

Result Framework Document (RFD) 2014-2015

National Innovation Foundation- India

Ahmedabad

Section 1:

Vision, Mission, Objectives and Functions

Vision

To make India innovative and to add value to India's outstanding traditional knowledge base

Mission

To help India become an inventive and creative society and a global leader in sustainable technologies without social and economic handicaps affecting evolution and diffusion of green grassroots innovations.

Objectives

- To help India become an innovative and creative society and a global leader in sustainable technologies by scouting, spawning and sustaining grassroots innovations
- To ensure evolution and diffusion of green grassroots innovation in a selective, time-bound and mission oriented basis so as to meet the socio-economic and environmental needs of our society
- To provide institutional support in scouting, spawning, sustaining and scaling up grassroots green innovations as well as outstanding traditional knowledge and helping their transition to self supporting activities.
- To seek self reliance through competitive advantage of innovation based enterprises and/or application of "people generated sustainable technologies" at grassroots level
- To build linkages between excellence in formal scientific systems and informal knowledge systems and create a knowledge network to link various stakeholders through application of information technology and other means

- To promote wider social awareness, and possible applications, of the know-how generated as a result of these initiatives in commercial or social spheres and encourage its incorporation in educational curriculum, developmental policies and programs

Functions

To meet its objectives in scouting, awarding and incubation of grassroots innovations, NIF has set up six dedicated departments to execute innovation to enterprise development models.

- **Scouting & Documentation:** Seeking information about innovations and traditional knowledge practices from different parts of the country and documenting them adequately
- **Value Addition and Research & Development:** Engaging with technology students, research laboratories, institutions, designers, universities, etc for validation of and value addition in the grassroots technologies; providing product development support to the innovator
- **Business Development and Micro Venture:** Engaging with management students, marketing firms, institutions, to take the grassroots technologies to the market; providing risk capital to innovators for starting knowledge & innovation based enterprises
- **Intellectual Property Management:** Providing protection to the intellectual capital of the grassroots innovators/traditional knowledge holders by filing patents (within the country and abroad as well), design registrations, trademarks etc wherever applicable.
- **Information Technology Management:** Developing and updating databases and websites for data storage, retrieval and dissemination; helping scouting and documentation section in developing tools for dissemination; providing overall support to all other departments in all IT related aspects.
- **Dissemination:** Disseminating information about innovations and traditional knowledge practices, which do not have an intellectual property issue

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

Objective	Weight	Actions	Success Indicators	Unit	Weight	Target/Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
To help India become an innovative and creative society and a global leader in sustainable technologies by scouting, spawning and sustaining grassroots innovations	15	Organising Village innovation meetings in different parts of the country	Number of meetings organised	No.	2	60	45	30	20	10
		Village Knowledge Registers (VKRs)	Number of VKRs developed	No.	1.5	15	10	8	7	6
		National Campaigns	Number of Campaigns	No.	2.5	2	-	-	-	-
		Scouting of GRIs and TK	Number of ideas/innovations/tk scouted	No.	4	15000	10000	5000	3000	2000
		Verification/ Detailed documentation of GRIs & TK	Number of ideas/innovations/tk documented in detail	No.	5	3000	2500	1500	1000	800

To ensure evolution and diffusion of green grassroots innovations in a selective, time-bound and mission oriented basis so as to meet the socio-economic and environmental needs of our society	10	Acquisition of technologies for social dissemination	Number of technologies acquired	No.	3	10	8	7	5	4
		Participation in fairs, exhibitions, workshops, seminars, trade fairs etc	Number participated in	No.	3	35	25	15	10	5
		Organising exhibitions, workshops, road shows, competitions among students	Number organized	No.	3	20	15	10	7	5
		Demonstration of technologies and field trials	Number of demonstrations/ trials organized	No.	3	100	60	30	20	10
To provide institutional support in scouting, spawning, sustaining and scaling up	10	Reaching out to people: shodh yatra	Number of shodh yatras organised	No.	4	2	1	-	-	-
		Supporting Honey Bee Network volunteers	Number of volunteers/collaborators supported	No.	3	20	12	10	8	5

grassroots green innovations as well as outstanding traditional knowledge and helping their transition to self supporting activities.		Expanding the reach: scouts	Increasing the presence in different districts	No.	3	25	20	15	10	8
To seek self reliance through competitive advantage of innovation based enterprises and/or application of "people generated sustainable technologies" at grassroots level	15	Micro Venture support	Projects supported	No.	7	10	8	7	5	-
		Technology transfers/ renewals	Licensing undertaken	No.	6	10	8	5	2	1
		Packaging and branding exercise	Number of projects supported	No.	2	20	15	10	7	5

To build linkages between excellence in formal scientific systems and informal knowledge systems and create a knowledge network to link various stakeholders through application of information technology and other means	40	Incubation workshops and meetings	Number organized	No.	1.5	10	8	5	3	-
		Engagement of mentors	Number of projects for which mentors engaged	No.	1.5	50	40	30	20	10
		Formation and engagement of Student/ Honeybee clubs for augmenting innovations	Number of clubs engaged in schools, colleges and universities	No.	1	10	8	7	5	-
		Online catalogues	Number of catalogues	No.	1.5	80	60	40	30	20
			Number of online portals	No.	1.5	5	4	3	-	-
		Increasing website traffic for greater visibility	Number of unique/new visitors to the website(s)	%	1	75	60	50	40	30
		Prior Art Search	Detailed search on grassroots technologies	No.	2	600	500	300	200	100
		IPR protection	Successful filing of patents (PS/CS), design registrations, trademarks, reply to	No.	3	120	100	80	60	50

			FERs, etc							
		Validation of/Value addition in grassroots technologies	Project initiated/completed for validation of/value addition in technologies	No.	20	350	250	150	100	75
		Research Advisory Committee/Project Review Committee meetings (all including regional and national)	Number of RACs/PRCs	No.	2	10	8	7	5	3
		IGNITE Award function	Number of function	No.	2	1	-	-	-	-
To promote wider social awareness, and possible applications, of the know-how generated as a result of these initiatives in commercial or social spheres and encourage	10	Students internships	Number of projects given to the interns	No.	2	50	40	30	25	10
		Business plan competitions/projects	Number of projects for which business plan will be prepared	No.	2	25	20	15	12	10
		Supporting internal and external publication of success stories on innovations and outstanding tk, all	Successful and periodic publication of articles, booklets, stories, etc.	No.	1	150	100	75	50	30

its incorporation in educational curriculum, developmental policies and programs		India radio, doordarshan and other print/electronic media								
		Campaign advertisement in National and Regional newspapers	Successful publication	Date	3	31 July 2014	31 Aug 2014	30 Sep 2014	30 Nov 2014	-

**Section 3:
Trend Values of the Success Indicators**

Objective	Actions	Success Indicators	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Actual Value for FY 13-14	Projected Value for FY 14-15	Projected Value for FY 15-16
To help India become an innovative and creative society and a global leader in sustainable technologies by scouting, spawning and sustaining grassroots innovations	Organising Village innovation meetings in different parts of the country	Number of meetings organised	No.	28	35	55	60	65
	Village Knowledge Registers (VKRs)	Number of VKRs developed	No.	8	7	5	15	25
	National Campaigns	Number of Campaigns	No.	2	3	2	2	2
	Scouting of GRIs and TK	Number of ideas/innovations/tk scouted	No.	20000	22000	20470	15000	20000
	Verification/ Detailed documentation of GRIs & TK	Number of ideas/innovations/tk documented in detail	No.	1200	1800	2190	3000	3500
To ensure evolution and diffusion of green	Acquisition of technologies for social	Number of technologies acquired	No.	70	12	0	10	15

grassroots innovations in a selective, time-bound and mission oriented basis so as to meet the socio-economic and environmental needs of our society	dissemination							
	Participation in fairs, exhibitions, workshops, seminars, trade fairs etc	Number participated in	No.	42	29	30	35	40
	Organising exhibitions, workshops, road shows, competitions among students	Number organized	No.	18	15	20	20	25
	Demonstration of technologies and field trials	Number of trials / demonstrations organized	No.	35	45	70	100	120
To provide institutional support in scouting, spawning, sustaining and scaling up grassroots green innovations as well as outstanding	Reaching out to people: shodhyatra	Number of shodh yatras organised	No.	2	2	2	2	2
	Supporting Honey Bee Network volunteers	Number of volunteers/collaborators supported	No.	15	15	22	20	25
	Expanding the reach: scouts	Increasing the presence in different districts	No.	52	25	32	25	25

traditional knowledge and helping their transition to self supporting activities.								
To seek self reliance through competitive advantage of innovation based enterprises and/or application of "people generated sustainable technologies" at grassroots level	Micro Venture support	Projects supported	No.	10	9	6	10	10
	Technology transfers/ other business related facilitation	Marketing rights/ Licensing undertaken	No.	5	5	14	10	15
	Packaging and branding exercise	Number of projects supported	No.	9	8	12	20	25
To build linkages between excellence in formal scientific systems and informal knowledge	Incubation workshops and meetings	Number organized	No.	22	12	9	10	12
	Engagement of market research firms	Number of projects given to market research firms	No.	13	1	-	-	-

systems and create knowledge network to link various stakeholders through application of information technology and other means	Engagement of mentors	Number of projects for which mentors engaged	No.	25	45	55	50	60
	Formation and engagement of Student/ Honeybee clubs for augmenting innovations	Number of clubs engaged in schools, college and universities	No.	6	10	12	10	10
	Online catalogues	Number of catalogues	No.	55	96	75	80	100
		Number of online portals	No.	4	8	4	5	5
	Redesigning the website	Obtaining fully functional and user friendly design	Date	Oct 31, 2011	-	-	-	-
	Increasing website traffic for greater visibility	Number of unique/new visitors to the website(s)	%	62	72	73	75	75
	Prior Art Search	Detailed search on grassroots technologies	No.	325	450	570	600	600
	IPR protection	Successful filing of patents (PS/CS), design registrations, trademarks, response to FERs, etc	No.	297	100	119	120	150

	Validation of/Value addition in grassroots technologies	Grassroots innovations validated/value added	No.	120	240	335	350	350
	Research Advisory Committee meetings (all including regional and national)	Number of RACs, Expert Committee meetings, Project Review Meetings	No.	10	10	5	10	10
	Biennial Award Function	Number of function	No.	1	1	-	1	-
	IGNITE Award function	Number of function	No.	1	1	1	1	1
To promote wider social awareness, and possible applications, of the know-how generated as a result of these initiatives in commercial or social spheres and encourage its incorporation in	Students internships	Number of projects given to the interns	No.	70	65	35	50	65
	Business plan competitions	Number of innovations for which business plan prepared	No.	27	30	27	25	35
	Setting up of Information Diffusion Centers with Kiosks in different parts of the country	Fully functional deployment	Date	31 Oct 2011	-	-	-	

educational curriculum, developmental policies and programs	Supporting internal and external publication of success stories on innovations and outstanding tk, all india radio, doordarshan and other print/electronic media	Successful and periodic publication of articles, booklets, stories, Award books, stories in electronic media etc	No.	137	167	142	150	200
	Campaign advertisements in National and Regional newspapers	Successful publication	Date	August 2011 & Mar 2012	July 2012, Dec 2012 & March 2013	July 2013 Dec 2013 Mar 2014	July 2014 Nov 2014	July 2015 Dec 2015

Section 4:

Description and Definition of Success Indicators and Proposed Measurement Methodology

Although there are a few other organizations working in the area of innovation, there is no organization in India or abroad, which works on similar activities in informal sector covering the entire range of the activities from scouting and documentation of green grassroots innovations and traditional knowledge, to value addition, intellectual property protection, business development and social diffusion and commercialization. This scheme is unique in the sense that it picks up those innovative people (without any professional training or much education) who have been able to solve a technological problem in some measure through their own genius without any outside help. It is a scheme that builds upon the contribution of the Honey Bee network over the last twenty five years. The objective is to make India a global leader in sustainable technologies and build a national register of grassroots innovations and outstanding traditional knowledge.

Since the time of its establishment in February 2000, NIF has successfully put in place all the links/segments in the value chain required for achieving many of its stated objectives ranging from scouting to diffusing innovations through commercial and/or non commercial channels. There is no other organization in India or abroad that starts with identification of grassroots innovations and takes them to the stage of commercialization. Hence, no comparison can be made as NIF is a unique, stand alone organization. In fact, even organizations and other countries at the international level are trying to emulate and adopt the model evolved at NIF to suit their own socio-economic and cultural environments.

Some of the terms used by NIF to describe the creativity at grassroots are now used in common parlance at different platforms. Some of the terms that have been used are; people's innovation; grassroots innovations; community based innovations; farmers' innovations; artisanal innovation; household innovation etc. Any search on World Wide Web on these or related terms will reveal that no where, in India or abroad, there is available any database or illustrations of innovations and traditional knowledge by common people of the kind discovered and documented in India.

In regard to the above it is felt that the performance parameters of NIF are unique. These can only be measured and benchmarked against NIF's own performance in previous years with increase in activities and output in successive years.

Glossary related to some of our activities in context of our usage is given below. This shall be helpful to understand the annual trend values as given in Section 3 and the outcome/impact in Section 6 appropriately.

Scouting – is the first activity, which involves seeking/ finding out or locating grassroots innovators and traditional knowledge holders through various means/approaches

Documentation – it implies careful recording of the data (personal and technical) shared by the innovator/knowledge holder in writing, photo, audio and/or video

Detailed documentation – once a particular innovation/ herbal practice has gone through review(s), there may be some additional information sought by experts. Detailed documentation implies recording this data (technical) as per the requirements.

Validation – field trials, laboratory experiments, etc are set up to evaluate the performance parameters and the claims of the innovator/ knowledge holder

Value addition – Grassroots technologies, which are at an early stage of incubation i.e. at an idea level, proof-of-concept or prototype level, need optimization and technical inputs so as to improve efficiency, design, ergonomics, etc.

IPR protection – appropriate means of Intellectual Property protection are filed in the name of the innovator/ knowledge holder to protect his innovation/knowledge

Village Knowledge Register – is a database in local language of village level innovations and traditional knowledge along with other ecological and basic demographic data

Village Meetings – are organized to sensitise villagers about the importance of innovations, protection of functional traditional knowledge, share problems and seek solutions, innovation demonstrations, discussion session with innovators etc

Interns – are engaged to work on value addition, market research, business plan development projects. Mostly post graduate interns with background in engineering, design and management are selected.

MVIF – Under Micro Venture Innovation Fund (MVIF), investment is made in those innovative technologies for which either market does not exist or is limited. If the venture becomes successful, innovator is expected to pay back the loan amount with interest otherwise the loss is borne by MVIF

Section 5:
Specific Performance Requirements from other Departments

Department	Relevant Success Indicator	What do you need?	Why do you need it?	How much you need?	What happens if you do not get it?
ICMR (DHR)	Projects successfully completed	Scientific validation of innovator's claims and value addition in herbal practices. Setting up crude drug repository and herbarium of non codified plants	They have expertise and infrastructure	Their partnership will add value to herbal practices	NIF will seek alternatives
CSIR (DSIR)	Projects successfully completed	Scientific validation of innovator's claims and value addition in technologies	They have expertise and infrastructure	Their partnership will add value to technologies	NIF will seek alternatives
AYUSH	Database development of less common medicinal plants	Partnership in database development	They have network of institutions	Partnership will help in development of database	NIF will seek alternatives
ICAR (DARE)	Projects successfully completed	Scientific validation of innovator's claims and value	They have expertise and infrastructure	Their partnership will add value to	NIF will seek alternatives

		addition in technologies		technologies	
MSME	Projects on generating enterprises	Partnership	They have resource and network of SMEs	Partnership will expand our reach	NIF will seek alternatives
MNRE	Projects on validating and value adding	Partnership	They have resource, network	Partnership will help promote environment friendly innovations	NIF will seek alternatives
Ministry of Rural Development	Dissemination of technologies assisting rural development	Partnership	They have resource, network	Partnership will foster rural development	NIF will seek alternatives
Department of Post	Dissemination of technologies/ information	Partnership	They have network/reach	Partnership will foster wider and deep penetration	NIF will seek alternatives
Ministry of I&B (DD & AIR)	Dissemination of technologies/ information	Partnership	They have network/reach	Partnership will foster wider and deep penetration	NIF will seek alternatives
Ministry of Commerce (Spices Board, National Institute of Design etc)	Validation of and value addition in GRIs	Partnership	They have expertise	Partnership will help take forward GRIs in a robust and efficient manner	NIF will seek alternatives

Section 6: Outcome/Impact of activities of organization –

1	2	3	4	5	6	7	8
S. No.	Outcome/Impact of Organisation/RCs	Jointly responsible for influencing this outcome/impact with the following organization(s) / departments/ ministry(ies)	Success Indicators	2011-2012	2012-2013	2013-14	2014-15
1	Awareness about NIF campaigns and its incubation activities among people	-	Number of entries scouted/received as per Section 3	20000	22000	20470	
2	Creation of IP wealth for the grassroots people	-	Number of patents/design registrations/trademarks/PPVFR applications filed as per Section 3	297	100	119	
3	Venture risk capital to support entrepreneurship among people	-	Number & amount of MVIF investments as per Section 3	10 MVIF Projects; Rs 2168000 disbursed under MVIF	09 MVIF Projects; Rs 3095000 disbursed under MVIF;	06 MVIF projects; Rs 1450 000 disbursed	

4	Transfer of technologies/renewals		Number of technology transfers/renewals as per Section 3	5	5	14	
5	Scientific validation of innovators' claims, value addition, product development for social and commercial diffusion		Number of validated innovative technologies under different projects as per Section 3	120	240	335	
6	Recognition of grassroots innovators and school students at the national level		Number of innovators awarded	77 individual s and 3 communi ties	100 individuals and 5 communitie s	44 school students	
7	Grassroots innovations showcased in Innovation Exhibition at President House		Number of Grassroots innovations exhibited	54	57	41	
8.	Dissemination of grassroots innovation based technologies at rural areas		Number of innovations being tried/ diffused at different locations	-	25 in 7 states	27 in 7 states	