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**INDIAN INSTITUTE OF NATURAL RESINS AND GUMS  
NAMKUM, RANCHI - 834 010  
PRIORITY LIST OF APPROVED RESEARCH PROJECTS FOR THE YEAR 2014-2015**

<b>Core Program - I : Productivity and Quality Improvement</b>		
Sl.No.	Title of the Project	Priority
1.	Potentiality trials of <i>Kerria chinensis</i> on new lac host plants	16
2.	Collection, conservation, characterization and documentation of lac insect and host plant bio-diversity (Phase-II)	9
3.	Vegetative propagation of <i>kusum</i> ( <i>Schleichera oleosa</i> (Lour.) Oken)	19
4.	Isolation and characterization of root nodule bacteria from <i>Flemingia spp</i>	21
5.	Enhancing pure germinating seed yield of <i>Flemingia semialata</i> by physiological approaches.	15
<b>Core Program - II : Crop Production System Management</b>		
6.	Lac Integrated Farming System	3
7.	Development of spraying schedule of fungicides for management of sooty mold in winter <i>kusmi</i> lac crop.	14
8.	Study of variation of lac associated fauna in relation to different host plants.	18
9.	Tritrophic interaction in lac ecosystem: a semiochemical approach	20
10.	Carbon sequestration under different lac host based land use systems	4
11.	Integrated nutrient management for quick establishment of <i>kusum</i> plantation	10
<b>Core Program -III : Processing, Storage and Quality Management</b>		
12.	Design and development of integrated small scale lac processing unit for conversion of sticklac - seedlac	1
13.	Characterization, chemical profiling and evaluation of Gum Ghatti ( <i>Anogeissus latifolia</i> Wall.)	8
<b>Core Program -IV : Value Addition, Application Development and Product Diversification</b>		
14.	Synthesis and evaluation of Guar gum derivatives	2
<b>Core Program - V: Capacity Building of Farmers and Entrepreneurship Development</b>		
15.	Learning, capacity building, extension education and information service on Natural Resin and Gums	7
<b>Core Program -VI: Technology Evaluation, Refinement, Dissemination &amp; Demonstration</b>		
16.	Development and validation of IPM modules for the management of predators and parasitoids associated with lac insect, <i>Kerria lacca</i> (Kerr)	11
17.	Market research for production and marketing of natural resins and gums	17
18.	Evaluation of lac mud as organic manure	12
19.	Impact assessment of technological interventions and constraints analysis of lac cultivation.	6
20.	Information Communication Technology (ICT) Intervention on Natural Resins and Gums knowledge dissemination system	5
21.	Standardization of package of practices for rangeeni lac cultivation on <i>Flemingia semialata</i>	13
<b>Externally Funded Projects</b>		
1.	Lac cultivation and processing unit establishment.	1
2.	Jute based bio-composites for industry	3
3.	Use of Natural Resins and Gums for Preservation and Value Addition of Fishery Products	2
4.	Multidimensional investigation on <i>Aprostocetus purpureus</i> , a resurgent parasitoid of Indian lac insect, <i>Kerria lacca</i> (Kerr.) for devising lac crop management strategies.	4

D/c P M G Cell.

Res.  
JBS  
17/6/14

Baran  
17.06.14  
(Head, P.P.G Div.)

Head LPD

P/c PMF Cell

16/06/14

The information may pl. be submitted by 1530hrs today (13/6/14)

13/6/14

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**PRIORITY LIST OF APPROVED RESEARCH PROJECTS FOR THE YEAR 2014-2015**

<b>Core Program - I : Productivity and Quality Improvement</b>			
Sl.No.	Title of the Project	Priority * (1,2,3)	Remarks
1.	Host plant evaluation and improvement for lac productivity & summer sustainability	1	
2.	Potentiality trials of <i>Kerria chinensis</i> on new lac host plants	2	
3.	Collection, conservation, characterization and documentation of lac insect and host plant bio-diversity (Phase-II)	1	
4.	Vegetative propagation of <i>kusum</i> ( <i>Schleichera oleosa</i> (Lour.) Oken)	2	
5.	Isolation and characterization of root nodule bacteria from <i>Flemingia spp</i>	3	
6.	Enhancing pure germinating seed yield of <i>Flemingia semialata</i> by physiological approaches.	1	
<b>Core Program - II : Crop Production System Management</b>			
7.	Lac Integrated Farming System	1	
8.	Development of spraying schedule of fungicides for management of sooty mold in winter <i>kusmi</i> lac crop.	2	
9.	Study of variation of lac associated fauna in relation to different host plants.	2	
10.	Influence of macro / micronutrients on <i>kusmi</i> lac production in comparison to standard package on <i>Flemingia semialata</i>	2	
11.	Tritrophic interaction in lac ecosystem: a semiochemical approach	2	
12.	Carbon sequestration under different lac host based land use systems	1	
13.	Integrated nutrient management for quick establishment of <i>kusum</i> plantation	2	
<b>Core Program -III : Processing, Storage and Quality Management</b>			
14.	Intrinsic chemical variability, amino acid profiling and anti bacterial activity of Indian <i>babool</i> gum from different agro-climatic zones.	2	
15.	Design and development of integrated small scale lac processing unit for conversion of sticklac - seedlac	1	
16.	Characterization, chemical profiling and evaluation of Gum Ghatti ( <i>Anogeissus latifolia</i> Wall.)	2	
<b>Core Program -IV : Value Addition, Application Development and Product Diversification</b>			
17.	Utilization of lac wax and lac dye for use as PGR and anti fungal agent.	1	
18.	Development of crack cream formulation based on <i>palas</i> and <i>moringa</i> gum	3	
19.	Modification of gummy mass for its application	2	
20.	Synthesis and evaluation of Guar gum derivatives	1	
<b>Core Program - V: Capacity Building of Farmers and Entrepreneurship Development</b>			
21.	Learning, capacity building, extension education and information service on Natural Resin and Gums	1	

O/c

For Women

<b>Core Program -VI: Technology Evaluation, Refinement, Dissemination &amp; Demonstration</b>			
22.	Development and validation of IPM modules for the management of predators and parasitoids associated with lac insect, <i>Kerria lacca</i> (Kerr)	2	
23.	Market research for production and marketing of natural resins and gums	2	
24.	Evaluation of lac mud as organic manure	2	
25.	Impact assessment of technological interventions and constraints analysis of lac cultivation.	1	
26.	Information Communication Technology (ICT) Intervention on Natural Resins and Gums knowledge dissemination system	1	
27.	Standardization of package of practices for rangeeni lac cultivation on <i>Flemingia semialata</i>	2	
<b>Externally Funded Projects</b>			
28.	Production of summer <i>kusmi</i> broodlac on <i>kusum</i> for promotion of lac cultivation in Gujarat with farmer's participation. (Forest Department, Silva Division, Gujarat)	2	
29.	Lac cultivation and processing unit establishment.	1	
30.	Jute based bio-composites for industry	2	
31.	Use of Natural Resins and Gums for Preservation and Value Addition of Fishery Products	2	
32.	Multidimensional investigation on <i>Aprostocetus purpureus</i> , a resurgent parasitoid of Indian lac insect, <i>Kerria lacca</i> (Kerr.) for devising lac crop management strategies.	2	
<b>Network Projects</b>			
33.	Network project on Harvesting, processing and value addition of natural resins and gums (ICAR)	1	
34.	Network project on Conservation of Lac Insect Genetic Resources	1	
<b>Collaborative and Exploratory Studies</b>			
35.	Lac based agro-forestry in Bundelkhand region: Introduction and evaluation	2	
36.	Development of seri-lac culture model for income augmentation (CSRTI, Mysore and IINRG, Ranchi)	2	

\*Priority 1 – Top priority; 2 – Medium priority; 3 – Least priority

12

22

2

Dr. P. M. S. Chh.

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Percentage Time of Scientists as on 01/06/2014

Sl.	Project No.	Dr. K. K. Sharma	Dr. A. M. Sundaram	Dr. Md. Monoburrah	Dr. Thamilarasi, K	Dr. V. D. Lohot	Dr. J. Ghosh	Dr. Vibha Singhal	Dr. S. Ghosal	Dr. A. K. Singh	Sri S. C. Meena	Mr. Anees K	Ms Rajna S.	Shri S. S. Bhat	Mr. K. U. Tribhuvan	Dr. N. Prasad	Dr. M. Z. Siddiqui	Er. S. K. Pandey	Dr. S. C. Sharma	Dr. P. C. Sarkar	Dr. S. Shrivastava	Sri M. F. Ansari	Dr. A. R. Choudhury	Shri. Nandkishore	Shri J. Mate	Dr. A. K. Jaiswal	Dr. A. K. Singh	Dr. Alok Kumar	Dr. R. K. Yogi	Shri S. K. S. Yadav	Dr. A. Bhattacharya							
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2	1.2.032																																					
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7	1.2.035																				25		20															
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9	1.3.037															10																						
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28	MOFP																				40																	
29	Miscellaneous																																					
30	Collaborative																																					
31	Exploratory																																					
32	Collaborative																																					
	Total															100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		

परिचालित

CIRCULATED to Divisions for filling up their % time in research projects.  
Sd/- Scientist of the Division  
Date: 10.06.14

Dr. P. M. S. Chh.

Dr. P. M. S. Chh.

Dr. P. M. S. Chh.