Ministry of Agriculture and Farmers Welfare

Demand No. 2

Department of Agricultural Research and Education

1. Horticulture Science (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25			OUTCOMES 2024-25		
2024-25	**Output**	**Indicators**	**Targets 2024-25**	**Outcome**	**Indicators**	**Target 2024-25**
257.07	1. Knowledge Product Developed	1.1. Varieties to be released by CVRC	45	1. Transforming the business norms	1.1 Varieties to be in breeder seed chain/ Planting materials	150
		1.2. Practices, including GAPs/ Diagnostic Kits/ Mobile Apps to be developed and Films/ documentary to be produced	86		1.2 Varieties/ formulations/ diagnostics/ vaccines/ technologies/ Knowledge products to be commercialized	50
		1.3. Breakthroughs in R&D	4			
		1.4. Practices/technologies to be included in POPs.	34	2. Breaking the barriers	2.1 Increase in productivity over last year average (kg/ha)	80
					2.2 % genetic gain due to the technology (variety, production technology etc.)	0.6
					2.3 % increase in Seed/ variety replacement rate	1.5
				3. Outcome quality	3.1 H-Score/ J-Score of research articles/ reports to be published	600

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25			OUTCOMES 2024-25		
2024-25	Output	Indicators	Targets 2024-25	Outcome	Indicators	Target 2024-25
					3.2 Revenue to be generated through commercialization of knowledge products (Rs in Cr)	18

2. Natural Resource Management (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25			OUTCOMES 2024-25		
2024-25	Output	Indicators	Targets 2024-25	Outcome	Indicators	Target 2024-25
252.16	1. New Knowledge Product Developed/ delivered	1.1. Climate resilient villages to be created/ sustained	40	1. Transforming the business norms	1.1 % increase in average income at the Climate resilient villages over pre-adoption period	10
		1.2. Contingency Plans (CP) to be prepared/ modified	100			
		1.3. Block level land use Plans to be prepared/ modified	60			
		1.4. Good agriculture practices to be developed on soil, water, crops and farming system management	50	2. Breaking the barriers	2.1 % increase in production/ productivity over state/ national average	2
		1.5. Peer Reviewed Publications (NAAS>6)	120		2.2 Improved efficiency of input use over previous practice/ farmers practice (%)	10

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25			OUTCOMES 2024-25		
2024-25	**Output**	**Indicators**	**Targets 2024-25**	**Outcome**	**Indicators**	**Target 2024-25**
		1.6. Practices/ technologies to be included in Packages of Practices (POPs) by state agency	5	3. Impact of technology adoption	3.1 % increase in peer reviewed Publications (NAAS>6.0) per scientist over the previous year	5
		1.7. Villages covered under adoption of technology	15		3.2 Patents/ IPR/ Copy rights to be granted	5
					3.3 Technologies to be commercialized/ use in the state/ NARS system	10
					3.4 % increase in no. of farmers adopting the new technology over previous year	10

3. **Agricultural Engineering (CS)**

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25			OUTCOMES 2024-25		
2024-25	**Output**	**Indicators**	**Targets 2024-25**	**Outcome**	**Indicators**	**Target 2024-25**
91.24	1. Development/ improvement of prototype machines & process protocols for mechanization of agriculture production and post-production	1.1. Number of new prototype machines to be developed/ improved	20	1. Commercialization of developed machines/ process protocols/ products	1.1 License, patents to be granted/ filed.	13
		1.2. Number of new process protocols to be developed/ improved	10			
	2. Testing of Machines and products	2.1 Revenue to be generated by sample/ machine testing/ licensing etc. (Rs in Cr)	3.20	2. Strengthening and capacity building in agriculture and allied sector	2.1 Number of Farmers, entrepreneurs, students, and other stakeholders to be trained on farm mechanization and post- harvest processing.	520

4.   **Animal Science (CS)**

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25				OUTCOMES 2024-25		
2024-25	**Output**	**Indicators**		**Targets 2024-25**	**Outcome**	**Indicators**	**Target 2024-25**
415.15	1. New Knowledge Product Developed/ delivered	1.1	Peer reviewed research publications	710	1. Transforming the business norms	1.1 Technologies/ formulations/ diagnostics/ kits/ vaccines to be commercialized	15
		1.2	Animal vaccines/ vaccine candidates/ kits; Feed/ herbal formulations/ livestock products/ by-products to be developed	40		1.2 % increase in descript livestock and poultry population	5
		1.3	Forecasting of livestock diseases to be released	14		1.3 Patents granted/ GI/ Copyrights to be registered	15
		1.4	Semen doses/ improved germplasm of livestock and poultry to be produced (Rs in lakhs).	4.10			
		1.5	Livestock to be covered under health monitoring, disease status, control and eradication (Rs in lakhs).	1.30	2. Breaking the barriers	2.1 % increase in livestock productivity over last year/ state average	5
		1.6	Packages of Practices (POPs) in livestock and poultry for different production systems.	18		2.2 % reduction in major disease incidence and production loss	5
						2.3 % gain due to the technology (breed, improved germplasm/ products etc.)	2

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25			OUTCOMES 2024-25		
2024-25	**Output**	**Indicators**	**Targets 2024-25**	**Outcome**	**Indicators**	**Target 2024-25**
	2. Strengthening and Capacity building	2.1 Human resource graduated/ trained	396			
		2.2 Farmers/ Professionals/ Entrepreneurs trained	4,450	3. Outcome quality	3.1 Average H index of Scientists	18
					3.2 Revenue to be generated through commercialization of knowledge products (Rs in Cr)	0.60
				4. Policy Supports	4.1 No. of inputs/ knowledge products/ models to be incorporated in government policies/ strategies	2

5. Fisheries Sciences (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25			OUTCOMES 2024-25		
2024-25	**Output**	**Indicators**	**Targets 2024-25**	**Outcome**	**Indicators**	**Target 2024-25**
200.92	1. New Knowledge Product Developed/ delivered	1.1. Fish breeding & seed production technologies to be developed	7	1. Transforming the business norms	1.1 New fish species to be added in aquaculture production chain	5
		1.2. Farming practices, including GAPs to be developed	5	2. Breaking the barriers	2.1 Formulations/ diagnostics/ vaccines/ technologies to be commercialized	6

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25			OUTCOMES 2024-25		
2024-25	Output	Indicators	Targets 2024-25	Outcome	Indicators	Target 2024-25
		1.3. Formulations/ value-added products (fish feed, diagnostics, vaccines, therapeutics & other health products, nutraceuticals, post-harvest fish products, waste-to-wealth products, etc.) to be developed	18	3. Outcome quality	3.1 % Increase in productivity over last year	6
					3.2 % increase in the commercial hatcheries adopting genetically-improved fish seed production through institutional support over last year	20
		1.4. Human resource developed through training and demonstration	15,000	4. Policy Support	4.1 Knowledge products to be incorporated in policies/ strategies of public/ private sectors	3

6. Agriculture Extension (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25				OUTCOMES 2024-25		
2024-25	Output		Indicators	Targets 2024-25	Outcome	Indicators	Target 2024-25
234.89	1.	Delivery of Knowledge product via Capacity Building	1.1. On-Farm Trials (OFT) & Front line Demonstrations (FLS) (Rs in Lakh)	2	1. Enhanced Level of Adoption of Location-Specific Technologies for Framer-Centric Growth	1.1 Adoption Rate of New Technologies (%)	10
			1.2. Farmers & Extension Personnel to be trained (Rs in lakh)	15			
	2.	Strengthening the Subsidiary Services	2.1 No. of soil samples tested (Rs in lakh)	3			
	3.	Ease of Access to Critical Inputs	3.1 Quality Seed of Field/ Horticultural Crops produced & distributed (in tons)	15,000			
			3.2 Quality Planting materials produced & distributed (Rs in lakh)	250			

7. Agriculture Education (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25				OUTCOMES 2024-25		
2024-25	Output		Indicators	Targets 2024-25	Outcome	Indicators	Target 2024-25
398.74	1.	Teaching, Learning and Resource Student Strength	1.1. Students to be enrolled in UG, PG and Ph.D. Programmes (Rs in Lakh)	1.50	1. Agriculture Education Environment	1.1 Students qualifying JRF/ SRF/ NET/ GATE exams	4,100
			1.2. Girls to be enrolled	69,000			

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2024-25			OUTCOMES 2024-25		
2024-25	Output	Indicators	Targets 2024-25	Outcome	Indicators	Target 2024-25
		1.3. Masters and Doctoral Degrees to be awarded	17,500			
		1.4. Increase in enrolment over last year (%)	10			
		1.5. Increase in proportion of girls students enrolled (%)	2	2. Professional excellence	2.1 No. of universities with active placement cells/	68
					2.2 No. of students selected through campus placements	68,000
	2. Infrastructural Facilities	2.1 Creation of student/ faculty amenities (including Smart Classrooms, Hostels, Exam Hall and infra for creation of global universities)	187		2.3 Students/ graduate to be self-employed (Self-employments/ Startups)	55
	3. New Knowledge Products Developed	3.1 National and international collaborations	50	3. National/ International Recognition Policy support	3.1 Patents to be granted/ Copyrights to be Registered.	14
		3.2 Practices/ technologies to be included in POPs.	2		3.2 Publications in high impact factor Journals	4,000
					3.3 AUs in world ranking up to 500	3
					3.4 Inputs/ knowledge products/ models to be incorporated in government policies/ strategies.	20