

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

LIST OF APPROVED RESEARCH PROJECTS FOR THE YEAR 2018-2019

Ref.: IINRG/PMEC/IRC/May, 2018

Core Program - I : Productivity and Quality Improvement						
Sl. No.	Project No.	Title of the Project	Name of Investigators	% Time	Year of Start	Year of Completion
1	1.1.060	Collection, conservation, characterization and documentation of lac insect/host plant biodiversity (Phase - III)	Dr. VD Lohot Dr. J Ghosh Dr. Thamilarasi K Dr. A Mohanasundaram Dr. KK Sharma	25 20 20 15 *	April, 2017	March, 2020
	Sub-Project	Comparative analysis of life table and population parameters of both <i>kusmi</i> and <i>rangepeni</i> strains of lac insect, <i>Kerria lacca</i> on three bushy host plants	Mr. Asish Kumar Rout	40	June, 2017	December, 2019
2	1.1.049	Integrated nutrient management and vegetative propagation technique for quick establishment of <i>Kusum</i> (<i>Schleichera oleosa</i> (Lour.) Oken)	Dr. S Ghosal Dr. VD Lohot	25 *	May, 2014	December, 2018
3	1.1.056	Development and evaluation of lac production practices for <i>swadi palas</i> for productivity and two bushy hosts-- <i>arhar</i> and <i>semialata</i> for summer sustainability	Dr. J Ghosh Dr. VD Lohot Dr. S Ghosal Dr. Thamilarasi K	35 15 25 *	July, 2014	July, 2019
4	1.1.064	Identification and cloning of putative key genes involved in terpene biosynthesis of the Indian lac insect, <i>Kerria lacca</i> (Kerr)	Dr. Thamilarasi K	25	August, 2015	January, 2019
5	1.1.066	Morpho-physiological characterization vis-à-vis strategies to augment quality and storability of seeds of <i>Schleichera oleosa</i> under ambient condition	Dr. NK Sinha Dr. VD Lohot Dr. J Ghosh	50 20 20	October, 2017	September, 2020
6	1.1.067	Understanding lac insect-host plant interaction --- A molecular approach	Ms Shruti Sinha Dr. Thamilarasi K		June, 2018	May, 2020
Core Program - II : Crop Production System Management						
7	1.1.058	Lac Integrated Cropping System	Mr. Asish Kumar Rout	30	April, 2015	March, 2019

8	1.1.068	Effect of abiotic factors on lac associated fauna in <i>rangeeni</i> crops (Phase-II)	Dr. A Mohanasundaram Mr. Asish Kumar Rout	25	August, 2018	July, 2021
9	1.1.065	Evaluation of the effect of drip irrigation and plastic mulch on growth and yield of <i>Flemingia strobilata</i>	Er. SK Srivastava	80	January, 2018	March, 2021
Core Program - III : Processing, Storage and Quality Management						
10	1.2.060	Development of pilot-plant of dewaxed decolourized lac (DDL) for training, demonstration and process refinement	Er. SK Pandey, Dr. SC Sharma Dr. N Prasad Project kept in abeyance	--	--	--
11	1.2.066	Biodegradation studies on lac resin using soil burial method	Dr. MF Ansari Dr. S Maurya, ICAR-RCER, Plandu	30 50 --	April, 2016	March, 2019
12	1.2.070	Development of pilot plant of guar gum derivative for training and demonstration	Dr. SC Sharma Dr. A Roy Chowdhury Dr. N Prasad Er. SK Pandey	40 15-20 15 30	April, 2017	March, 2020
13	1.2.073	Study on spray drying of gum ghatti (<i>Anogeissus latifolia</i>)	Er. Ranjit Singh Er. Anamika Thakur	35 Salary - 20	April, 2018	March, 2020
Core Program - IV : Value Addition, Application Development and Product Diversification						
14	1.2.063	Green synthesis of silver nanoparticles capped in <i>acacia</i> and <i>jhingon</i> gum for bactericidal application	Dr. MZ Siddiqui Dr. A Roy Chowdhury Mr. Mohd Ali	35 15 25	April, 2015	March, 2019
15	1.2.065	Development of coating formulation for paper packaging materials	Dr. MF Ansari Dr. N Prasad	50 *	July, 2015	June, 2019
16	1.2.067	Modification of guar and arabic gum for potential use as dietary fibre	Dr. A Roy Chowdhury Dr. S Srivastava Dr. Thamilarasi K	25 20 *	April, 2016	March, 2019
17	1.2.068	Natural gum based adsorbents for removal of heavy metals from water	Mr. Mohd Ali Dr. N Thombare	40 20	April, 2016	March, 2019
18	1.2.069	Synthesis of natural gum based nanocomposite hydrogel for wound healing and water treatment	Dr. S Srivastava Dr. Biplab Sarkar, ICAR-IIAB Dr. Arnab Roy Chowdhury	40 -- 15	April, 2017	March, 2019

1.2.070, Study on spray drying of gum ghatti - 35
 ↳ Pl.add + Dr. N. Thombare 20
 Dr. Anamika Thakur - 20
 Salary - 20
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Study on natural gum based dietary fibre as entericulant for delivery of functional food

Dr. A. A. Chowdhury - 35
Dr. N. Thombare - 25
Er. R. Singh - 20
Dr. S. Maurya & Dr. B. Sarkar -

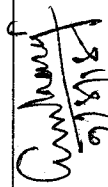
Sept. 2019
Aug. 22

19	1.2.071	Synthesis of guar gum hydrogel-nanoparticle hybrid scaffold	Dr. SKS Yadav	50	July, 2017	June, 2020
20	1.2.072	Development and evaluation of resin/gum based sticky insect trap	Dr. N Thombare Dr. S Srivastava Dr. A Mohanasundaram	30 30	April, 2018	March, 2021
Core Program - V: Capacity Building of Farmers and Entrepreneurship Development						
21	1.3.052	Capacity building, skill development, extension education and information service on natural resins and gums	Dr. Nirmal Kumar Dr. SKS Yadav Dr. RK Yogi Dr. N Prasad	25 25 25 *	October, 2017	March, 2020
Core Program - VI: Technology Evaluation, Refinement, Dissemination and Demonstration						
22	1.3.053	Market information support and impact assessment of technological interventions for NRGs	Dr. RK Yogi Dr. Nirmal Kumar	25 25	October, 2017	March, 2020
ICAR-Network Projects						
23	3.2.026	Network project on Harvesting, Processing and Value Addition of Natural Resins and Gums (ICAR)	Dr. N Prasad (PC)	25	February, 2009	March, 2020
	3.2.026.02	Development and antibacterial activity of <i>Buchanania lanzan</i> (piyar) gum-based silver nanoparticles	Dr. MZ Siddiqui Dr. A Roy Chowdhury	35 -15	October, 2015	September, 2018
	3.2.026.03	Comparative evaluation of properties of <i>Bahera</i> (<i>Terminalia bellerica</i>) gum exudates collected from different agro-climatic zones	Er. Anamika Thakur Er. Ranjit Singh Dr. MZ Siddiqui	*	April, 2018	March, 2020
	3.2.026.04	Exploration and preparation of field guide for minor gum & resin producing plants in India	Dr. N Thombare Dr. VD Lohot Dr. N Prasad	20 * *	April, 2018	March, 2020
24	3.1.054	Network project on Conservation of Lac Insect Genetic Resources (ICAR)	Dr. KK Sharma (PC & PI) Dr. A Mohanasundaram Dr. Thamilarasi K Dr. VD Lohot	25 20 20 25	August, 2014	March, 2020
	3.1.054.01	Elemental budgeting of lac production system in <i>Flemingia strobilata</i> for sustainable lac insect-host plant ecosystem	Dr. VD Lohot Dr. A Mohanasundaram	* *	January, 2016	March, 2020

Dr. A. A. Chowdhury
Dr. N. Thombare
Er. R. Singh
Dr. S. Maurya & Dr. B. Sarkar

3.1.054.02	Diversity analysis of aleuritic acid content in major lac insect species/strains and its use for better isolation strategies	Dr. A Mohanasundaram Mr. Mohd Ali	*	25	April, 2017	March, 2020
ICAR-ICRAF						
25	2.1.054	Enabling tribal communities to improve their livelihoods through agroforestry systems on a sustainable basis	Dr. J Ghosh Dr. A Mohanasundaram Dr. RK Yogi	15 15 25	Oct., 2017	March, 2020
ICAR-DBT						
26	2.1.055	Identification, cloning and characterization of genes involved in pigment biosynthesis of the Indian lac insect, <i>Kerria lacca</i> (Kerr)	Dr. Thamilarasi K Dr. Anees K	25 --	September, 2017	September, 2020
Inter-Institutional (ICAR-IINRG & ICAR-IIAB)						
27	--	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	* 30	January, 2017	March, 2019
28	--	Development and evaluation of the efficacy of novel nanoparticles for enhancing yield in rice and Indian major carp	Dr. A Roy Chowdhury, Co-PI	15	August, 2016	July, 2021

Siddiqi
(MZ Siddiqui)
19.8.18.
I/c, P MEC


(KK Sharma)
Director

Explanation for coding of the Project Nos.

- (i) First number indicates category of projects: Institute Project-1, Externally Funded Project-2, Network Project-3, (ii) Second number indicates the Divisions: LPD-1, PPDD-2, TOT-3 and (iii) Third number indicates the project number.
- (ii) * Indicates scientist concerned would assist/facilitate the study without formally being associated with the project.