



INDIAN LAC RESEARCH INSTITUTE, Namkum, Ranchi - 834010

List of Approved Research Projects (Technical Programme) for Year: 2004-2005

PROJECT NO.	TITLE OF THE PROJECT	NAME OF INVESTIGATORS	PER. OF TIME DEVOTED*	YEAR OF START	YEAR OF COMPLETION
<b>Core Program - I : Productivity and Quality Improvement</b>					
I.1.1.	Collection, maintenance, conservation & evaluation of lac insect and host plants	1. Dr P Kumar 2. Sri R. Ramani 3. Dr K. K. Sharma 4. Sri. D. Saha, (on study leave) 5. Sri. R.K. Singh	25% 10% 20%  15%	1997-1998	Long term project
I.1.2.	Improvement in Lac Host Plant Propagation Techniques	1. Sri. S.C. Srivastava 2. Dr. B.P. Singh 3. Dr. A. Bhattacharya	50% 25% 20%	2003-2004	2006 - 2007
I.1.3.	Selection of <i>Flemingia semialata</i> for summer sustainability of <i>kusmi</i> lac crop	1. Dr. P. Kumar 2. Sri Y. D. Mishra	25% 15%	2004 - 2005	2007 - 2008
I.1.4.	Identification and characterization of <i>kusum</i> and <i>galwang</i> genotypes for high productivity of lac.	1. Sri. Y.D. Mishra 2. Sri S.C. Srivastava	25% 40%	2004 - 2005	2007 - 2008
I.1.5.	Screening of <i>kusmi</i> lac insect germplasm on <i>Ziziphus mauritiana</i> ( <i>ber</i> ) and <i>Flemingia semialata</i> for improved productivity.	1. Dr. K.K. Sharma 2. Sri. Y.D. Mishra	25% 10%	2004 - 2005	2007 - 2008
EX.1.1.	Biological, chemical and molecular characterization of lac insect-host plant relationship (DBT Project)	1. Dr. K.K. Sharma 2. Sri. D. Saha (on study leave) 3. Dr. S. Lakhnopal, DU 4. Dr. H.M. Chawla, IIT, Delhi	25%	2003 - 2004	2005 - 2006
EX.1.2.	Application of molecular fingerprinting for genetic characterization of races and species of lac insect. (DBT Project)	1. Sri. R. Ramani 2. Sri. D. Saha (on study leave) 3. Dr. J. Nagaraju, CDFD, Hyderabad	30%	2003 - 2004	2005 - 2006

## Core Program -- II : Production Improvement and Crop Management

PROJECT NO.	TITLE OF THE PROJECT	NAME OF INVESTIGATORS	PER. OF TIME DEVOTED*	YEAR OF START	YEAR OF COMPLETION
I.2.1.	Nutrient Management in soil for maximising lac yield	1. Sri G. Singh 2. Dr. S.K. Yadav	60% 25%	2000-2001	2005-2006
I.2.2.	Management of <i>Flemingia semialata</i> for sustainable lac production under different crop geometry and irrigation	1. Dr. S.K. Yadav 2. Sri Y. D. Mishra 3. Sri R. K. Singh	45% 15% 40%	2000-2001	2005-2006
I.2.3	Integration of <i>Flemingia semialata</i> with horticultural crops for sustainable lac production under irrigated conditions	1. Dr. B.P. Singh 2. Sri. Y.D. Mishra 3. Dr. S.K. Yadav	50% 10% 20%	2003 -2004	2006 -2007
I.2.4	Delineation of promising lac growing areas and their soils for macro and micronutrients deficiency / sufficiency.	1. Shri. G. Singh	40%	2004 - 2005	2006 - 2007
EX.2.1.	Production of quality broodlac on <i>kusum</i> and <i>palas</i> at different agro-climatic region (Revolving Fund Scheme)	1. Sri Y.D. Mishra 2. Dr A. Bhattacharya 3. Dr K.K. Sharma	25% 15% 10%	Nov., 1996	10 years
EX.2.2.	Evaluation of bio-control agents and bio-rational approaches for management of lac insect predators (DBT Project)	1. Dr. A. Bhattacharya 2. Dr. A.K. Jaiswal 3. Dr. K.K. Kumar	40% 30% 20%	2003 - 2004	2005 - 2006

## Core Program --III : Processing and Value Addition

I.3.1.	Studies on qualitative changes in lac with storage	1. Dr. D. N. Goswami 2. Dr. N. Prasad (Sr.) 3. Dr. B. Baboo	50% 25% 25%	2002-2003	2005-2006
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**PROJECT NO. TITLE OF THE PROJECT NAME OF INVESTIGATORS PER. OF TIME DEVOTED\* YEAR OF START YEAR OF COMPLETION**

I.3.2.	Comparative study on the physico, chemical properties of lac from various lac producing countries	1. Dr. S. Srivastava 2. Dr. D.N. Goswami 3. Dr. N. Prasad (Sr.) 4. Sri. M.F. Ansari	50% 25% 25% 25% 35%	2004 - 2005	2006 - 2007
I.3.3.	Enhancing Keeping Quality of Bleached Lac	1. Shri. R. Singh	50%	2004 - 2005	2006 - 2007
I.3.4	Establishment of Commercially Viable Pilot Plant for Preparing Pure / Food Grade Lac Dye	1. Dr. K.M. Prasad 2. Sri. S.K. Pandey	50% 25%	2004 - 2005	2006 - 2007
I.3.5	Development of water-soluble lac in powder form / flakes, based on borax.	1. Shri. P.M. Patil 2. Dr. K.M. Prasad	75% 25%	2004 - 2005	2005 - 2006

**Core Program - IV : Product Development and Use Diversification.**

I.4.1.	Water thinned shellac - synthetic resin/polymer blends for cementitious surfaces	1. Sri M.F. Ansari 2. Dr. D. N. Goswami	50% 10%	2002 - 2003	2005-2006
I.4.2	Use of sticklac in development of composite board from arhar stick for panel / furniture	1. Dr. K.P. Sao 2. Sri. S. Pandey	75% 25%	2003 - 2004	2005-2006
I.4.3	Development of lac-based coating formulations for extending shelf life of fruits and perishable food products	1. Dr. P.C. Sarkar 2. Dr. S. Srivastava 3. Dr. P. Dey, (HARP, Ranchi)	40% 25%	2003 - 2004	2005-2006
I.4.4.	Field Evaluation of PGR and insect attractant / repellants derived from aleuritic acid.	1. Dr. R.N. Majee 2. Dr. A. Bhattacharya 3. S.C. Srivastava	50% 10% 10%	2004 - 2005	2006 - 2007
I.4.5.	Development of Lac-based Nail Polish.	1. Dr. R.N. Majee 2. Dr. K. K. Kumar	25% 10%	2004 - 2005	2005 - 2006
EX.4.1	Integrated pest management (IPM) at village level for cost-effective, quality production (Technology Mission on Cotton)	1. Dr. N. Prasad (Sr.) 2. Dr. P.C. Sarkar 3. Dr. R. N. Majee 4. Dr S. Srivastava	25% 40% 25% 25%	2001 - 2002	2006 - 2007

I.4.6. Use of lac and modified lac in the  
*1. Dr. D. N. Go*  
*manufacture of fibre reinforced sheets*  
*for structural and other purposes*  
*2. M.F. Ansari*  
*3. Dr N. Prasad*

30%  
50%  
25%

**Core Program – V : Technology Assessment, Refinement and Dissemination**

PROJECT NO.	TITLE OF THE PROJECT	NAME OF INVESTIGATORS	PER. OF TIME DEVOTED*	YEAR OF START	YEAR OF COMPLETION
I.5.1	Improvements in process and equipments for processing quality seedlac at village level	1. Dr. Niranjan Prasad (Jr.) 2. Dr. Bangali Baboo 3. Sri. S.K. Pandey	75 % 25 % 25 %	2004 - 2005	2005 - 2006
I.5.2	Database on lac - Basic information and Technologies Available	1. Sri. R. Ramani	10%	2004 - 2005	2005 - 2006
I.5.3	Eco-friendly Disposal of Lac Effluents and their Possible Utilisation (Exploratory study in first year)	1. Dr. K.M. Prasad	50%	2004 - 2005	2006 - 2007
EX.5.1.	Study of Lac Marketing in India (AP Cess Fund)	1. Sri R. Ramani 2. Dr. G. Pal 3. Dr. S.P. Bhardwaj, IASRI, New Delhi	10% 25%	15.11.2001	14.11.2004
EX.5.2	Adoption of Lac Growers of Jharkhand for Model Upliftment through Scientific Lac Cultivation. (Jharkhand Govt. project)	1. Sri. R. Ramani 2. Dr. K.K. Sharma 3. Dr. A.K. Jaiswal 4. Sri. M.L. Bhagat 5. Dr. N. Prasad (Jr.) 6. Dr. G. Pal	10% 10% 10% 10% 10% 10%	2001-2002	Continuing
EX.5.3.	Lac as a source of livelihood; technology intervention for sustained production in <i>Khunti</i> Sub-division Ph – II (Pradhan)	1. Dr. K.K. Sharma 2. Sri M.L. Bhagat	10% 15%	October 2003	September 2005

**Core Program – VI : HRD for Capacity Building in Lac Production, Processing and Value Addition**

I.6.1	Training, demonstration, extension education and information service on lac culture, processing and product development	1. Dr. K.K. Kumar 2. Dr. A.K. Jaiswal 3. Sri R. Singh 4. Sri M.L. Bhagat	40% 50% 25% 50%	1998-1999	Long term project
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PROJECT NO.	TITLE OF THE PROJECT	NAME OF INVESTIGATORS	PER. OF TIME DEVOTED*	YEAR OF START	YEAR OF COMPLETION
I.6.2	Economics of Lac cultivation in Jharkhand	1. Dr. G. Pal 2. Sri. M.L. Bhagat	50% 25%	2003 - 2004	2004 - 2005

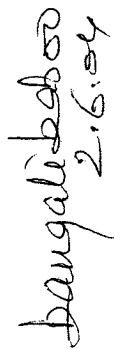
Note: \* % Time devoted is subject to revision / change;

I : Institute funded project; Ex: Externally funded project

The scientist listed at Serial No. 1 against each project would act as the Project leader (Principle Investigator) / PI / CCPI



(P. C. SARKAR)  
Member Secretary, SRC



(BANGALI BABOO)  
Director & Chairman, SRC