



# **Results-Framework Document (RFD)**

**for**

**National Institute of Research on Jute & Allied  
Fibre Technology**

**(2014 –2015)**

Address:12 Regent Park, Kolkata-700040

Website ID: <http://www.nirjaft.res.in>

## **Section 1: Vision, Mission, Objectives and Functions**

### **Vision:**

To uphold the cause of jute and allied fibres in favour of farmers, trade and industry keeping in view the prevalent global scenario and bring back the glory of the golden fibre with socio-economic uplift.

### **Mission:**

To utilize jute and allied fibres in wide and diverse areas by exploiting the intrinsic and advantageous properties of the fibres and converting the demerits whatsoever into merits by application of scientific tools through development of technologies, products and processes for the benefit of farmers and industries of both large and small scales.

### **Objectives:**

1. Technological support for quality improvement and assurance of jute, mesta and other allied fibres.
2. Development of technologies for diversified uses of plant fibres, by-products & industrial wastes, transfer of technology and capacity building.

### **Functions:**

- Working on jute as well as allied fibres and their agro and industrial residues
- Post harvest aspects and development of products out of jute as well as from allied fibres
- Research and development(R & D) activities on both woven and non-woven products to be used as domestic goods, disposable bags, floor coverings, geo-textiles, agro-textiles, other technical textiles and composites
- To deal with the problems of both large and small scale industries, organized and decentralized sectors and the farming community
- To function in close collaboration with industries and entrepreneurs on one hand and academic institutions on the other

## Section 2: Inter se priorities among Key Objectives, Success Indicators and Targets

Sl. No.	Objectives	Weight	Actions	Success Indicators	Unit	Weight	Target/Criteria Value				
							Excellent	Very good	Good	Fair	Poor
							100%	90%	80%	70%	60%
1.	Technological support for quality improvement and assurance of jute, mesta and other allied fibres	32	Technology support to jute breeders, industries & jute export houses	Breeder and commercial samples (fibre, yarn, fabric etc.) tested for quality evaluation	Number	28	408	340	272	204	136
			To fabricate grading aid instruments for farmers, industries and stake holders	New equipment fabricated for supply to stake holders	Number	4	7	6	5	4	3
2.	Development of technologies for diversified uses of plant fibres, by-products & industrial wastes, transfer of technology and capacity building	48	Development of new product/ machinery / instrument / technology	New product/ machine/instrument/ technology developed	Number	29	6	5	4	3	2
			Up-gradation/refinement of instruments/technology	Instruments/Technology refined/upgraded	Date	4	Jan 01, 2015	Jan 15, 2015	Feb 01, 2015	Feb 15, 2015	March 01, 2014
			Entrepreneurship development and training	Programmes organised	Number	15	18	15	12	9	6
*	Publication/Documentation	5	Publication of the research articles in the journals having the NAAS rating of 6.0 and above	Research articles published	Number	3	6	5	4	3	2
			Timely publication of the Institute Annual Report (2013-2014)	Annual Report published	Date	2	30.06.14	02.07.14	04.07.14	07.07.14	09.07.14

*	Fiscal resource management	2	Utilization of released plan fund	Plan fund utilized	%	2	98	96	94	92	90
*	Efficient Functioning of the RFD System	3	Timely submission of Draft RFD for 2014-2015 for Approval	On-time submission	Date	2	May 15, 2014	May 16, 2014	May 19, 2014	May 20, 2014	May 21, 2014
			Timely submission of Results for 2013-2014	On-time submission	Date	1	May 01, 2014	May 02, 2014	May 05, 2014	May 06, 2014	May 07, 2014
*	Enhanced Transparency /Improved Service delivery of Ministry/ Department	3	Rating from Independent Audit of implementation of Citizens'/ Clients' Charter (CCC)	Degree of implementation of commitments in CCC	%	2	100	95	90	85	80
			Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%	1	100	95	90	85	80
*	Administrative Reforms	7	Update organizational strategy to align with revised priorities	Date	Date	2	Nov 01, 2014	Nov 02, 2014	Nov 03, 2014	Nov 04, 2014	Nov 05, 2014
			Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC)	% of implementation	%	1	100	90	80	70	60
			Implementation of agreed milestones for ISO 9001	% Implementation	%	2	100	95	90	85	80
			Implementation of agreed milestones of approved Innovation Action Plans (IAPs)	% Implementation	%	2	100	90	80	70	60

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

Sl. No.	Objectives	Actions	Success Indicators	Unit	Actual Value for FY12/13	Actual Value for FY13/14	Target Value for FY14/15	Projected Value for FY15/16	Projected Value for FY16/17
1.	Technological support for quality improvement and assurance of jute, mesta and other allied fibres	Technology support to jute breeders, industries & jute export houses	Breeder and commercial samples (fibre, yarn, fabric etc.) tested for quality evaluation	Number	310	382	340	370	405
		To fabricate grading aid instruments for farmers, industries and stakeholders	New equipment fabricated for supply to stake holders	Number	4	7	6	6	7
2.	Development of technologies for diversified uses of plant fibres, by-products & industrial wastes, transfer of technology and capacity building	Development of new product/ machinery / instrument / technology	New product/ machine/instrument/ technology developed	Number	4	6	5	6	7
		Up-gradation/refinement of instruments/technology	Number of Instruments/technology refined/ upgraded under different projects	Number	##	##	Jan 15, 2015	Jan 15, 2016	Jan 15, 2017
		Entrepreneurship development and training	Programmes organised	Number	13	14	15	15	17
*	Publication/Documentation	Publication of the research articles in the journals having the NAAS rating of 6.0 and above	Research articles published	Number	##	##	5	7	7
		Timely publication of the Institute Annual Report (2013-2014)	Annual Report published	Date	-	-	July 02 2014	-	-
*	Fiscal resource management	Utilization of released plan fund	Plan fund utilized	%	99.73	99.78	96.00	98.00	98.00

*	Efficient Functioning of the RFD System	Timely submission of Draft RFD for 2014-2015 for approval	On-time submission	Date	-	-	May16, 2014	-	-
		Timely submission of Results for 2013-2014	On-time submission	Date	-	-	May 02, 2014	-	-
*	Enhanced Transparency /Improved Service delivery of Ministry/ Department	Rating from Independent Audit of implementation of Citizens'/ Clients' Charter (CCC)	Degree of implementation of commitments in CCC	%	-	-	95	-	-
		Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%	-	-	95	-	-
*	Administrative Reforms	Update organizational strategy to align with revised priorities	Date	Date	-	-	Nov 02, 2014	-	-
		Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC)	% of implementation	%	-	-	90	-	-
		Implementation of agreed milestones for ISO 9001	% Implementation	%	-	-	95	-	-
		Implementation of agreed milestones of approved Innovation Action Plans (IAPs)	% Implementation	%	-	-	90	-	-

## Success Indicators added this year onwards

#### Section 4(a): Acronyms

S.No.	Acronym	Description
1.	R & D	Research and Development
2.	NIRJAFT	National Institute of Research on Jute & Allied Fibre Technology
3.	EDP	Entrepreneurship Development Programme
4.	CRIJAF	Central Research Institute for Jute and Allied Fibres
5.	JCI	Jute Corporation of India
6.	NABARD	National Bank for Agriculture and Rural Development
7.	NGO	Non Government Organization

#### Section 4(b): Description and definition of success indicators and proposed measurement methodology

S.No.	Success indicator	Description	Definition	Measurement	General Comments
1	Breeder and commercial samples (fibre, yarn, fabric etc.) tested for quality evaluation	Quality evaluation of jute and allied fibres under various agricultural trials under “All India Network Research Project on Jute & Allied Fibres” finally aims to select varieties and treatments which produce fibres of good quality and also have good yield for variety release and treatment recommendation to the farmers. Commercial samples received from industries and export houses are also tested	Evaluation of physical and chemical parameters of fibre, yarn, fabric, composites, paper etc. for quality assessment	Number of samples	All the tests/evaluations are done as per the requirement of stakeholders following standard methods
2	New equipment fabricated for supply to stake holders	Jute grading instruments viz. Strength tester, fineness tester, colour and lustre meter, bulk density tester, yarn hairiness counter, thermal insulation tester etc. developed by NIRJAFT are fabricated against supply order	Instruments for determination of strength, fineness, colour, bulk density, hairiness, thermal insulation value etc. of fibre and fibrous structures (yarns, fabrics etc.)	Number of Equipments/ Instruments fabricated	Instruments developed at NIRJAFT are fabricated and supplied against order
3	New product/ machine/instrument/ technology developed	Technology/process development for new products from jute/allied fibres and their blends with fibres of natural and man-made origin using cutting edge technologies e.g., nano and bio	To diversify application of jute and allied fibres in value added applications and improvement of existing product range in terms of	Number of technologies	To utilize jute and allied fibres in wide and diverse areas by exploiting the intrinsic and advantageous

		technology, compact spinning etc. Designing of suitable textile structures for biocomposite geo/agro textile applications; machinery and instrument development for better process control	quality and production efficiency; upgradation of machineries and instrumentations for process control leading to superior products at higher efficiency		properties of the fibres and converting the demerits whatsoever into merits by application of scientific tools through development of technologies, products and processes for the benefit of farmers, artisans and industries of both large and small scales
4	Number of Instruments/Technology refined/ upgraded under different project	Institute has developed many instruments viz. Fibre Bundle Strength Tester, Fibre Fineness Tester, Moisture Metre, Jute Ribboner and these instruments are upgraded by interfacing with computers Institute has also developed many technologies in the field of jute & allied fibres. These technologies are refined/modified after certain duration	NIRJAFT instruments are upgraded for determination of different quality parameters of fibres NIRJAFT technologies are refined for preparation of quality products	Number of instruments & technologies upgraded or refined	NIRJAFT has upgraded/ refined number of instruments/technologies
5	Programmes organised	Frontline demonstration, field and industrial trial, training programmes, workshops, talk delivered, seminars, EDP	To commercialize the technologies, entrepreneurship development and to promote public-private partnership; it is envisaged to make awareness through training, demonstration, entrepreneurship development programme	Number of programme organised	These programmes are based on different technologies developed at the institute and are conducted for transferring technologies



**Section 5: Specific performance requirements from other departments that are critical for delivering agreed results**

<b>Location Type</b>	<b>State</b>	<b>Organisation Type</b>	<b>Organisation Name</b>	<b>Relevant Success Indicator</b>	<b>What is your requirement from this organisation</b>	<b>Justification for this requirement</b>	<b>Please quantify your requirement from this Organisation</b>	<b>What happens if your requirement is not met?</b>
Urban	Delhi	Govt.	Department of science and technology	New product/ machine/instrument/ technology developed	Project sponsorship	Broadening of our research areas	Two R&D projects	Have to search for alternative sponsors.
Urban	West Bengal	Govt.	Development Commissioner for Handicrafts	Programmes organised	Programme sponsorship and identification of trainees	For identification of proper/appropriate participants	Sponsorship of eight (8) programmes per year	To search for alternate organisations

**Section 6: Outcome / Impact of activities of Department /Ministry**

<b>Sl. No.</b>	<b>Outcome/Impact</b>	<b>Jointly responsible for influencing this outcome/ impact with the following organization(s)/ department(s)/ Ministry(ies)</b>	<b>Success indicator(s)</b>	<b>Unit</b>	<b>2012-2013</b>	<b>2013-2014</b>	<b>2014-2015</b>	<b>2015-2016</b>	<b>2016-2017</b>
1	Scientific grading of jute fibre	Ministry of textiles, Jute Industry, CRIJAF, JCI	Share of total jute fibre produced which is scientifically graded	%	4	4	5	5	5
2	Alternative products for jute/other industries	Jute Industry, National Jute Board, Cottage and Small Scale Industry	Enhancement of production of jute crop based diversified products	%	2	2	2.2	2.4	2.4
3	Human resource development	Ministry of Textiles, NABARD, NGOs	Skilled manpower developed	Number	110	200	300	400	500

### Target setting

S. No.	Success Indicators	Past achievements of the success indicators					Average	Projected value of the success indicator for 2014-15 as per the approved RFD 2013-14
		V 2009-10	IV 2010-11	III 2011-12	II 2012-13	I 2013-14		
1.	Breeder and commercial samples (fibre, yarn, fabric etc.) tested for quality evaluation	225	216	344	200	200	237	340
2.	New equipment fabricated for supply to stake holders	17	5	4	4	4	7	6
3.	New product/ machine/instrument/ technology developed	4	6	4	5	6	5	5
4.	Instruments/technology refined/ upgraded	2	2	4	5	6	4	1
5.	Programmes organised	7	19	20	10	10	13	15

**Classification of the success indicator according to its category**

<b>S.No.</b>	<b>Success Indicator</b>	<b>Input</b>	<b>Activity</b>	<b>Internal Output</b>	<b>External Output</b>	<b>Outcome</b>	<b>Measures Qualitative Aspects</b>
1.	Breeder and commercial samples (fibre, yarn, fabric etc.) tested for quality evaluation	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
2.	New equipment fabricated for supply to stake holders	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
3.	New product/ machine/instrument/ technology developed	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
4.	Instruments/technology refined/ upgraded	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
5.	Programmes organised	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE