RFD

RESULTS - FRAMEWORK DOCUMENT

(2011 – 2012)

NATIONAL RESEARCH CENTRE FOR ORCHIDS

Pakyong – 737 106, East Sikkim, India

Website: http://nrcorchids.nic.in

Section 1:

Vision, Mission, Objectives and Functions

Vision

- Harnessing Science to increase the productivity, generation of employment, support to the industry for export of the cut flowers, potted plants and planting materials of orchids.

Mission

- Sustainable growth of orchids by mission oriented research with a view to develop new varieties and hybrids suitable for export and to develop suitable production technology

Objectives

1. Conservation of genetic resources/germplasm for sustainable use
2. Production and post-harvest management of orchids
3. Insect pests and disease management of orchids
4. Organization of trainings and demonstrations

Functions

To plan, coordinate, implement and monitor R&D programmes for sustainable production of orchids and resource conservation.

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

Objectives	Weight	Action	Success Indicators	Unit	Weight	Target/Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
1. Conservation of genetic resources/germplasm for sustainable use.	30	Collection, conservation of orchid germplasm.	Number of germplasm collected.	Number	20	50	45	40	35	32
		Characterization of Orchids	Molecular and DUS characterization of orchids.	Number	10	15	13	12	10	9
2. Production and post harvest management of orchids.	34	Integrated Production Management of orchids.	Number of production technology for *Cymbidium, Dendrobium* and *Phalaenopsis* orchids	Number	20	4	3	2	1	NA
		Post harvest management	Number of technology for post harvest management in *Cymbidium*	Number	4	2	1	NA	NA	NA
		Production of planting materials	Number of plantlets produced	Number	10	10000	9000	8000	7000	6000
3. Insect pests and disease management of orchids.	15	Indexing for viral diseases from different locations	Number of locations	Number	10	10	9	8	7	6
		IPM for Orchids	Number of targeted pests	Number	05	5	4	4	3	NA
4. Organizing trainings and demonstrations.	10	Training /demonstrations / seminar	Number of training and demonstrations organized.	Number	10	10	9	6	5	3
5. Efficient functioning of the RFD system	11	Timely submission of RFD for 2011-12	On-time submission	Date	2	10.06. 2011	14.06. 2011	16.06.2011	20.06. 2011	22.06. 2011
		Timely submission of Results for 2011-12	On-time submission	Date	1	01.05.2012	03.05.2012	04.05.2012	05.05.2012	06.05.2012
		Finalize a Strategic Plan for RC	Finalize the Strategic Plan for next 5 years	Date	2	10.12.2011	15.12.2011	20.12.2011	24.12.2011	31.12.2011
		Identify potential areas of corruption related to organisation activities and develop an action plan to mitigate them	Finalize an action plan to mitigate potential areas of corruption.	Date	2	10.12.2011	15.12.2011	20.12.2011	24.12.2011	31.12.2011
		Implementation of Sevottam	Create a Sevottam compliant system to implement, monitor and review Citizen's Charter	Date	2	10.12.2011	15.12.2011	20.12.2011	24.12.2011	31.12.2011
			Create a Sevottam Compliant system to redress and monitor public Grievances	Date	2	10.12.2011	15.12.2011	20.12.2011	24.12.2011	31.12.2011

Section 3:Trend Values of the Success Indicators

Objectives	Action	Success Indicators	Unit	Actual value for FY 09/10	Actual value for FY 10/11	Target value FY 11/12	Projected value FY 12/13	Projectedl Value FY13/14
1. Conservation of genetic resources/germplasm for sustainable use.	Collection, conservation of orchid germplasm.	Number of germplasm collected.	Number	30	40	45	55	65
	Characterization of orchids	Molecular and DUS characterization orchids.	Number	10	12	13	19	25
2. Production and post harvest management of orchids.	Integrated production management of orchids.	Number of production technology for *Cymbidium, Dendrobium* and *Phalaenopsis* orchids	Number	1	2	3	4	5
	Post harvest management	Number of technology for post harvest management in Cymbidium	Number	1	1	1	2	2
	Production of planting materials	Number of plantlets produced	Number	7000	8000	9000	10,000	12,000
3. Insect pests and disease management of orchids.	Indexing for viral diseases from different locations	Number of locations	Number	6	7	9	8	6
	IPM for orchids	Number of targeted pests	Number	2	3	4	2	2
4. Organizing trainings and demonstrations.	Training /demonstrations / seminar	Number of training and demonstrations organized.	Number	5	6	9	10	11
5. Efficient Functioning of the RFD System	Timely submission of RFD for 2011-12	On-time submission	Date	-	-	14.06. 2011	-	-
	Timely submission of Results for 2011-12	On-time submission	Date	-	-	03.05.2012	-	-
	Finalize a Strategic Plan	Finalize the Strategic Plan for next 5 years	Date	-	-	15.12.2011	-	-
	Identify potential areas of corruption related to organisation activities and develop an action plan to mitigate them	Finalize an action plan to mitigate potential areas of corruption.	Date	-	-	15.12.2011	-	-
	Implementation of Sevottam	Create a Sevottam compliant system to implement, monitor and review Citizen's Charter	Date	-	-	15.12.2011	-	-
		Create a Sevottam Compliant system to redress and monitor public Grievances	Date	-	-	15 .12.2011	-	-

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

Objective 1: The genetic diversity of orchid will be collected from different eco-regions, characterized and promising genotypes would be registered with NBPGR. The success will be measured in terms of number of germplasm collected and characterized and number of genotypes registered with NBPGR.

Objective 2: It is essential to study nutrient requirements of orchids for production of quality cut flowers. Post harvest studies to be conducted to get increased quality and vase life of commercial orchids. Production of good quality planting materials of commercial hybrids of orchid is an important mandate of the institute. Quality planting material would be produced through meristem culture (orchid hybrids) and as *in vitro* produced seedlings (species). The success will be measured in terms of number of good quality planting materials produced.

Objective 3: The bio-control agents and disease diagnostics are found to be efficient in experimental studies on insect pests and disease control and plant growth promotion will be identified based on phenotypic and biochemical parameters.

Objective 4: For effective transfer of orchid production technologies, it is proposed to organize various extension activities such as trainings, demonstrations, *kisan melas*, awareness camps, AIR/Doordarshan programmes, Seminars etc. The success will be measured in terms of number of events held.

Section 5: Specific Performance Requirements from other Departments

- Permission from State Biodiversity Boards for collection of orchids from natural habitats is mandatory for collection of orchid germplasm.
- Based on demand from different departments like National Horticulture Board, State departments of Hort./ Agriculture, NHM (DAC) and SAU's.

Section 6: Outcome/Impact of activities of Organisation/ Ministry

S. No.	Outcome/Impact of organisation /RCs	Jointly responsible for influencing this outcome/impact with the following organisation(s)/ departments/ministry(s)	Success Indicators	Unit	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14
1.	Production of quality seed and planting materials of orchids	DAC/SAU/HMNEH	Increase in commercial production of floricultural crops	%	1	1	2	2	3
2.	Technology development for enhancing livelihood security	State line departments	Number of new technologies adopted by orchid growers for enhanced productivity	Number	1	1	2	3	4
3.	Development of improved varieties including value added products	SAU's/ State line departments	Development of improved varieties for floricultural crops	Number	1	1	2	4	5