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Results Framework Document

for

Department Of Agricultural Research & Education

(2011-2012)

Section 1:
Vision, Mission, Objectives and Functions

Vision

Harnessing science to ensure comprehensive and sustained physical, economic and ecological access to food and livelihood security to all Indians, through generation, assessment, refinement and adoption of appropriate technologies.

Mission

Sustainability and growth of Indian agriculture by interfacing agricultural research, higher education and front-line extension initiatives complemented with institutional, infrastructural and policy support that will create efficient and effective science-harnessing tool.

Objectives

1. Strengthening frontier research in identified areas / programs and quality seed production
2. Assessment, evaluation and conservation of plant, fish, microbes and animal genetic resources
3. Improving natural resource management and input use efficiency
4. Development of vaccines and disease diagnostics
5. Post harvest management / farm mechanization and value addition
6. IP management and commercialization of technologies
7. Strengthening of higher agricultural education
8. Strengthening of agricultural extension system and promoting gender issues

Functions

1. To plan, coordinate and monitor research for enhancing production and productivity of agriculture sector.
2. To assess implementation of various programmes in relation to target sets and provide mid-course correction.
3. To provide technological backstopping to various lines departments.
4. To develop Public-Private-Partnerships in developing seeds, planting materials, vaccines, feed formulations, value added products, agricultural machinery etc.
5. To serve as a repository in agriculture sector and develop linkages with national and international organizations as per the needs and current trends.
6. To enhance quality of higher education in agriculture sector.
7. Technology generation, commercialization and transfer to end users.
8. Human resource development and capacity building.

Section 2:
Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	VeryGood	Good	Fair	Poor
						100%	90%	80%	70%	60%
1 Strengthening frontier research in identified areas / programs and quality seed production	13.00	Facilities for frontier areas of research	Number of facilities developed / established	Number	0.87	4	3	2	1	0
		Evaluation of improved varieties for suitable crop husbandry practices	Number of breeding lines evaluated	Number	2.60	2100	1800	1500	1000	800
		Crop nutrition and productivity response	Number of varieties tested for productivity	Number	1.73	55	50	45	40	35
		Production of breeder seed, other seeds and planting material	Quantity of breeders seed produced annually	Tonnes	2.60	8200	8000	7500	7000	6000
			Quantity of other classes of seeds produced annually	Thousand Tonnes	2.60	46	43	40	35	30
			Quantity of planting materials produced annually	Number in lakhs	2.60	40	36	32	28	24
2 Assessment, evaluation and conservation of plant, fish, microbes and animal genetic resources	6.00	Evaluation, characterization and registration of new breeds / population	Number of new breeds / population characterized / registered	Number	1.29	5	4	3	2	1
		In situ / ex situ conservation of important breeds	In situ / ex situ conservation of plants	Number	0.86	2100	1700	1500	1000	800
			In situ / ex situ conservation of fish	Number	0.43	3	2	1	0	0
			In situ / ex situ conservation of livestock/poultry	Number	0.86	5	4	3	2	1
		Fish resources Assessment and eco-system monitoring	Number of explorations/ surveys carried out	Number	1.71	12	10	6	5	4
			Development of GIS based aquatic resource database	Number	0.86	2	1	0	0	0
3 Improving natural resource management and input use efficiency	17.00	Integrated nutrient management (INM)	Developing GIS based district / block level soil fertility maps	Number	2.55	15	13	12	10	9
			Developing INM packages for different Agro-eco	Number	2.55	5	4	3	2	1

Section 2:
Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	VeryGood	Good	Fair	Poor
						100%	90%	80%	70%	60%
			region of the country							
			Organizing training & demonstrations	Number	1.70	20	18	16	14	12
		Integrated water management (IWM)	Technologies for enhancing water use efficiencies	Number	1.70	5	4	3	2	1
			Technologies for water harvesting storage and groundwater recharge	Number	1.70	6	5	3	2	1
			Models/DSS for multiple uses of water	Number	0.85	3	2	1	0	0
			Organizing training & demonstrations	Number	1.70	15	13	12	10	9
		Climate resilient agriculture initiative	Awareness building amongst stake holders through trainings / demonstrations	Number	1.70	28	25	22	20	18
			Human resource development and capacity building	Number	1.53	7	6	5	4	3
			Testing crop varieties for climate resilience at different locations	Number	1.02	70	65	50	40	30
4 Development of vaccines and disease diagnostics	5.00	Development of diagnostic kits and vaccines and their field validation	Number of diagnostic kits / vaccines developed and validated	Number	5.00	7	6	4	2	1
5 Post harvest management / farm mechanization and value addition	5.00	Post harvest management to reduce processing and handling losses	Development of processes and value added products	Number	2.00	13	12	10	8	6
		Development / Refinement of tool & equipment for crop production and fabrication of prototypes	Machines / Tools developed / refined	Number	2.00	16	15	13	11	8
			Prototypes fabricated	Number	1.00	4100	4000	3500	3000	2000

Section 2:
Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	VeryGood	Good	Fair	Poor
						100%	90%	80%	70%	60%
6 IP management and commercialization of technologies	9.00	Partnership development, including licensing of ICAR technologies	Partners (private sector) identified	Number	4.50	30	25	20	15	10
		Patents and other IPR titles	Applications filed	Number	4.50	95	90	80	70	60
7 Strengthening of higher agricultural education	17.00	Financial support for strengthening of AUs	Financial support provided	Rupees in crores	2.55	360	350	275	250	225
		Establishment of experiential learning units	E-units established	Number	1.70	25	22	20	18	15
		Accreditation / Extension of Accreditation of agricultural universities	Number of universities granted accreditation / extension of accreditation	Number	2.55	9	8	6	5	4
		Grant of ICAR International fellowships to Indian / foreign students	Number of fellowships awarded	Number	2.38	13	12	10	8	6
		Grant of JRF and SRF to students	Number of fellowships granted per year	Number	3.40	650	625	575	500	475
		Capacity building and faculty up-gradation	Number of summer / winter schools organized	Number	1.70	25	22	20	18	16
			Number of teachers trained	Number	1.70	1100	1000	800	700	600
		Publication of research papers in impact journals of NAAS	Number of papers published in impact journals of NAAS having impact factor 5 and above	Number	1.02	25	20	15	10	5
8 Strengthening of agricultural extension system and promoting gender issues	13.00	Establishment of demonstration / training facilities for soil and water testing, rain water harvesting, etc.	Additional KVKs with such facilities	Number	3.47	200	180	160	140	120
		Technology assessment through on-farm trials	Number of technologies assessed	Number	2.60	20	18	16	14	12
		Establishment of new KVKs	Number of new KVKs to be established	Number	2.60	16	15	13	11	10

Section 2:
Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	VeryGood	Good	Fair	Poor
						100%	90%	80%	70%	60%
		Technology showcasing	Demonstrations / training organized	Number	2.60	100	90	80	70	60
		Promotion of technologies covering Gender concerns	Gender-related technology promotion programs conducted	Number	1.73	20	18	16	14	12
* Efficient Functioning of the RFD System	3.00	Timely submission of Draft for Approval	On-time submission	Date	2.00	07/03/2011	08/03/2011	09/03/2011	10/03/2011	11/03/2011
		Timely submission of Results	On-time submission	Date	1.00	01/05/2011	03/05/2011	04/05/2011	05/05/2011	06/05/2011
* Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department	10.00	Identify and Implement 3 major recommendations of ARC II relevant to the department	Finalize 3 major recommendations of ARC II relevant to the department	Date	2.00	10/12/2011	15/12/2011	20/12/2011	24/12/2011	31/12/2011
		Identify potential areas of corruption related to departmental activities and develop an action plan to mitigate them	Finalize an action plan to mitigate potential areas of corruption.	Date	2.00	10/12/2011	15/12/2011	20/12/2011	24/12/2011	31/12/2011
		Develop an action plan for e-office Implementation in the department / ministry	Finalize an action plan for e-office	Date	2.00	10/12/2011	15/12/2011	20/12/2011	24/12/2011	31/12/2011
		Develop an action plan to implement ISO 9001 certification	Finalize an action plan to implement ISO 9001 certification	Date	2.00	10/12/2011	15/12/2011	20/12/2011	24/12/2011	31/12/2011
		Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	1.00	100	95	90	85	80
			Independent Audit of Implementation of Grievance Redress Mechanism	%	1.00	100	95	90	85	80
* Ensuring compliance to the Financial Accountability Framework	2.00	Timely submission of ATNS on Audit paras of C&AG	Percentage of ATNS submitted within due date (4 months) from date of presentation of Report to Parliament by CAG during the year.	%	0.50	100	90	80	70	60

* Mandatory Objective(s)

Section 2:
Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	VeryGood	Good	Fair	Poor
						100%	90%	80%	70%	60%
		Timely submission of ATRs to the PAC Sectt. on PAC Reports.	Percentage of ATRS submitted within due date (6 months) from date of presentation of Report to Parliament by PAC during the year.	%	0.50	100	90	80	70	60
		Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2011.	Percentage of outstanding ATNS disposed off during the year.	%	0.50	100	90	80	70	60
		Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2011	Percentage of outstanding ATRS disposed off during the year.	%	0.50	100	90	80	70	60

* Mandatory Objective(s)

Section 3:
Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 09/10	Actual Value for FY 10/11	Target Value for FY 11/12	Projected Value for FY 12/13	Projected Value for FY 13/14
1 Strengthening frontier research in identified areas / programs and quality seed production	Facilities for frontier areas of research	Number of facilities developed / established	Number	0	0	3	2	2
	Evaluation of improved varieties for suitable crop husbandry practices	Number of breeding lines evaluated	Number	1800	1800	1800	2100	2200
	Crop nutrition and productivity response	Number of varieties tested for productivity	Number	40	40	50	50	60
	Production of breeder seed, other seeds and planting material	Quantity of breeders seed produced annually	Tonnes	8000	8000	8000	8200	8500
		Quantity of other classes of seeds produced annually	Thousand Tonnes	40	40	43	46	48
		Quantity of planting materials produced annually	Number in lakhs	30	35	36	45	50
2 Assessment, evaluation and conservation of plant, fish, microbes and animal genetic resources	Evaluation, characterization and registration of new breeds / population	Number of new breeds / population characterized / registered	Number	0	2	4	4	5
	In situ / ex situ conservation of important breeds	In situ / ex situ conservation of plants	Number	1800	2000	1700	1900	2100
		In situ / ex situ conservation of fish	Number	0	2	2	3	5
		In situ / ex situ conservation of livestock/poultry	Number	2	2	4	4	4
	Fish resources Assessment and eco-system monitoring	Number of explorations/ surveys carried out	Number	0	10	10	15	20
		Development of GIS based aquatic resource database	Number	1	1	1	2	2
3 Improving natural resource management and input use efficiency	Integrated nutrient management (INM)	Developing GIS based district / block level soil fertility maps	Number	0	10	13	16	20

Section 3:
Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 09/10	Actual Value for FY 10/11	Target Value for FY 11/12	Projected Value for FY 12/13	Projected Value for FY 13/14
		Developing INM packages for different Agro-eco region of the country	Number	0	4	4	5	5
		Organizing training & demonstrations	Number	0	15	18	20	25
	Integrated water management (IWM)	Technologies for enhancing water use efficiencies	Number	0	4	4	5	5
		Technologies for water harvesting storage and groundwater recharge	Number	0	5	5	5	5
		Models/DSS for multiple uses of water	Number	0	2	2	3	3
		Organizing training & demonstrations	Number	0	10	13	15	20
	Climate resilient agriculture initiative	Awareness building amongst stake holders through trainings / demonstrations	Number	0	0	25	28	30
		Human resource development and capacity building	Number	0	0	6	10	12
		Testing crop varieties for climate resilience at different locations	Number	--	--	65	68	70
4 Development of vaccines and disease diagnostics	Development of diagnostic kits and vaccines and their field validation	Number of diagnostic kits / vaccines developed and validated	Number	5	8	6	6	6
5 Post harvest management / farm mechanization and value addition	Post harvest management to reduce processing and handling losses	Development of processes and value added products	Number	12	12	12	15	20
	Development / Refinement of tool & equipment for crop production and fabrication of prototypes	Machines / Tools developed / refined	Number	13	14	15	17	18

Section 3:
Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 09/10	Actual Value for FY 10/11	Target Value for FY 11/12	Projected Value for FY 12/13	Projected Value for FY 13/14
		Prototypes fabricated	Number	2088	4000	4000	4500	5000
6 IP management and commercialization of technologies	Partnership development, including licensing of ICAR technologies	Partners (private sector) identified	Number	16	20	25	30	35
	Patents and other IPR titles	Applications filed	Number	58	70	90	110	130
7 Strengthening of higher agricultural education	Financial support for strengthening of AUs	Financial support provided	Rupees in crores	250	350	350	350	375
	Establishment of experiential learning units	E-units established	Number	20	20	22	30	35
	Accreditation / Extension of Accreditation of agricultural universities	Number of universities granted accreditation / extension of accreditation	Number	8	8	8	10	10
	Grant of ICAR International fellowships to Indian / foreign students	Number of fellowships awarded	Number	6	12	12	13	14
	Grant of JRF and SRF to students	Number of fellowships granted per year	Number	600	625	625	640	650
	Capacity building and faculty up-gradation	Number of summer / winter schools organized	Number	0	0	22	30	35
		Number of teachers trained	Number	950	1000	1000	1000	1000
	Publication of research papers in impact journals of NAAS	Number of papers published in impact journals of NAAS having impact factor 5 and above	Number	15	18	20	22	25
8 Strengthening of agricultural extension system and promoting gender issues	Establishment of demonstration / training facilities for soil and water testing, rain water harvesting, etc.	Additional KVKs with such facilities	Number	0	58	180	200	0
	Technology assessment through on-farm trials	Number of technologies assessed	Number	10	15	18	30	40
	Establishment of new KVKs	Number of new KVKs to be established	Number	3	6	15	16	18

Section 3:
Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 09/10	Actual Value for FY 10/11	Target Value for FY 11/12	Projected Value for FY 12/13	Projected Value for FY 13/14
	Technology showcasing	Demonstrations / training organized	Number	70	75	90	110	130
	Promotion of technologies covering Gender concerns	Gender-related technology promotion programs conducted	Number	11	12	18	20	25
* Efficient Functioning of the RFD System	Timely submission of Draft for Approval	On-time submission	Date	--	02/11/2010	08/03/2011	--	--
	Timely submission of Results	On-time submission	Date	--	05/03/2010	03/05/2011	--	--
* Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department	Identify and Implement 3 major recommendations of ARC II relevant to the department	Finalize 3 major recommendations of ARC II relevant to the department	Date	--	--	15/12/2011	--	--
	Identify potential areas of corruption related to departmental activities and develop an action plan to mitigate them	Finalize an action plan to mitigate potential areas of corruption.	Date	--	--	15/12/2011	--	--
	Develop an action plan for e-office Implementation in the department / ministry	Finalize an action plan for e-office	Date	--	--	15/12/2011	--	--
	Develop an action plan to implement ISO 9001 certification	Finalize an action plan to implement ISO 9001 certification	Date	--	--	15/12/2011	--	--
	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	--	--	95	--	--
		Independent Audit of Implementation of Grievance Redress Mechanism	%	--	--	95	--	--

* Mandatory Objective(s)

Section 3:
Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 09/10	Actual Value for FY 10/11	Target Value for FY 11/12	Projected Value for FY 12/13	Projected Value for FY 13/14
* Ensuring compliance to the Financial Accountability Framework	Timely submission of ATNS on Audit paras of C&AG	Percentage of ATNS submitted within due date (4 months) from date of presentation of Report to Parliament by CAG during the year.	%	--	--	90	--	--
	Timely submission of ATRs to the PAC Sectt. on PAC Reports.	Percentage of ATRS submitted within due date (6 months) from date of presentation of Report to Parliament by PAC during the year.	%	--	--	90	--	--
	Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2011.	Percentage of outstanding ATNS disposed off during the year.	%	--	--	90	--	--
	Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2011	Percentage of outstanding ATRS disposed off during the year.	%	--	--	90	--	--

* Mandatory Objective(s)

Section 4:
Description and Definition of Success Indicators and Proposed Measurement Methodology

Objective 1. Strengthening frontier research in identified areas/programs and quality seed production

With respect to strengthening frontier research in identified areas; initiation of new facilities/ institutions, human resource development addressing emerging issues are important criteria for promoting research and education. Performance monitoring for quality of students/ publications are indicators. Developing high yielding varieties, requiring less input like fertilizers, water and pesticides and having tolerance to biotic and abiotic stresses are important.

The genetic diversity of various horticultural crops will be collected from different eco-regions, characterized and utilized to develop varieties for higher yield, quality and biotic and abiotic stresses. The productivity of various horticultural crops will be improved for food, nutritional, ecological security. The action points/success production of quality seeds and planting materials as well as development of value added products.

Objective 2. Assessment, evaluation and conservation of plant , fish and animal genetic resources

With respect to conservation of genetic resources for sustainable use, it is envisaged to conserve plant, microbe genetic resources in the repository, evaluation and further utilization of resources for improving yield in a sustainable manner. Evaluation, characterization and registration will involve development of phenotypic descriptors with supportive data on. Its production parameters with photographic evidence / proofs through NGOs /SAUs/ State Departments, etc. The registration will involve a denoted departmental procedure and thereby allotment of accession number. The in situ conservation will be indicated by establishment of herds / flocks in the natural habitat of the breed with specified minimum number of breeding population and their followers involving farmers, NGOs and other development agencies whereas the ex situ conservation will be in the form of cryopreservation of semen / DNA / somatic cells/embryos.

To enhance fish production and productivity on a sustainable basis from the available resources, and to address the issues and strategies to overcome the critical research gaps in realizing the full production potential from fisheries and aquaculture sector, the research activities have been consolidated. It is expected that by undertaking these programmes, there would be an increase in fish production, conservation of resources, more opportunities for livelihood and employment generation. These strategies and restructuring initiatives are aimed at identifying priorities for focused research to achieve the set targets and ensure accountability in converting outlays into outputs & outcomes, better returns on investments, optimum utilization of resources to achieve the vision “Fish for All”.

Objective 3. Improving natural resource management and input use efficiency

With respect to improving soil health and water productivity, integrated nutrient and water management are essential. The action points/ success indicators cover developing GIS based soil fertility maps, integrated nutrient management packages, enhancing water storage and ground water recharge and multiple uses of water. Emphasis will specifically be on climate resilient agriculture through training/demonstration of technologies and capacity building.

Objective 4. Development of vaccines and disease diagnostics

The production of diagnostic kits and vaccines would involve delineation of process (processes). The number of prophylactics developed, their field validation and control of economically important livestock and fish diseases would be the indicators.

Objective 5. Post harvest management / farm mechanization and value addition

Post harvest management and value addition to reduce post harvest losses and develop prototypes for various agricultural operations to enhance ease in farm operation and improve productivity are success indicators.

Objective 6. IP management and commercialization of technologies

Section 4:
Description and Definition of Success Indicators and Proposed Measurement Methodology

With respect to commercialization of technologies and promoting public-private partnership, it is envisaged to bring commercial ethos in agricultural research. Indicators for commercialization of technologies, promoting public-private partnership, and protection of intellectual property rights will be determined by the commercialization through partnership development, including licensing of ICAR technologies. The increasing numbers over the years may indicate a higher emphasis on technology transfer through enterprises; thereby contributing to larger adoption and improved socio-economic impact of ICAR technologies.

Objective 7. Strengthening of higher agricultural education

With respect to “Strengthening of higher agricultural education”, the success will be measured from the indicator the number of universities having developed appropriate e-learning tools and resources. Similarly, Accreditation/ Extension of Accreditation of agricultural universities will require number of universities granted accreditation/ extension of accreditation; Grant of ICAR International fellowships to Indian and foreign students, and JRF and SRF, as applicable, will cover number of such fellowships awarded. However, such numbers of grants will also depend upon the availability of competent candidates for the fellowships. The award of international fellowships programme has been intiated only during 2009-10 and, therefore, no trend value has been indicated for the FY 08-09. Capacity building and faculty upgradation of teachers will be measured from the number of teachers trained per year.

Objective 8. Strengthening of agricultural extension system and promoting gender issues

The success indicators with respect to operation of e-connectivity of KVKs are the actual number of e-connectivity facilities created. The success indicators of the establishment of demonstration/ training facilities for soil & water testing, rain water harvesting etc. indicates the actual number of KVKs provided with these facilities during the period. Actual number of new KVKs established during the period is the success indicator which is measured in terms of the target achieved against the target set during the year. Demonstration and trainings organized are measured with the actual numbers of such programmes/ activities undertaken by the KVKs. A weight of 1.40 is assigned with this activity. Regarding support for promoting gender issues is measured through the success indicators of actual number of gender related technology promotion programmes to reduce drudgery in farm operation by women.

Section 5:
Specific Performance Requirements from other Departments

1. Strengthening of agricultural universities will depend on their initiative / responsiveness, including the timely implementation of plans by the respective SAUs.
2. The quantity of breeder seed produced is based on the quantity indented by Department of Agriculture and Cooperation, which in turn collects indents from various seed agencies including State Departments of Agriculture.
3. Establishment of KVKs and strengthening of existing KVK shall depend upon timely availability of sufficient funds and other resource4s and cooperation from state departments and local bodies and a smooth implementation by the agencies managing KVKs.
4. Technology adoption would depend upon the proactive role of development departments namely DAC, DAHD & AF and SAUs etc.
5. Financial support as per EFC/SFC allocation of institutes under Horticulture Division including AICRP/Network projects.
6. Support from SAUs, KVKs and line department for promotion of adoption of technologies developed by the institutes.
7. The major role will be of collecting detailed information on various parameters as per the formats developed by NBAGR, Karnal, hence the state SAUs, AH departments, NGOs and actual animal keepers will play a key role in providing the desired information.
8. The Fisheries Division is working in close coordination and linkages with the Ministry of Agriculture; Ministry of Commerce; Ministry of Science & Technology; Ministry of Environment & Forest; Ministry of Earth Sciences; Ministry of Food Processing etc. through interface and participation in various committees and meetings addressing the researchable issues in fisheries and aquaculture for formulating the strategies and guidelines for policy interventions to facilitate increasing fish production and productivity. Support from all these agencies and organizations are essential for achieving the mission of providing required food, nutritional, socio-economic and livelihood security.
9. The area requires sound commitment for monitoring support for production of diagnostic vaccines whereas for validation under field conditions, a strong commitment and participation of state agencies will be required. (State AH departments, Pvt. Industry for up-scaling)
10. Financial support as per SFC/ EFC allocation of different NRM institutes including AICRP/ network projects.
11. Support from the associated SAU's/ line departments for promoting adoption of developed technologies.
12. The establishment of new Central Universities will depend upon the support/ timely availability of sufficient funds from Central Government and other resources in terms of land acquisitions from the State Government.
13. Regarding the achievements related to establishment of KVKs it is submitted that, receipt of suitable proposals from various organizations interested in opening the KVKs and availability of suitable land in the districts where it was not opened is very important.
14. The success with respect to promotion of technologies covering gender issues requires the collaboration of AICRP centres, Agricultural Engineering Division and the line departments are important in generating suitable gender data base, assessment of the technologies keeping in view the gender perspectives and their dissemination.

Section 6:
OutCome/Impact of Department/Ministry

OutCome/Impact of Department/Ministry	Jointly responsible for influencing this outcome / impact with the following department (s) / ministry(ies)	Success Indicator	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14
1 Enhancing agriculture productivity including livestock, poultry and fish through input use efficiency	DAHDF, DAC, Planning Commission & Ministry of Environment	Percent increase in agriculture productivity	0	0	5	0	0
2 Quality human resource development in agriculture	SAUs / SVUs	Number of quality students passed	0	0	625	0	0
3 Technology showcasing for enhancing rural livelihood security	SAUs / SVUs / NGOs, State Govt. Extension Departments, DAC & DAHDF	Percent increase in the economic condition of agricultural farmers adopting new technologies	0	0	5	0	0
4 Improving nutritional security through post harvest management and value addition	Ministry of Food Processing, DST, DBT & ICMR	Percent increase in per capita availability of agricultural products	0	0	3	0	0