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**Operation Guidelines for  
Jute - Improved Cultivation and  
Advance Retting Exercises  
(I-CARE) Scheme**

## Operating Guidelines for

### **JUTE – ICARE (Jute: Improved Cultivation and Advanced Retting Exercise)**

#### **Objective:**

The objective of the scheme is to support the small and marginal jute growers with adequate pre and post harvesting operations so that they can grow good quality jute & receive higher price for their produce. The scheme Jute I Care will also make the growers aware about the latest technologies in the country.

To institutionalize the use of scientific agronomic techniques and practices, which would be imparted to the jute growers, the following inputs shall be provided:

- 100% high yielding Certified Seeds at subsidized rate as recommended by ICAR-CRIJAF .
- Demonstration of scientific jute cultivation practices for adoption at farmers' field with mechanical intervention using seed drill / Nail Weeder / single wheel jute weeder.
- Demonstration of Microbial retting using “CRIJAF SONA”, a microbial consortium, and also NINFETSHATHI and IJIRA-SUBHRA .
- Construction of retting ponds through MNREGA, PMKSY (Watershed Management) and RKVY

#### **Activities :**

Sl. No.	Particulars
1	Distribution of Certified seed at 50% subsidy
2	Seed drill machine for demonstration
3	Nail Weeder machine for demonstration
4	CRIJAF SONA / NINFET SATHI for advanced retting
5	SMS / Advisories to be sent to each registered farmers
6	Sowing & Retting demo including farmers awareness programme by Scientist of ICAR-CRIJAF
7	Construction of retting ponds through MNREGA, PMKSY (Watershed Management) and RKVY

- **Retting Pond:** Jute retting is one of the important operations governing the quantity of the fibres as provided at present. Keeping in view the erratic distribution of rainfall non-availability of

community retting task declined per capita availability of water resources, high cost of cultivation and labour and dryness of river ponds / canals, farmers face problems of proper retting of Jute and Mesta. Due to retting with poor quality water and sometimes with insufficient water of Jute and Mesta, quality is effected and is not internationally competitive. To overcome such problem, construction of small retting pond in the farmers' field was advised by the scientists and accordingly Govt. of India issued advisory to construct such ponds through MNREGA, PMKSY (Watershed Management) and RKVY to State Govt. Farmers consent for land will be taken by the field supervisors of JCI and supply it to the State Government Department for construction of retting pond through MGNREGA and other schemes.

- Rs.5000/- per pond towards the one time maintenance cost will be transferred by JCI, directly to the farmers' bank accounts through DBT after completion of the retting pond and submission of a confirmation report from the JCI field officials / RMs alongwith bank details of the farmers, photographic evidence and GPS Coordinates of the retting ponds.
- **Training of farmers on use of Seed drill, Single Wheel Jute Weeder and use of CRIJAF-SONA/ NINFET-SATHI for retting:** ICAR-CRIJAF and ICAR-NINFET will carry out the training at fixed places and also develop lead users and master trainers who would transmit the usage protocol to further areas so as reach all the farmers concerned.
- Creating awareness and showing that the retting without use of soil / banana tree on the jack.

#### **ORGANISATIONS FOR IMPLEMENTATION OF THE SCHEME JUTE- ICARE**

The scheme Jute I-CARE, launched by NJB will be carried out in association with JCI, ICAR CRIJAF, ICAR NINFET, IJIRA etc. and will be governed by MoU (as annexed). JCI will register the beneficiary farmers in association with different farmers' societies, Co-operative bodies, PACS, KVKs, farmers' club under NABARD etc.

- A Monitoring Committee comprising the following members will monitor the progress and advice time to time:
  1. The Jute Commissioner- Chairman
  2. Secretary, NJB- Convener
  3. MD, JCI- Member
  4. Director, ICAR- CRIJAF- Member
  5. Director, ICAR-NINFET- Member

# MEMORANDUM OF AGREEMENT

## **JUTE – ICARE**

(Jute: Improved Cultivation and Advanced Retting Exercise)

### **PROJECT IMPLEMENTING AGENCY/IES**

- (1) **National Jute Board (NJB)**
- (2) **The Jute Corporation of India (JCI)**
- (3) **ICAR-Central Research Institute for Jute and Allied Fibre  
(ICAR-CRIJAF)**

**PROJECT FUNDED BY NATIONAL JUTE BOARD**

## **Background and Justification of the Project Jute- ICARE:**

Jute occupies a unique position as an eco-friendly, biodegradable and renewable natural fibre with a huge domestic market and export potential. Traditional cultivation practice of jute farmers results in largely low grade fibre because of non-scientific cultivation practice affecting plant growth and imperfect retting due to non-availability of suitable retting facilities and scarcity of water. Modern agronomic practices with quality inputs in three areas namely sowing, weeding, fibre extraction and retting are essential for increasing production as well as improvement quality fibre. It has been established that line sowing of jute using seed drill instead of broadcasting increases yield by 10-15%, requires less labour for weeding and thinning, better management of crop for faster growth and facilitates other post-sowing operations. Weed management in jute by wheel hoeing/nail weeder/ single wheel jute weeder instead of hand weeding plays an important role in increasing the profitability from jute farming by reducing the cost of weeding which is about 35% of total cultivation cost.

Among the various factors that influence the fibre quality retting and extraction have been identified to be the most significant in influencing quality fibre. It has been observed from last year project, that use of CRIJAF SONA, a microbial consortium not only improves the quality of fibre at least one grade but also increases fibre productivity by 10%..

**There is need for concerted efforts to reduce the costs of jute cultivation while improving the productivity and fibre quality for better price realization and value addition. The proposed project aims at mechanization in jute farming in a farmer-friendly way and accelerated retting using microbial consortium for higher income for jute farmers.**

### **Objective :**

The objective of the project is to support the small and marginal jute growers with adequate pre and post harvesting operations so that they can grow good quality jute & receive higher price for their produce. The continuation of the project will also make the growers aware about the latest technologies in the country.

To institutionalize the use of scientific agronomic techniques and practices, which would be imparted to the jute growers, the following inputs shall be provided:

1. 100% Certified Seeds at subsidized rate supplied by National Seed Corpn. Ltd. & ICAR-CRIJAF
2. Demonstration of scientific jute cultivation practices for adoption at farmers' field with mechanical intervention using CRIJAF multi row seed drill / CRIJAF Nail Weeder / CRIJAF Single wheel jute weeder.
3. Demonstration of Improved Microbial retting using "CRIJAF SONA", a microbial consortium.

### **Components:**

1. Line sowing using CRIJAF multi row seed drill.
2. Use of certified jute seed for better results
3. Weeding using CRIJAF nail weeder / CRIJAF Single wheel jute weeder.
4. Implementation of protocol for scientific cultivation of jute for cost reduction.
5. Application of CRIJAF SONA in traditional retting practice for improvement of quality of fibre.
6. Examining various retting technologies of NIRJAFT & IJIRA on pilot basis.

## **Target of the Project :**

The targets of the project proposed to be achieved at the end of the project are:

- a) **Production improvement of jute by at least 10% from current production**
- b) **Grade improvement of jute by at least one grade**
- c) **Cost reduction in cultivation by 8,000/- to 10,000/- per hectare including labour saving.**
- d) **Indicative increase in farmer's income by approximately 13000/- per hectare due to higher production and quality improvement.**

## **Project Hindrances & Impact:-**

There are two major variables

- a. **Rainfall:** Jute is a water intensive crop. Sufficient rainfall at intervals is required during jute growing season. Post-harvest retting of jute also requires rainfall for adequate availability of water in canals, ditches, etc. in which jute is retted and washed by farmers. Shortfall as well as excess in rainfall in a jute season affects the production and quality of jute to a great extent.
- b. **Farmers' training:** Most farmers follow age old cultivation practice and conventional stem retting with inadequate retting facilities. Farmers traditionally have not adopted scientific methods of cultivation and retting.

## **Activities :**

1. **Selection of jute growers:** Selection of jute growers and their field locations.
2. **Training of farmers:** Farmers' training prior to seed distribution (training should start 15-20 days before seed distribution) to make them conversant of better agronomic practices.
3. **SMS:** NJB will send SMS to all registered farmers starting from certified seeds, land preparation, sowing, de-weeding, plant protection, retting etc. to educate the growers. ICAR-CRIJAF will help for preparation of data for SMS. Also IVRS may be implemented.
4. **Distribution of certified jute seeds: 100%** Certified jute seed of new variety supplied by NSC & ICAR-CRIJAF & the same will be distributed to the growers at 50% subsidy. This would ensure better quality of plants.
5. Promotion and Awareness creation on Jute-ICARE practices, by miking, leaflet, banner, audio visual multimedia etc. and focus groups other promoting material ATMA etc.
6. **Distribution of sowing equipments:**
  - i) **CRIJAF Multi Row Seed Drill:** Line sowing by multi row seed drill is an improved practice of sowing in which requirement of seeds half or even less than that is required for conventional broadcasting practice of sowing jute seed. Row to row spacing in line sowing

is maintained at 25-30 cm. while plant to plant spacing is 5-7 cm. This reduces labour cost for thinning and weeding in comparison to that for conventional broadcasting in sowing and gives better yield of fibre.

- ii) **Single Wheel / CRIJAF Single wheel jute weeder / CRIJAF Nail Weeder:** Jute cultivation in rainy season is prone to heavy weed growth. The operation-wise cost is about 35% on manual weeding and thinning. Weed management using jute Weeder in inter-rows controls the weeds, conserve soil moisture, enhance soil aeration particularly in heavy textured soil and reduces the labour cost significantly.

**With the idea of initiating farmers' interest in using these machines and adopting to the ease and benefits of this new application and method the machines will be given free of cost in .....with limited number for demonstration and uses.**

6. **Distribution of CRIJAF SONA:** For optimisation of retting protocol a microbial consortium developed by ICAR-CRIJAF and named as 'CRIJAF SONA' will be distributed to farmers free of cost. Orientation programme will also be arranged for farmers on use of the microbes and getting best result out of it. NINFET SATHI of NINFET or any subsequent development by IJIRA will also be tried in the field for retting.
7. **In-situ Jute Retting Pond:** Jute retting is one of the important operations governing the quantity of the fibres as provided at present. Keeping in view the erratic distribution of rainfall non-availability of community retting task declined per capita availability of water resources, high cost of cultivation and labour and dryness of river ponds / canals, farmers face problems of proper retting of Jute and Mesta. Due to retting with poor quality water and sometimes with insufficient water of Jute and Mesta, quality is effected and is not internationally competitive. To overcome such problem, construction of small retting pond in the farmers' field was advised by the scientists and accordingly Govt. of India issued advisory to construct such ponds through MNREGA, PMKSY (Watershed Management) and RKVY to State Govt. Letter to Chief Secretaries and respective Nodal Officers by the Secretary (Textiles) and the Secretary MOT circulated to field level officials of JCI for immediate contact with the District level officials. Block Supervisors and Master Trainer involved in Jute-ICARE programme also deputed for the purpose. NJB shall monitor and coordinate with the respective stakeholders.
8. **Training of farmers on use of Seed drill, Single Wheel Jute Weeder and use of CRIJAF SONA & NINFET SATHI for retting:** ICAR-CRIJAF / NINFET SATHI will carry out the training at fixed places and also develop lead users who would transmit the usage protocol to further areas so as reach all the farmers concerned.
9. Creating awareness and showing that the retting without use of soil / banana tree on the jak.
10. **Quality evaluation of jute fibres** obtained from conventional retting as well as retting with CRIJAF SONA/NINFET SATHI for comparison by IJT/ IJIRA/NIRJAFT.

## 11. Preparation and submission of final report.

### **Activity Schedule & Timeline:**

Enclosed in **Annexure – I**

**The details of physical progress of previous Jute- ICARE is enclosed in Annexure-II.**

### **Project Jute- ICARE, Phase--**

Looking to the success of the of the project Jute-ICARE National Jute Board (NJB) has taken initiative for replication of the 6<sup>th</sup> phase of the project covering all jute growing states like West Bengal, Assam, Bihar, Odisha, Andhra Pradesh, Meghalaya & Tripura. The **target fixed** for Phase- is to cover approx..hectares of land and approx... farmers.

## **ORGANISATIONS FOR IMPLEMENTATION OF THE PROJECT JUTE- ICARE, PHASE-VII**

The project Jute I CARE, Phase-- launched by NJB will be carried out in association with JCI, ICAR-CRIJAF and different farmers Co-operative bodies, PACs, KVKs, farmers club under NABARD etc. As directed by HMOT participation of state Govt. of Jute growing States in the Jute-ICARE Programme may also be ensured.

As advised by Secretary (Textiles), Jute Mills who have some infrastructures in rural level may also be associated in Jute-ICARE programme and they will be supplied certified jute seeds, machineries and CRIJAF-SONA for implementation of Jute-ICARE to the registered farmers selected by them. Training to the registered farmers also be given by Scientist of ICAR-CRIJAF.

## **Duties & responsibilities of respective organizations under Project Jute – ICARE, Phase-VII**

### **1. National Jute Board (NJB)**

- a) Carry out the Jute – ICARE project as per guidance of the Monitoring Committee and convene implementation committee meeting as and when required for the project phase-VII.
- b) To co-ordinate with all the organizations involved in the project Jute – ICARE.
- c) Co-ordinate with and involve state government and local agencies as deemed fit.
- d) To monitor and coordinate regularly with all stakeholders for construction of retting ponds.
- e) To convene monitoring and implementation committee meetings on regular basis.
- f) To make available farmers' registration, feedback and other formats to JCI.
- g) Review on feedback received from JCI, ICAR-CRIJAF and other agencies and will take necessary timely required action.
- h) Preparation of messages for broadcast of bulk SMS to farmers in local languages.
- i) Disseminate needed information/ inspection/ monitoring/ advice- on activities etc.
- j) Also provide necessary directives on distribution of 'CRIJAF SONA' / NINFET SATHI among farmers.
- k) Facilitate release of funds to the agencies as per the committee guidelines.



- l) Co-ordinate information flow and report/seek guidance of Monitoring Committee.
- m) Protect the farmers' interest and ensure reaching them the agreed resources.

## **2. The Jute Corporation of India Ltd., (JCI)**

- a) Finalization areas of project operation in consultation with NJB, ICAR-CRIJAF and local agencies.
- b) Co-ordination with District Administration, local agencies, convene meetings.
- c) To instruct Block Supervisors / Maser Trainers and field officials of JCI for speedy construction of retting ponds through jute growing State Govts.
- d) Printing of farmers' registration, feedback and other formats as obtained from NJB.
- e) Registration of the farmers through DPC/local agencies in the project jute – ICARE as done in previous years. Every year only additional farmers will be registered.
- f) Preparation of data base from registration form at the local level on hiring basis/ compilation of registration and feedback to NJB. JCI will maintain hard copy of farmers registration for proper record keeping.
- g) Procurement of certified jute seeds from NSC & ICAR-CRIJAF and distribute through local agencies (Co-operative bodies/NGO etc) to the registered farmers (distribution will be in form of 1 kg bag approximately at the ratio of 6 kg/hectare) and obtained utilisation certificate from the local agencies. Seed distributor shall have required seed licence as per the relevant Govt. norms and direction.
- h) Procurement of Multi row Seed drill and Single Wheel Jute / Cycle / Nail Weeder on certification of vendor/ price/ transport rate etc. by ICAR-CRIJAF. JCI will release payment to the vendors. JCI will hand over the machines/tools permanently to the local agencies for the use of the enlisted farmers. JCI will also maintain history sheet for all these equipments.
- i) To plan and implement effective publicity program in all the project area in consultation with NJB.
- j) On certification of quantity, quality, price (including transportation) etc. by ICAR-CRIJAF, JCI will procure 'CRIJAF SONA' and make payment to vendor/ supplier. Issue necessary directive to ICAR-CRIJAF approved vendors for despatches of 'CRIJAF SONA' to destination i.e. JCI's DPC. Receive of CRIJAF SONA and supply through local agencies to the registered farmers and obtain utilisation certificate from local agencies. JCI may regularly review production, quality and amount of CRIJAF-SONA, Single Wheel Jute / CRIJAF Single Wheel Jute Weeder / CRIJAF Nail weeder, CRIJAF multi row seed drill and seed etc., being produced and take effective steps to avoid supply and demand gaps by involving NJB & ICAR-CRIJAF.
- k) Facilitate ICAR-CRIJAF to prepare schedule on demonstration and training program for farmers and execution thereof.
  - l) To report crop situation and time to time feedback for the Monitoring Committee.
  - m) Distribution and compilation of filled-up feedback form of farmers.
  - n) Obtain fund from NJB for the various approved activities.
  - o) Timely submit expenditure statement and audited utilization of funds to NJB
  - p) To submit data gathering and compile feedback report periodically to NJB.
  - q) To arrange implementation of Jute-ICARE-VI at Meghalaya by JCI itself or through farmers representatives of local area and also in association with State Govt.
  - r) To monitor Tossa Jute cultivation at Amadalavalasa in Srikakulam District in association with Mesta Research Institute (ICAR) and Acharya N. G. Ranga Agriculture University, Andhra Pradesh

### **3. ICAR-CENTRAL RESEARCH INSTITUTE FOR JUTE AND ALLIED FIBRES (ICAR-CRIJAF)**

#### **(A) Duties & responsibilities**

- i. To technically assist NJB to carry out trainers' training preferably at ICAR-CRIJAF and in limited occasions at field locations on improved jute production technology comprising of (i) use of CRIJAF multi row seed drill, (ii) use of CRIJAF Single Wheel Jute weeder / CRIJAF Nail Weeder, (iii) integrated weed & water management, (iv) balanced nutrition (macro & micro) for jute, (v) crop protection measures and (vi) improved microbial retting of jute by CRIJAF Sona.
- ii. To assist NJB for correcting/ improving the SMS content compiled by NJB before delivering to the registered farmers of the project.
- iii. To assist NJB/ JCI by providing Crop Protection Information Advice after receiving the infected plant parts/ quality photos collected by the field staffs of the project or after visiting the affected fields by ICAR-CRIJAF Scientists/ technical persons through official tour.
- iv. To arrange quality/ CFU count testing of batch samples of CRIJAF Sona through Senior Research Fellows (*to be engaged*) before delivery and distribution to the farmers.
- v. For documentation of Jute-ICARE activities including In-situ Jute Retting Pond, GIS mapping.
- vi. To assist NJB/ JCI technically to prepare the jute retting demonstration schedule and also to conduct field demonstrations of the improved microbial jute retting by CRIJAF Sona.
- vii. To technically assist NJB for preparation/ development of extension literature in physical and electronic form for use by the farmers of Jute-ICARE.
- viii. To assist NJB for finalization of the technical part of the Project Completion Report.
- ix. ICAR-CRIJAF may regularly review production and quality amount of CRIJAF-SONA, Single wheel Jute weeder, seed drill and seed etc., being produced and take effective steps to avoid supply and demand gaps by involving NJB & JCI.
- x. To take preventive and corrective measures during the crop cultivation in case of early flowering, infected with pests etc. and monitor the health of the crop under Jute-ICARE programme regularly.

#### **(B) General conditions to be fulfilled**

- i. Scientists and officers/ staffs of ICAR-CRIJAF will technically assist the trainings/ demonstrations/ monitoring as resource person or as technical expert. All physical arrangements for conducting training/ demonstration / monitoring etc. are to be arranged by NJB/ JCI personnel.
- ii. The Scientists, technical staffs or other staffs of ICAR-CRIJAF who will be deputed for any activity in Jute-ICARE programme that involved tour beyond 8 km from their place of posting (here ICAR-CRIJAF) will be paid to & fro travelling charges, hotel accommodation and food charges from the Jute-ICARE fund as per their respective class/ category of entitlement.
- iii. The tour involving any scientist/ officer/ staff of ICAR-CRIJAF need to be planned well ahead as far as practicable and the same need to be scheduled in consultation of the concerned officer/ persons so that any pre-scheduled institute activity is not hampered.

- iv. Unskilled / semi-skilled / skilled workers hired by ICAR-CRIJAF for field demonstration of technologies in the Jute-ICARE area will be paid transportation and other costs by the NJB / JCI / organizer of the tour on actual basis.
- v. For tour, the hotel accommodation, lodging and local transport for the scientists/ staffs of ICAR-CRIJAF may be arranged and borne as per their entitlement by the controlling officer of NJB / JCI or organizer of the tour.
- vi. The Scientists and other staffs of ICAR-CRIJAF will be paid honorarium per location for their involvement/ role in training, demonstration, monitoring, field visit and other associated assistance in the activities of Jute-ICARE in the villages/ implementing locations as per Table 1. However, in case of training at ICAR-CRIJAF (HQ) honorarium will be given on per lecture basis.
- vii. For field demonstration of technologies, assistance of unskilled / semi-skilled/ skilled labour (if required in specific situation) will be hired and deputed as per need. They will be paid honorarium as per the rates prescribed (Table 1) by the controlling officer of NJB / JCI or organizer of the tour. If tour and overnight stay is required by the hired unskilled, semi-skilled and skilled workers, the transportation, accommodation and foods charges for them are to be borne by the organizer namely NJB/ JCI as the case may be.
- viii. NJB will permit ICAR-CRIJAF to hire technically competent persons as the Senior Research Fellow/ or to continue the existing SRFs for the quality/ CFU count test of CRIJAF Sona at commercial production site/ or at location desired by ICAR-CRIJAF. The qualification/ experience, hiring procedure and remuneration for the SRFs will be decided by ICAR-CRIJAF as per the guidelines/ orders in force. For documentation of Jute-ICARE activities including In-situ Jute Retting Pond, GIS mapping, a Senior Research Fellow with specialization in database, GIS etc. is proposed at ICAR-CRIJAF for the year 2021-22. The incumbent will also report thrice a week to NJB and JCI for collection of data. The total calculated remuneration for both the SRFs (old) + newly proposed SRFs are to be deposited by NJB at one time to ICAR-CRIJAF for payment of their monthly remuneration. The SRFs will be engaged initially for 12 months and hiring period may be extended if required. Besides that, a contingency fund for purchase of chemicals etc. and for contractual persons for quality check of CRIJAF Sona at the laboratory will be provided by NJB.
- ix. As per ICAR guidelines, ICAR-CRIJAF will be paid Institutional Charges @ 20% of the total project cost earmarked for ICAR-CRIJAF.
- x. ICAR-CRIJAF will also help for making a website of Jute-ICARE and making video films of JUTE-ICARE programme with their technical assistance, the cost of making website and videos already taken care of Jute-ICARE.
- xi. Promotional materials/contents if any with respect to the impact of the technologies included in JUTE-ICARE programme prepared by NJB must be done in consultation/consent of ICAR-CRIJAF.

**Table 1. Rates of honorarium for Scientists / staffs of ICAR-CRIJAF and unskilled / semi-skilled/ skilled workers hired by ICAR-CRIJAF for Jute-ICARE programme activities in the fields/ implementing locations**

<b>Designation</b>	<b>Rate of honorarium ( in Rs.)</b>
Supporting staff / Unskilled workers	500/-
Technical / semi-skilled / skilled workers	800/-
Scientist / Sr. Scientist/ Principal Scientist	1500/-

\* The rate may vary/ enhance by any future order and then the modified rate will be applicable

**Table 2. Remuneration to be paid to the engaged SRFs & Contingency fund for analytical work for CRIJAF Sona, Documentation of Jute-ICARE activities & GIS mapping and contractual person engaged in the laboratory**

<b>Sl. No.</b>	<b>Category</b>	<b>Rate per month**</b>	<b>Hiring period</b>	<b>Total</b>
1	Senior Research Fellow (2 nos.)	Rs.43,400/-	12 months	Rs.10.40 lakh
2.	Senior Research Fellow (1 no.) newly proposed	Rs.36, 270/-	12 months	Rs. 4.35 lakh
3.	Contingency fund as cost of chemicals etc. & contractual for quality check of CRIJAF Sona	-	-	Rs. 4.20 lakh
<b>TOTAL (Rupees Eighteen lakhs ninety five thousand only)</b>				<b>Rs.18.95 lakh</b>

\*\* The rate per month may vary/ enhance by any future order and then the modified rate will be applicable. The rate per month includes existing rate of remuneration for SRF including HRA as per ICAR guideline.

**Responsibility Matrix:**

<b>Sl. No</b>	<b>Activity</b>	<b>Responsibility</b>	<b>Time frame</b>
1	Identification of farmers and distribution of forms along with maintenance of numbers of farmers and area of cultivation.	JCI	February'2021

2	Collection of forms and data entry along with details as stated in Sl. No.1 above.		
3	Construction of retting pond in the jute growing states through state Govts. (MNGREGA, PMKSY & RKVY)	JCI & NJB	January 2021 to December 2021
4	Recruitment & Training of Block Supervisors & Master Trainers for implementation of ICARE programme in village / Block level.	JCI in association with NJB and ICAR-CRIJAF	One or two training at ICAR-CRIJAF including field demonstration
5	Placing of order for seed drills and weeding machines, schedule of delivery, quality checks, transport, distribution mechanism	JCI in consultation with NJB will Procure Multi row Seed drill and Single Wheel Jute Weeder on certification of vendor/ price/ transport rate/quality etc by ICAR-CRIJAF. JCI will release payment to the vendor and will hand over machines/ tools to local agencies permanently for use of enlisted farmers.	January-February'2021
6	Placing of order for certified seeds, transport, stocking, distribution	As per MoU signed between NSC, JCI & NJB	January'2021
7	Training of master trainers (PACS members) / farmers regarding use of seed drill and single jute weeder machine	ICAR-CRIJAF in association with NJB and JCI	February-April 2021
8	Procurement of CRIJAF SONA, storage and distribution and all-out effort for uses of CRIJAF SONA by farmers and area-wise awareness for not to use mud / banana tree by miking / banner etc.	JCI in consultation of NJB will procure CRIJAF SONA / NINFET SATHI from the ICAR-CRIJAF / NINFET certified vendors on certification of price including transport rate/quality etc. by ICAR-CRIJAF / NINFET. The ICAR-CRIJAF / NINFET certified vendors will arrange supply of CRIJAF SONA / NINFET SATHI to the project location. JCI will receive and supply CRIJAF SONA through local agencies to the registered farmers. Local agencies will provide utilisation certificate to JCI.	May- October' 2021
9	Fibre testing	JCI in consultation with NJB through IJIRA/IJT/NIRJAFT	October'2021
10	Monitoring of plant growth, harvesting and retting	ICAR-CRIJAF / JCI will report to NJB	Fortnightly after sowing to retting

11	Analysis of data and publication	NJB in association with JCI and ICAR-CRIJAF On getting feedback report from JCI	End of November, 2021.
12	Budget, flow of funds	NJB	As per scheme & requisition for respective stake holders
13	Preparation of final report	ICAR-CRIJAF On receipt of feedback from JCI	December'2021
14	Creation awareness on ICARE and construction of retting pond	Using miking, distribution of leaflet, banner, multimedia, SMS, WhatsApp group formation etc. – by JCI & NJB	February to December 2021

**Estimated Budget as decided in the implementation committee**

**Project period for 12 months**

	<b>Item</b>	<b>Rs. Unit</b>	<b>Estimated Expenditure (Rs.) (Funded by NJB)</b>	<b>Expenditure made directly by NJB (Rs.)</b>	<b>Expenditure to be made through JCI** (Rs.)</b>	<b>Expenditure to be made through ICAR-CRIJAF* (Rs.)</b>	<b>Remark</b>
1.	<b>Mechanical Inputs :</b> Sowing kits (CRIJAF Multi Row seed Drill). Weeding Kits (CRIJAF Single Wheel Jute Weeder machine).						JCI will place order to CRIJAF approved supplier. Payment will be made by JCI on certification of price including transport rate & quality of the machines by CRIJAF.
2.	<b>Jute Seed</b> Jute seed						As per agreed price with JCI & NSC, prices of jute seeds will be fixed for NJB also.  Jute seed procured from ICAR-CRIJAF & NSC will be sold by JCI on 50% subsidy to the

							farmers. 50% subsidy and amount will be reimbursed.
3	<b>CRIJAF SONA NINFET SATHI</b> <b>Or any other developed materials</b>						JCI will place order to ICAR- CRIJAF/NINFET approved supplier. Payment will made on certification of price including transport rate & quality of the CRIJAF SONA/NINFET SATHI by ICAR- CRIJAF/ NINFET
4.	<b>Project Monitoring and Supervision:</b> Man power cost						Remuneration for Block Supervisor & Master Trainer including HR Consultant Fees and different charges for implementing ICARE through agencies like PACS/Co-operatives/ Farmers Club etc. as decided by JCI  Basis of CRIJAF allotment. SRF (2+ 1 Nos.) for 12 months Contingency Fund for Chemicals & Contractual persons and total honorarium for Scientist
5	<b>Administrative cost of Construction of retting pond through MNGREGA, PMKSY ETC.</b>						
6	Estimated labour and transport charges for local						

	transportation of seeds, machines, distribution of CRIJAF SONA by small vehicle on daily basis and other inputs.						
7	Fiber Testing and Grading						
8.	Meeting / workshop / training & demonstration to farmers						Including food and lodging of touring officials for training and demonstration by JCI. Expenditure on in house training by ICAR-CRIJAF.
9	Travel Expenditures						
10	Bulk SMS / Voice messages						
11.	Stationery, printing, communication, etc.						
12.	Banner, miking Documentation, video, photograph etc. and making of video / technical film by ICAR-CRIJAF						
13	Pilot scale jute (Tossa) cultivation in Amadavalasa, A.P						To be paid by JCI to ANG. Ranga University on requisition receipt from ARS, Amadalavalasa
14	Implementation cost for JUTE-ICARE VI at Meghalaya						To reimburse implementation cost to the farmers representative or any agency for implementation of Jute-ICARE-VI
15	An android based App to be prepared by						ICAR-CRIJAF will complete the work before starting of Jute-



	ICAR-CRIJAF by out sourcing as they already done for Jute cultivation i.e. 'JAF-Safe'						ICARE-6 for retaining datas.
16	Contingency and miscellaneous expenditures including JCI's O/H, @ 5% approx of project cost towards supervision & manpower incl. project cell for monitoring NJB's project. Institutional charges for ICAR-CRIJAF	-					
	<b>Grand Total</b>						

\*ICAR-CRIJAF will finalize the rate of seed drill, cycle weeder and CRIJAF SONA and inform to JCI & NJB the quantity of order of their vendor.

\*\*JCI will issue purchase order as per ICAR-CRIJAF's information to the vendors.

Note: Head wise allocation of funds can be adjusted with other heads based on review upon consideration and approval by IC. . The audited Utilization Certificate of expenditure to be submitted by JCI

### **Schedule of Payment**

Item No. of Estimated Budget	Particulars	Amount (%)	Payable to
1	Concurrent to placing of order on vendor	100	JCI
2	Concurrent to placing of order on vendor	100	JCI
3	Concurrent to placing of order on vendor	100	JCI
4-12	a) On signing the MOA and submission of requisition	50%	JCI
	b) Balance on submission of Final Statement for relevant item for item nos. 4, 8 & 12.	50%	
	c) Balance on submission of overall final statement on completion of project for item	50%	

	nos. 5,6,7,10 ,11, and12		
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**The respective agencies** herein above will bind themselves to the provision of the scheme on Jute, Improved Cultivation and Advanced Retting Exercise (Jute-ICARE) and will execute the respective responsibilities towards its success.

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**Signature & Seal of  
Secretary, NJB**

Date:

\_\_\_\_\_  
**Signature & Seal of  
MD, JCI**

Date:

\_\_\_\_\_  
**Signature & Seal of  
Director, ICAR-CRIJAF**

Date: