

Prioritization, Monitoring and Evaluation (PME) Cell
ICAR - INDIAN INSTITUTE OF NATURAL RESINS AND GUMS
NAMIKUM, RANCHI – 834 010

LIST OF RESEARCH PROJECTS FOR THE YEAR 2021-22

Ref.: IINRG/PMEC/IRC/August 2021

QUALITY AND PRODUCTIVITY IMPROVEMENT DIVISION						
Core Programme – I : Biodiversity conservation of lac insect and NRG yielding plants						
Sl. No.	Project No.	Title of the Project	Name of Investigators	% Time	Year of Start	Year of Completion
1.	1.1.070/2020 (Old1.1.072)	Collection, conservation, characterization and evaluation of lac insect/ host plant diversity	Dr. VD Lohot (PI) Dr. J Ghosh Dr. Thamilarasi K Dr. Achintya Pramanik	25 25 25 25	March, 2020	Of continuing nature
2.	1.1.082/2018 (Old1.1.070)	Taxonomic studies of lac insects (Hemiptera: Coccoidea: Tachardiidae) and associated insect fauna	Shri .NN Rajgopal (PI) Dr. Achintya Pramanik	35 25	June, 2018	Of continuing nature
Core Programme – II: Lac insect-host plant environment for improved quality and productivity						
3.	1.1.088/2021 (New)	Study of physiological adaptations of <i>Kerria lacca</i> (Kerr) under moisture stress	Dr. Achintya Pramanik (PI) Mr. Sandeep Kumar	25 25	July, 2021	June, 2024
4.	1.1.089/2021 (New)	In Vitro Production of Aleuritic Acid	Dr. Thamilarasi K (PI) Ms. Shruti Sinha Mr. Sandeep Kumar Dr. Preeti Srivastava (IIT Delhi)	25 20 50	May, 2021	April, 2024
5.	1.1.090/2021 (New)	Seed Deterioration and Amelioration strategies during Storage in <i>Flemingia semialata</i>	Dr. NK Sinha (PI) Dr. VD Lohot Dr. J Ghosh	30 20 20	August, 2021	July, 2024
6.	1.1.059/2018 (Old1.1.068)	Effect of abiotic factors on lac associated fauna in <i>rangeeni</i> crops (Phase-II)			August, 2018	December, 2021
PRODUCTION AND EXTENSION MANAGEMENT DIVISION						
Core Programme – III : Crop Production System Management and Evaluation						
7.	1.1.084/2019 (Old1.1.069)	Agronomic interventions influencing lac production in <i>palas</i> (<i>Butea monosperma</i>) in summer season	Dr. S Ghosal (PI) Shri NN Rajgopal	25 25	March, 2019	May, 2025

8.	1.2.058/2019 (Old1.1.071)	Lac Integrated Cropping System through Participatory Approach	Mis LC Langlentombi (PI) Dr. S Ghosal Dr. NK Sinha Shri NN Rajgopal	50 25 20 25	April, 2019	March, 2022	-
9.	1.2.091/2021 (New)	Estimation of water requirement and determination of growth-stage-specific crop coefficient (Kc) of <i>Flemingia strobilata</i> Roxb."	Er. Pradosh Paramaguru (PI) Dr. Santosh S. Mali, FSRCHPR, Plandu, Ranchi	50	April, 2021	March, 2024	Dr. Soumen Ghosal
10.	1.2.092/2021 (New)	Characterization and management of sooty mold associated fungi in lac and documentation of other diseases of lac host plants	Dr. Rahul R. Bakade	50	April, 2021	March, 2024	Dr. Achintya Pramanik Dr. N Thombare
Core Programme – IV : Capacity Building, Technology Dissemination, impact assessment and market intelligence							
11	1.2.076/2017 (Old1.3.052)	Capacity building, skill development, extension education and information service on natural resins and gums	Dr. Nirmal Kumar (PI) Dr. RK Yogi Dr. SKS Yadav	25 25 25	October, 2017	Of continuing nature	-
12.	1.2.077/2017 (Old1.3.053)	Market information support and impact assessment of technological interventions for NRGs	Dr. RK Yogi Dr. Nirmal Kumar	25 25	October, 2017	September, 2021	-
APPLICATION & PRODUCT DEVELOPMENT (APD) DIVISION							
Core Programme – V : Isolation, characterization, synthesis and standardization of NRG							
13.	1.3.075/2017 (Old1.2.071)	Synthesis of guar gum hydrogel-nanoparticle hybrid scaffold	Dr. SKS Yadav (PI)	25	July, 2017	September, 2021	-
14.	1.3.093/2021 (New)	Synthesis of <i>Terminalia bellirica</i> exudate gum hydrogel-metal nanoparticle composite materials for evaluation in drug release	Dr. SKS Yadav (PI)	25	August, 2021	July, 2023	
15.	1.3.094/2021 (New)	Synthesis of Gum Arabic based Hydrogel for remediation of dye contaminated water	Dr. Ch. Jamkhokai M (PI)	70	April, 2021	March, 2024	Dr. N Thombare Dr. Arnab R. Chowdhury
16.	1.3.095/2021 (New)	Synthesis of rosin derivative for its use as tackifier	Dr. M F Ansari (PI) Dr. Arnab R. Chowdhury	30 25	April, 2021	March, 2023	
Core Programme – VI : Product diversification and bio waste utilization of NRG							
17.	1.3.083/2018 (Old1.2.072)	Development and evaluation of resin/gum based sticky insect trap	Dr. N Thombare (PI)	25	April, 2018	September 2021	
18.	1.3.086/2019 (Old1.2.075)	Study on natural gum based dietary fibre as encapsulant for delivery of functional feed	Dr. AR Chowdhury (PI) Dr. N Thombare	25 25	September, 2019	August, 2022	-

			Shri Ch. Jamkhokai Mate Dr. Biplab Sarkar, ICAR-IIAB	15		
MECHANIZATION AND PROCESS ENGINEERING (MPE) DIVISION						
Core Programme – VII : Designing and development of farm tools and processing machineries						
19.	1.4.073/2017 (Old1.2.070)	Development of pilot plant of guar gum derivative for training and demonstration	Dr. S. C. Sharma (PI) Dr. A. R. Chowdhury Dr. N. Prasad Er. S. K. Pandey Dr. S K Giri, CIAE, Bhopal	25 15 25 25 10	April, 2017 March, 2022	
Core Programme – VIII : Process refinement, commercialization and entrepreneurship development						
20	1.4.096/2021 (New)	Ultrasound assisted extraction of protein isolates from guar meal for its potential applications in food	Dr. Palmei Gaibimei (PI)	75	April, 2021 March, 2023	Dr. N Thombare

ICAR-Network Projects						
20.	3.4.026/2009 (Old3.2.026)	Network project on Harvesting, Processing and Value Addition of Natural Resins and Gums (ICAR)	Dr. N Prasad (PC & PI) Dr. AR Chowdhury Dr. SC Sharma Er. SK Pandey Dr. N Thombare	25 25 25 25 25	February, 2009 March, 2021	Dr. VD Lohot
21.	3.1.055/2014 (Old3.1.054)	Network project on Conservation of Lac Insect Genetic Resources (ICAR)	Dr. KK Sharma (PC & PI) Dr. VD Lohot Dr. Thamilarasi K	25 25 25	August, 2014 March, 2021	-
KVK, Khunti, Ranchi						
22.	4.2.087/2020	Evaluation and dissemination of agricultural technologies for sustainable livelihood in tribal region	Dr. J Ghosh Dr. NK Sinha Dr. VD Lohot Dr. SC Sharma Dr. RK Yogi	25 10 10 25 10	July, 2020 June, 2025	Dr. Nirmal Kumar
Agri-Business Incubation						
23.	Institute Activity	Agri-Business Incubation under Component-II of NAIF Scheme of ICAR	Er. SK Pandey Dr. SC Sharma	30 25	April, 2019 Continuous in nature	Dr. RK Yogi

Inter-Institutional Projects

1. ICAR-IINRG, Ranchi & ICAR-IIAB, Ranchi

24.	Development and evaluation of the efficacy of novel nanoparticles for enhancing yield in rice and Indian major carp	Dr. AR Chowdhury, Co-PI	25	August, 2016	July, 2021	-
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2. ICAR-IINRG, Ranchi & ICAR-RCER Farming System Research Centre for Hill and Plateau Region, Plandu, Ranchi

25.	Enhancing food, nutritional and livelihood security of marginal and small farmers in Jharkhand through need based agricultural technologies	Dr. Nirmal Kumar, Co-PI Dr. NK Sinha, Co-PI	15 15	April, 2018	March, 2022	-
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3. ICAR-IINRG, Ranchi & ICAR-IIHR, Bengaluru

26.	Title, 'Development of storage protocol for extending the marketable period of fruits (Mango, Guava, Fig, Jamun, Muskmelon) and vegetables (Drumstick, Brinjal, Bottlegourd) Title, 'Development of bio-composite packages from horticultural waste' Aflatoxin management in spices: Development of preventive methods	Dr. MF Ansari, Co-PI Dr M F Ansari	15 15 15	February, 2020	December 2020	March, 2022
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Exploratory Study

	'Genetic manipulation in lac host plant (<i>F. semialata</i>) to establish better plant-lac insect interaction'	Dr. J Ghosh, PS,QPI Div	15			
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* Indicates scientist concerned would assist/facilitate the study without formally being associated with the project.
Note: One Projects (Nos. 1.2.060-old), under Core Programme-VII, in abeyance, so not listed here.

Debut
 (VD Lohot) 06/1/22
 I/c, P MEC

Chandany
 6/1/22
 (KK Sharma)
 Director & Chairman IRC

Explanation for coding of the Project Nos.

- First number indicate the category of the project (1) Institute (2) Externally funded (3) Network Project (4) KVK
- Second number indicate the Division (1) QPI (2) PEM (3) APD (4) MPE
- Third number will indicate the project number
- Year: Project Starting Year

For example **1.1.070/Year**

