **Horticultural Science:** The provision is to address thrust areas of enrichment of horticultural genetic resources, development of new cultivation with resistance mechanism to biotic and abiotic stresses, appropriate production technology and health management system of horticultural and vegetable crops.

8. **National Agricultural Science Fund:** Supports basic and strategic research in agriculture to address the prioritized research problems. This scheme will be merged under non scheme budget with effect from 2023-24.

9. **Animal Science:** The provision is to develop new technologies to support production enhancement, profitability, competitiveness and sustainability of livestock and poultry sector for food and nutritional security. It will facilitate need based priority research in livestock and poultry sector in on-going and new emerging areas to support productivity increase, thereby reducing the gap between potential and actual yield.

10. **Fisheries Science:** The provision is to implement research and academic programmes in fisheries and aquaculture. It also provides technical, training, analytical, advisory support and consultancy services in the field of resources assessment and management, standardization of aquaculture hatchery and grow-out culture technologies, responsible fishing system and species diversification and utilization of inland saline soils for aquaculture, fish health monitoring, etc.

11. **Agricultural Universities and Institutions:** The provision will provide financial support to all the agricultural universities in the country comprising State Agricultural Universities (SAUs), Deemed Universities (DUs), and Central Universities (CUs) with Agriculture Faculty. The scheme is also responsible for maintenance and improvement of standard of agricultural education through: (i) accreditation of educational institutions, (ii) providing International/national fellowships both at post and undergraduate levels, (iii)

organization of training and capacity building programmes for the scientists/faculty of National Agricultural Research System in cutting-edge areas.

13. **National Agricultural Higher Education Project (EAP):** It is an externally aided project funded by World Bank and the Government. The provision is for the externally aided component of the National Agricultural Higher Education Project (NAHEP) which aims to develop resources and mechanism for supporting infrastructure, faculty and student advancement, providing means for better governance and management of agricultural universities, so that a holistic model can be developed to raise the standard of current agricultural education system that provides more jobs and is entrepreneurship oriented on par with global agricultural standards.

14. **Strengthening of Krishi Vigyan Kendras (KVKs):** The provision is for the activities to reach out to the farmers at grass root level through Krishi Vigyan Kendras to demonstrate disseminate and refine front-line agricultural technologies. It includes demonstration of technologies, training of farmers and extension personnel on local technologies, distribution of seed, planting materials, testing of soil and water samples etc.

15. **Agricultural Production and Post-Production Mechanization Augmented with Innovative Technologies for Sustainable Agriculture Development:** The provision is for research, development and refinement of farm equipment, process and value addition protocols.

16. **Natural Resource Management:** The provision is for conducting research to address low farm productivity and profitability, land degradation, low water productivity, soil health deterioration and low nutrient use efficiency, deterioration in ecosystem services, abiotic stresses, etc. It is necessary to encounter deteriorating natural resource base for long-term sustainability of agricultural development.

17. **Crop Science for Food and Nutritional Security:** Research provision is to develop trait-specific high yielding field crop varieties/hybrids having tolerance to pest and diseases and bio-fortification, besides various abiotic stresses. The quality attributes are also given due importance with no yield penalty. The All India Coordinated Research Project (AICRPs)/Network Research Projects with active collaboration with State Agricultural Universities (SAUs) are engaged in the development of improved crop varieties/ hybrids, cost-effective production and environment-friendly protection technologies in different agro-climatic regions.

18. **Technology based support in improvement and management of horticulture crops towards enhanced and sustainable productivity for nutritional security (Horticultural Science):** The provision is to address thrust areas of enrichment of horticultural genetic resources, development of new cultivation with resistance mechanism to biotic and abiotic stresses, appropriate production technology and health management system of horticultural and vegetable crops.

19. **Research, Education and Technology Development for Sustainable Livestock Health and Production towards Nutritional Security:** The provision is to develop new technologies to support production enhancement, profitability, competitiveness and sustainability of livestock and poultry sector for food and nutritional security. It will facilitate need based priority research in livestock and poultry sector in on-going and new emerging areas to support productivity increase, thereby reducing the gap between potential and actual yield.

20. **Fisheries and Aquaculture for Sustainable Development:** The provision is to implement research and academic programmes in fisheries and aquaculture. It also provides technical, training, analytical, advisory support and consultancy services in the field of fisheries resources assessment and management, standardization of aquaculture hatchery and grow-out culture technologies, responsible

fishing system and species diversification and utilization of inland saline soils for aquaculture, fish health monitoring, etc.

21. **Strengthening Agricultural Education, Management & Social Sciences:** The provision will provide financial support to all the agricultural universities in the country comprising State Agricultural Universities (SAUs), Deemed Universities (DUs), and Central Universities (CUs) with Agriculture Faculty. The scheme is also responsible for maintenance and improvement of standard of agricultural education through:(i) accreditation of educational institutions, (ii) providing International/national fellowships both at post and undergraduate levels,

(iii) Organization of training and capacity building programmes for the scientists/faculty of National Agricultural Research System in cutting-edge areas.

22. **ICAR Headquarters:** Provision is primarily for the salaries, pensions, expenses on administrative and logistic support to different schemes under ICAR in order to implement them efficiently.

23. **Central Agricultural Universities:** The provision is to strengthen the regional education, research and extension capabilities based on local agro-climatic situation.

24. **National Academy of Agricultural Sciences:** The provision is to provide a forum to Agricultural Scientists to deliberate on important issues of agricultural research, education, extension and present views of the scientific community as policy inputs to planners, decision/opinion makers at various levels.