



Results-Framework Document (RFD)

for

Central Soil & Water Conservation Research & Training Institute (2013 - 2014)

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Section 1: Vision, Mission, Objectives and Functions

Vision

Conservation and management of soil and water resources of the country for sustainable production.

Mission

To develop technologies for controlling land degradation and enhancing productivity on sustainable basis for ensuring food, environmental, economic and livelihood security of stakeholders.

Objectives

- Generation of suitable resource conservation technologies for controlling land degradation and sustaining production from rehabilitated degraded lands
- Evaluation of hydrological behavior and management of watersheds for improving water regime and reducing sediment yield
- Human resource development and capacity building

Functions

- Undertake research and develop strategies for controlling land degradation under all primary production systems and rehabilitation of degraded lands in different agro-ecological zones of the country.
- Act as a repository of information on the status of soil degradation/soil and water conservation.
- Provide leadership and co-ordinate research network with State Agricultural Universities/Institutions/NGOs/State Departments for developing location-specific technologies in the area of soil and water conservation.
- Act as a national and international centre for training in research methodologies and updated technology in soil and water conservation, watershed development and its management.
- Provide consultancy and collaborate with national and international institutions in the field of soil and water conservation.

Section 2: *Inter se* priorities among key objectives, success indicators and targets

S. No.	Objectives	Weight	Actions	Success Indicators	Unit	Weight	Target/Criteria Values				
							Excellent 100%	Very good 90%	Good 80%	Fair 70%	Poor 60%
1.	Generation of suitable resource conservation technologies for controlling land degradation and sustainable production from rehabilitated degraded lands	30	Assessment of natural resources status	GIS based thematic maps prepared / database created	No.	10	6	5	4	3	2
			Developing resource conserving technologies	Resource conserving technologies / products / farm plans for arable lands developed	No.	10	5	4	3	2	1
				Resource conserving technologies / plans/ products for non-arable lands developed	No.	10	4	3	2	1	0
2.	Evaluation of hydrological behaviour and management of watersheds for improving water regime and reducing sediment yield	29	Development of soil & water conservation (SWC) and water harvesting (surface and ground water) technologies / products	Technologies / products for SWC and surface and ground water harvesting and recycling developed	No.	12	4	3	2	1	0
			Creation of live models on Integrated Watershed Development (IWD)	Watershed area planned / treated	ha	17	555	500	444	388	333
3	Human resource development and capacity building	30	Creation of awareness & skill sharpening	Trainings organized	No.	5	100	90	80	70	60
				Seminar / symposium / workshop / in-plant training for graduate & post-graduate students / summer & winter school, etc. organized	No.	5	24	21	18	15	12
				Extension material developed/ published	No.	5	18	15	12	9	6
			Transfer of resource conserving technologies in farmers fields	Demonstrations conducted on resource conservation technologies	No.	15	65	60	55	50	45

Efficient functioning of the RFD system	3	Timely submission of draft RFD 2013-14 for approval	On-time submission	Date	2	15 May, 2013	16 May, 2013	17 May, 2013	20 May, 2013	21 May, 2013
		Timely submission of results for RFD 2012-13	On-time submission	Date	1	1 May, 2013	2 May, 2013	5 May, 2013	6 May, 2013	7 May, 2013
Administrative reforms	4	Implement ISO 9001 as per the approved action plan	% implementation	%	2	100	95	90	85	80
		Prepare an action plan for innovation	On-time submission	Date	2	30 July, 2013	10 Aug., 2013	20 Aug., 2013	30 Aug., 2013	10 Sept., 2013
Improving internal efficiency / responsiveness/ service delivery of Ministry/ Department	4	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	2	100	95	90	85	80
			Independent Audit of implementation of public grievance redressal system	%	2	100	95	90	85	80

Section 3: Trend values of the Success Indicators

S. No.	Objective	Action(s)	Success Indicator(s)	Unit	Actual value of FY 11/12	Actual value of FY 12/13	Target Value for FY 13/14	Projected value of FY 14/15	Projected Value for FY 15/16
1	Generation of suitable resource conservation technologies for controlling land degradation and sustainable production from rehabilitated degraded lands	Assessment of natural resources status	GIS based thematic maps prepared / database created	Number	22	6	5	5	6
		Developing resource conserving technologies	Resource conserving technologies / products / farm plans for arable lands developed	Number	4	4	4	5	6
			Resource conserving technologies / plans/ products for non-arable lands developed	Number	1	1	3	4	4
2	Evaluation of hydrological behavior and management of watersheds for improving water regime and reducing sediment yield	Development of soil & water conservation (SWC) and water harvesting (surface and ground water) technologies / products	Technologies / products for SWC and surface and ground water harvesting and recycling developed	Number	1	1	3	3	4
		Creation of live models on Integrated Watershed Development (IWD)	Watershed area planned / treated	ha	1200	529.9	500	550	600
3	Human resource development and capacity building	Creation of awareness & skill sharpening	Trainings organized	Number	102	120	90	95	100
			Seminar / symposium / workshop / in-plant training for graduate & post-graduate students / summer & winter school, etc. organized	Number	6	22	21	26	28
			Extension material developed/published	Number	15	16	15	18	20
		Transfer of resource conserving technologies in farmers fields	Demonstrations conducted on resource conservation technologies	Number	600	354	60	65	70
	Efficient functioning of the RFD System	Timely submission of Draft RFD (2013-14) for approval	On-time submission	Date	-	-	16 May, 2013	-	-

		Timely submission of Results for RFD (2012-13)	On-time submission	Date	-	-	2 May, 2013	-	-
	Administrative Reforms	Implement ISO 9001 as per the approved action plan	% implementation	%	-	-	95	-	-
		Prepare an action plan for Innovation	On-time submission	Date	-	-	10 Aug., 2013	-	-
	Improving internal efficiency/responsiveness/services delivery of Ministry/Department	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	-	-	95	-	-
			Independent Audit of implementation of public grievance redressal system	%	-	-	95	-	-

Section 4 : Acronyms

S. No.	Acronym	Description
1.	DRDA	District Rural Development Agency
2.	GIS	Geographic Information System
3.	ICAR	Indian Council Agricultural Research
4.	IWD	Integrated Watershed Development
5.	NGO	Non-Government Organization
6.	NRAA	National Rainfed Area Authority
7.	PRI	<i>Panchayati Raj</i> Institution
8.	RS	Remote Sensing
9.	SAUs	State Agricultural Universities
10.	SLNA	State Level Nodal Agency
11.	SWC	Soil and Water Conservation
12.	IWM	Integrated Water Management

Section 4: Description and definition of success indicators and proposed measurement methodology

S. No.	Success Indicator	Description	Definition	Measurement	General Comments
1.	GIS based thematic maps prepared / database created	Natural resources characterization & assessment is a prerequisite for mitigation of degradation impact	Natural resources (land water & vegetation) maps are the record of land units delineated on the basis of similar degradation problems in a readable format	Maps and reports will be prepared using RS/GIS, field surveys and research experiments on various land degradation problem areas of India	A number of maps/data bases/reports generated will ensure effective monitoring and judicious use of our land and water resources
2.	Resource conserving technologies / products / farm plans for rainfed arable lands developed	Soil and water conservation technologies / farm plans have proven to be effective in mitigating production risk through improvement in soil quality, biomass productivity, carbon sequestration and employment from arable lands	A technology that reduces soil loss and runoff from arable land leading to increase input use efficiency, productivity and profitability	The number of such technologies / plans / products / software used and validated in real field situations	Generation of such technologies for adoption by stakeholders will lead to augmentation and sustenance of agricultural production from rainfed arable lands of the country
3.	Resource conserving technologies / plans/ products for non-arable lands developed	Soil and water conservation technologies have proven to be effective in checking erodibility and improving land production base of non arable lands	A technology that reduces soil loss and runoff from non-arable land and enhance land production base	The number of such technologies / products / plan / software validated in field situations	Generation of such technologies for adoption by stakeholders will lead to resource conservation, improved biomass and environmental security from non-arable lands of the country
4.	Technologies / products for SWC and surface and ground water harvesting and recycling developed	Success of watershed development programmes depends on efficient management and utilization of rainwater through appropriate on surface /	A technology that efficiently harvests rainwater and its appropriate utilization to meet demands for agriculture and allied sectors.	The number of technologies / products developed leading to tangible and intangible benefit to farmer's and amply validated on	Growing concern of the climatic uncertainty, coupled with competing demands for water among agriculture and other allied sectors calls for environment friendly and rigorously tested and

S. No.	Success Indicator	Description	Definition	Measurement	General Comments
		underground water harvesting, utilization and recycling technologies.		farmers' field	validated water harvesting and recycling technologies to combat future water scarcity problems.
5.	Watershed area planned / treated	Watershed programmes are now considered to be the drivers for conservation of natural resources, improve land production base and livelihood security	Watershed area treated with conservation and production technologies for demonstration for enhancing livelihood security with improvement in natural resource base.	Watershed area treated	These areas will serve as models for replication in other similar areas by implementing agencies
6.	Trainings organized	Enhancement of knowledge and skills of primary and secondary stakeholders on natural resource conservation and management	Knowledge and skill development in the field of natural resource conserving and management technologies	Number of trainings	Skill enhancement of primary and secondary stakeholders
7.	Seminar / symposium / workshop / in-plant training for graduate & post-graduate students / summer & winter school, etc. organized	Sharing of knowledge and expertise with other researchers and technocrats, implementers and educationists by organizing seminar / symposium / workshop / training	Create awareness, identification of widely adoptable technologies and future areas in research and development in the field of soil and water conservation and watershed management	Number of events / programmes organized	Enhanced knowledge domain and policy advocacy for technology dissemination
8.	Extension material developed/published	Documentation of successful resource conservation technologies for enhancing the skill of user groups	Presentation of successful technologies in simple understandable and adoptable literature / electronic form	Number of publications	Documentation and dissemination of resource conservation technologies in the form of policy briefs, pamphlets, brochures, bulletins, popular articles etc
9.	Demonstrations conducted on resource conservation technologies	Validation of technologies on farmers' fields	Demonstration of proven technologies for validation at farmers field	Number of demonstrations	Wider dissemination and up-scaling of resource conservation technologies

Section 5: Specific Performance Requirements from other Departments

Location Type	State	Organization Type	Organization Name	Relevant Success Indicator	What is your requirement from this organization	Justification for this requirement	Please quantify your requirement from this organization	What happens if your requirement is not met
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Section 6: Outcome / Impact* of the activities of the organizations.

S. No.	Outcome / Impact of organization	Jointly responsible for influencing this outcome / impact with the following department(s)/ ministry(ies)	Success Indicator (s)	Unit	2011-12	2012-13	2013-14	2014-15	2015-16
1.	Enhanced skill and capacity in implementation of integrated watershed management (IWM) programme	NRAA, SLNA, Agri. Deptt., DRDA, other State-line Departments, Primary stakeholders, their groups (community based organization), PRI and NGO's	Increase in knowledge and competence of watershed stakeholders	%	20	20	22	22	25
2.	Water and soil conserved	NRAA, SLNA, Agri. Deptt., DRDA, other State-line Departments, Primary stakeholders, user groups (community based organization), PRI and NGO's	Reduction in runoff and soil loss from integrated watershed management (IWM) programmed areas	%	15	20	20	25	30
3.	Increase in family income through watershed management programme	NRAA, SLNA, Agri. Deptt., DRDA, other State-line Departments, Primary stakeholders, user groups (community based organization), PRI and NGO's	Enhancement in income from agriculture and allied activities under watershed development programme	%	5	6	8	10	12

