

MEMORANDUM OF UNDERSTANDING

The Memorandum of Understanding (this "MOU") is entered into on 12.12.2019 (the "Effective Date") by and between

NATIONAL RAINFED AREA AUTHORITY (NRAA), MINISTRY OF AGRICULTURE
AND FARMERS WELFARE, GOVERNMENT OF INDIA

AND

INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR)-CENTRAL
AGROFORESTRY RESEARCH INSTITUTE, JHANSI

RECITALS

WHEREAS, National Rainfed Area Authority (NRAA) has been formulated for systematic up-gradation and management of country's dry land and rainfed agriculture. The NRAA vision is to promote prosperity of farmers and ensure inclusive growth in rainfed areas of the country on a sustainable basis. The NRAA has six major areas of focus point: (i) Networking and coordination with the key ministries of Agriculture and Farmers Welfare, Rural Development, Water Resources, Environment and Forests and Panchayati Raj, (ii) Focus on convergence, coordination, value addition, capacity building and monitoring and Evaluation, (iii) Meeting challenges of emerging policies, technologies, marketing, social and economic changes, (iv) IT enabled project planning and management, (v) Pilot projects for upgrading rainfed system in selected high priority areas.

WHEREAS Central Agroforestry Research Institute - ICAR, Jhansi (ICAR-CAFRI), is engaged in implementation of Pilot Research Project titled "Assessment of genetic potential of neem germplasm for higher yield and oil content through molecular markers" under National Rainfed Area Authority (NRAA).

WHEREAS, the parties held discussion for exploring the possibility of collaborations for achieving the objectives of the National Rainfed Area Authority (NRAA).

WHEREAS, Parties prima facie have agreed to align, collaborate and cooperate with each other for implementation of Pilot Research Project titled "Assessment of genetic potential of neem germplasm for higher yield and oil content through molecular markers" under National Rainfed Area Authority (NRAA).

WHEREAS, the Parties have agreed to widen the scope and scale of the collaboration and cooperation, if necessary, so as to include such other areas not included or indicated in the MoU by amending this MoU through extensive discussions and negotiations with each other.

NOW THEREFORE, the Parties intending to express their mutual agreement hereby to enter into this Memorandum of Understanding dated 12.12.2019 for undertaking the following tasks/activities.


निदेशक/Director
के.क.एस. संस्थान, झांसी (उ०प्र०)
C.A.F.R.I., JHANSI (U.P.)

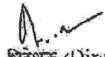


SCOPE

- i. There is immense potential of neem based products in India, which can be tapped for its medicinal uses, as component of agroforestry and for integrated rural development programme.
- ii. The neem based value added products are rolled out through village based industries.
- iii. Neem genetic improvement is of paramount importance with respect to higher seed yield and quality of seed.
- iv. This project will critically evaluate the neem germplasm for higher kernel yield and oil content for selection of the prominent lines for neem genetic improvement.
- v. This project will give the scientific validation of best germplasm and recommendation of suitable genotypes for various agro-climatic zones of rainfed ecosystems.
- vi. The suitable planting material produced in this project will provide additional livelihood opportunities to the rainfed farmers from marketing perspective, which ultimately will enhance their income.

PROJECT -TIME PERIOD AND RELEASE OF FUNDS

- i. The period of the project is three years from the date of release of 1st Instalment.
- ii. The total project cost is Rs. 21, 94,500 (Twenty One Lakh Ninety Four Thousand and Five Hundred Rupees Only). Funds shall be released on instalment basis. For the financial year 2019-20, an amount of Rs. 3 Lakh shall be released, and rest of the amount shall be released in the subsequent financial years.
- iii. The project will be operationalized as per the schedule and time line of the identified activities (Annexure-A)
- iv. The action plan for each year of implementation needs to be indicated well in advance by ICAR-CAFRI, Jhansi so as to facilitate arrangement of resources for the same;
- v. Any deficiency in response to activity schedule and Annual Action Plan will have to be justified and the corresponding course of action need to be finalised by the Coordinating Group;
- vi. The project shall be reviewed on half-yearly basis by the Technical Monitoring Committee (TMC) of NRAA, constituted under the Chairmanship of CEO, NRAA. The review will be based on the milestones achieved as indicated in the technical proposal;
- vii. The next instalments shall be released based on the submission of Utilization Certificate of funds released in the previous instalment(s) and on receipt of satisfactory detailed milestone wise progress of the released amount;
- viii. The interim report of the study needs to be submitted by the end of the year 2020-2021 for appraisal by Standing Technical Committee;
- ix. ICAR-CAFRI, Jhansi shall provide 25 copies of the final report by end of the project period;


निदेशक/Director
के.एम.अ. ज. प्र. क्षेत्र (उत्तर)
ICAR-CAFRI, JHANSI (U.P.)

 3

- x. ICAR-CAFRI, Jhansi needs to develop a withdrawal strategy for maintenance of assets created under the project and shall continue keeping records and observations for a reasonable period for analytic assessment of sustainable parameters.

UNDERSTANDING

- The grant provided for implementation of the research project shall be utilized and disbursed by the concerned implementing agency in accordance with the guidelines of National Rainfed Area Authority, and shall adhere to overall cost norm prescribed therein and also in accordance with the conditions stipulated in this MoU.
- Support for undertaking activities / studies as agreed by both parties shall be governed by ICAR Rules and Guidelines for Professional Service Functions, 2014.

COORDINATING GROUP

- For regular and periodic exchange of information and opinions regarding the activities, the parties shall constitute a Coordination Group (CG) consisting of representative of each party. The CG shall meet and interact on continuous basis to discuss details and other information necessary for implementing the designed programmes, trainings, workshops and pilot project.
- Necessary help shall be provided by both the parties in their respective places for the smooth working of CG.

PARAMETERS/ DELIVERABLES

- Assessment of different neem germplasm for higher kernel yield.
- Assessment of different neem germplasm for higher oil content.
- Identification and recommendation of superior germplasm for higher kernel yield and oil content for rainfed ecosystems.
- Production of suitable quality planting material for afforestation in rainfed ecosystems.
- Identification and recommendation of suitable genotypes for neem based agro-forestry system which will provide economic benefits to the farmers in rainfed areas.

EXECUTION OF DEFINITIVE AGREEMENTS

- The parties shall execute definitive agreements, for implementation of the plans and arrangements subject to the approval of their respective Approving Authorities based on the schedule drawn for various assignments/projects by the Coordination Group.
- Each party agrees that it will make best efforts and advice its respective representatives to make their best efforts, to perform all acts as would be required to effectuate this MoU.


निदेशक / Director
के. कृ. बा. अनु. संस्थान, जोशी (उ०प्र०)
C.A.F.R.I., JHANSI (U.P.)


4

TERM

This MoU shall be valid for 3-years from the date of its signing. This MoU may be extended for a further period of three years, unless either party notifies the other party of the termination thereof, at least 30 days before its expiry.

- If any project or activity planned hereunder requires the parties to make and enter into a separate Memorandum of Understanding (MoU) or any other legal instrument, the parties shall make and enter into such Memorandum of Understanding or legal instruments.
- This MoU shall not apply to such a project or activity to the extent of its inconsistency or repugnancy to the Memorandum of Understanding or other legal instruments so separately made and entered into.

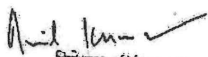
The contents of this MoU are confidential and each party hereto agrees to exercise its best efforts to provide the other party and its representative with information necessary to fulfil the purpose of this MoU and shall not disclose or communicate to any third party or publish any information obtained from the other party and its representatives concerning this MoU and/or all activities relevant thereto without the prior written consent of the other party except required by law.

The parties shall prevent the unauthorized use, dissemination or publication of this MoU of any part thereof.

GENERAL:

- This MoU constitutes the entire understanding of the parties arrived at by consensus and lays down a framework of positive and co-operative working relationship between them.
- Notwithstanding anything contained in this MoU (excluding Confidentiality clause), this MoU shall not create any legal or binding obligation on NRAA, MoAFW and the ICAR-Central Agroforestry Research Institute (CAFRI), Jhansi.

IN WITNESS whereof, the parties have executed this MoU by their duly authorized representatives, as of the date hereof.

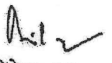

Director
कृषि संस्थान, जहानपुर (उत्तर प्रदेश)
CAFRI, JHANSI (UP)
ICAR-Central Agroforestry Research
Institute, Jhansi


TE (WM)

National Rainfed Area Authority, Ministry of
Agriculture, GoI, NASC Complex, New Delhi

Annexure-A

Objective	Title of Activity	2019-20				2020-21				2021-22			
		I	II	III	IV	I	II	III	IV	I	II	III	IV
1. To assess an array of neem germplasm for higher kernel yield	i DNA extraction of different genotypes			✓	✓								
	ii Molecular characterization of neem germplasm					✓	✓	✓	✓				
	iii Extensive phenotyping and genotyping for higher kernel yield					✓	✓	✓	✓	✓	✓		
2. To assess an array of neem germplasm for higher oil content	i Extensive phenotyping and genotyping for higher oil content					✓	✓	✓	✓	✓	✓		
3. Identification and recommendation of suitable genotypes with higher kernel yield and oil content for various agro-climatic zones of rainfed eco-system	i Identification of superior germplasm for higher kernel yield and oil content for various agro-climatic zones of rainfed ecosystems						✓	✓	✓	✓	✓	✓	✓
4. Production of suitable quality planting material for afforestation in rainfed ecosystems	i Production of 2500 suitable quality planting material through propagation techniques									✓	✓	✓	✓
5. Recommendation of suitable genotypes for neem based agro-forestry system for economic benefits of farmers in rainfed areas	i Identification of suitable germplasm for neem based agro-forestry system									✓	✓	✓	✓


 निदेशक/Director
 के. फु. बा. अनु. संस्थान, झांसी (उ.प्र.)
 C.A.F.R.I., JHANSI (U.P.)


 6