

Updated on 29/08/2019

Rajiv Gandhi Science and Technology Commission
Government of Maharashtra
LIST OF SANCTIONED PROJECTS

| Sr. No. | Project Title | Organization/ Institute and Principal Investigator |
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| 1 | Development of Open Education Resources for Schools (K12) for Enabling High Quality and Transformative Value. | Homi Bhabha Centre for Science Education, TIFR, Mumbai. Prof. S.C. Agarkar |
| 2 | Advance knowledge and Rural Technology Implementation (AKRUTI) initiative with Technical Know-how Guidance and Consultancy from BARC. | Bhabha Atomic Research Centre, Mumbai. Shri. Ganesh G. |
| 3 | Industrial Scale Dehydration of Agricultural and Marine Food Products: Value Addition to Farm Products. | Institute of Chemical Technology, Mumbai. Prof. B.N. Thorat |
| 4 | Design and Development of sustainable Remediation Process for Mitigation of Arsenic Contamination in Ground Water. | National Environmental Engineering Research Institute, Nagpur. Dr.(Mrs.) Leena S. Deshpande |
| 5 | Preservation and Processing of Fruits and Vegetables using Sustainable Technology. | Institute of Chemical Technology, Mumbai. Prof. (Mrs.) Smita S. Lele |
| 6 | Demonstration and assessment of economic viability of new, Efficient and Less polluting Brick-making Technology (Vertical Shaft Brick Kiln – VSBK) in Tribal block of Konkan Region. | Indian Institute of Technology Bombay, Mumbai. Prof. Anand B. Rao |

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| 7 | Development of Nutritious Supplementary Foods from edible Food Waste to Improve Food and Nutrient Security. | Marathwada Agricultural University, Parbhani. Dr.(Mrs.) Asha B. Arya |
| 8 | Pilot Scale Demonstration of Fish Ball in Curry. | College of Fisheries (DBSKKV), Ratnagiri. Dr. Vithal R. Joshi |
| 9 | Design and Development of Three Wheeler Efficient Bullock Cart. | North Maharashtra University, Jalgaon. Dr. J.V. Sali |
| 10 | Pilot Scale Demonstration-cum-Training and Research Project on Agro-Horticultural Processing for Value addition. | Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola. Dr. Sanjay Bhojar |
| 11 | Regular use of Audio Tapes/CD in Primary School Teaching (4thstd) in Amalner. | North Maharashtra University, Jalgaon. Dr. Archana Degaonkar |
| 12 | Rheological Behavior and Modeling of Sorption Kinetics of Traditional Dairy Product. | College of Dairy Technology, Warud, Dist. Nagpur. Er. Prashant G. Wasnik |
| 13 | Digitized Inventory of Medicinal Plant Resources of Maharashtra. | Agharkar Research Institute, Pune. Dr. (Mrs.) Anuradha S. Upadhye |
| 14 | Palm Print and Fingerprint Analyzer. | College of Engineering, Pune. Dr. (Mrs.) M.A. Joshi |
| 15 | Intensive rearing of Buffalo calves for Meat production. | Maharashtra Animal & Fishery Science University, Nagpur. Shri R.N. Dhore |
| 16 | Medical Implant and Computer Aided Tissue Engineering. | Visvesvaraya National Institute of Technology, Nagpur. Dr. A.M. Kuthe |

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| 17 | Studies on Seed production of Mud Crab (<i>Scylla</i> spp.). | College of Fisheries (DBSKKV), Ratnagiri. Dr. Suresh Dattatray Naik |
| 18 | Formulation of Approximate Generalized Experimental Data Base Model (Generation of Design Data) for (a) Chaff Cutting Process (b) Nursery Fertilizer Mixing Process Energized by Human Powered Flywheel Motor (H.P.F.M). | Priyadarshini College of Engineering, Nagpur. Dr. M.P. Singh |
| 19 | Conservation & Biology of Tropical Tasar Silkworm <i>Antheraea mylitta</i> : Eco-race Bhandara, an endemic species in Vidarbha. | Rastrasant Tukdoji Maharaj Nagpur University, Nagpur. Dr. D.D. Barsagade |
| 20 | Empowerment of SC/ST Women through Goat Keeping. | PGI of Veterinary and Animal Sciences, Akola. Dr. S.G. Mode |
| 21 | Design and Development of Sustainable Remediation Process for Mitigation of Fluoride Contamination in Groundwater and Field Application for Domestic Use. | National Environmental Engineering Research Institute, Nagpur. Dr. Pawan Labhassetwar |
| 22 | Demonstration and Training on Fish Stock Enhancement of Small Reservoirs of the Vidarbha and Marathwada Region of Maharashtra. | Maharashtra Animal and Fishery Sciences University, Nagpur. Dr. R. H. Rathod |
| 23 | Rural Bioresource Complex for Bio-Entrepreneurship Development in Vidarbha Region of Maharashtra State. | Maharashtra Animal and Fishery Sciences University, Nagpur. Dr. A. P. Dhok |
| 24 | Pilot Scale Demonstration on Seed Production of <i>Macrobrachium Rosenbergii</i> using Artificial Seawater. | College of Fisheries (DBSKKV), Ratnagiri. Dr. H. Dhaker |
| 25 | Mycosynthesis of Silver Nanoparticles for the Development of Novel Antimicrobials. | Sant Gadge Baba Amravati University, Amravati. Dr. M. K. Rai |
| 26 | Cold Storage Facility for Post-harvest Preservation of Fruits and Vegetables using Solar and Biomethane Heat Based Refrigeration. | Institute of Chemical Technology, Mumbai. Dr. S.S. Bhagwat |

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| 27 | Biofertilizers and Biopesticides Bank for local farmers. | North Maharashtra University, Jalgaon. Dr. S.V. Patil |
| 28 | Pilot Scale Demonstration of Value added products from Acetes using its functional properties. | College of Fisheries (DBSKKV), Ratnagiri. Dr. Vithal R. Joshi |
| 29 | Phytosociological studies, Nursery technology, Nutritional values of seed kernel and Micropropagation of Semicarpus anacardium L.; an important NTFP of Maharashtra. | Shri Ramanand Teerth Marathwada University, Nanded. Dr. R. M. Mulani |
| 30 | Community based Adoption and Management of Fresh Water Cage Fish Culture in Aquatic Impoundments for Food Security and Rural Livelihood. | College of Fisheries (DBSKKV), Ratnagiri. Dr. B.R. Chavan |
| 31 | Development of Vacuum and Modified Atmosphere Packaging Technology for Retailing of Fish and Shellfish. | College of Fisheries (DBSKKV), Ratnagiri. Dr. S.B. Patange |
| 32 | Process improvements and Technology Dissemination in Jaggery Making. | Indian Institute of Technology Bombay, Mumbai. Prof. N.G. Shah |
| 33 | Condenser Heat Recovery based Desalination System. | Indian Institute of Technology Bombay, Mumbai. Dr. M. V. Rane |
| 34 | Technology Incubation Centre (TICE) at VNIT, Nagpur | Visvesvaraya National Institute of Technology, Nagpur. Prof. R.M. Patrikar |
| 35 | Design Analysis for Improvement of Manufacturing Process for Minimizing the Failure Modes of Chain Assembly. | SVERI's College of Engineering, Pandharpur. Prof. B.D. Gaikwad |
| 36 | Development of Shelf-Stable Ready to Use Nutrient Dense Food Mixes and Nutrition Education Modules for Reducing Child Undernutrition. | S.N.D.T Women's University, Mumbai. Dr. S.A. Udipi |
| 37 | Livelihood and Eco-development group of Poor Farmer Women in WRH Watershed. | Jagrut Mahila Samaj, Ballarpur. Er. Sandhya V. Edlabadkar |

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| 38 | An Assessment of Placer Mineral Deposits and Morphodynamic Variability and their Implications on Vulnerable Coastal Areas between Vaitarna and Ulhas river mouths, North Maharashtra. | National Institute of Oceanography, Goa. Dr. S. D. Iyer |
| 39 | Pilot scale demonstration of Fish and Fishery based By-products. | College of Fisheries (DBSKKV), Ratnagiri. Dr. J. M. Koli |
| 40 | Accelerated Salt Fermentation of Indian Mackerel, <i>Rastrelliger Kanagurta</i> through Application of Fermenting Microflora. | Central Institute of Fisheries Education, Mumbai. Dr. B.B. Nayak |
| 41 | Numerical modelling of Oil-spill Dispersion for Maharashtra coast. | Indian Institute of Technology Bombay, Mumbai. Prof. Balaji Ramakrishnan |
| 42 | Process Development and Characterization of Antiuro lithiatic Activity of Bioactive Metabolites of selected Medicinal Plants from Melghat Forest Region (Amravati). | Sant Gadge Baba Amravati University, Amravati. Dr. Anita S. Patil |
| 43 | Integrated Pesticide Residue Management in Selected Fruits & Vegetables of Maharashtra. | Bharati Vidyapeeth Deemed University, Pune. Dr. S. H. Patil |
| 44 | Development of Vigyan Ashram's D-I-Y Lab. | Vigyan Ashram, A Center of Indian Institute of Education, Pune. Dr. Yogesh Kulkarni |
| 45 | Structural Health Monitoring of Reinforced Concrete element using Acoustic Emission Technique. | Vishwakarma Institute of Information Technology, Pune. Dr. Bilavari S. Karkare |
| 46 | Design and Development of Routing Algorithm for Mobile for Wireless Sensor Network (WSN) for Environmental Monitoring to estimate the Pollution levels in the air. | Vishwakarma Institute of Information Technology, Pune. Dr. Anil S. Tavildar |
| 47 | ICT Enabled School Education in Rural Areas around 15-20 Kms from NKN Node. | SVERI's College of Engineering, Pandharpur. Dr. B. P. Ronge |
| 48 | Param School and Param University for Quality School Education for All with focus on Rural Area. | Maharashtra Knowledge Corporation Limited, Pune. |

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| | | Shri Vivek Sawant |
| 49 | Setting up Rural Human and Resource Development Facility (RHRDF) with the Technical Guidance and Consultancy from BARC- DAE. | SVERI's College of Engineering, Pandharpur. Dr. P.M. Pawar |
| 50 | Seed Production of Seahorse Fish under Captive Conditions. | College of Fisheries, (DBSKKV), Ratnagiri. Shri N. D. Chogale |
| 51 | Developing technology for extraction and isolation of Anti-Arthritic drugs from plants indigenous to Maharashtra. | Institute of Chemical Technology, Mumbai. Prof. K. S. Laddha |
| 52 | Green Surfactants: Value Addition to Neem Oil and Cake. | Institute of Chemical Technology, Mumbai. Dr. Amit P. Pratap |
| 53 | Ultra Health: Water Fun Station. | Institute of Chemical Technology, Mumbai. Prof. Bhaskar Thorat |
| 54 | Maharashtra Network of Technology and Innovations Hubs for Rural Area (MAHANETRA). | BAIF Development Research Foundation, Pune. Shri Bharat K. Kakade |
| 55 | 3D cell culture Technology for Developing Affordable Bioengineered Skin for Burn Patients. | Institute of Chemical Technology, Mumbai. Dr. Prajakta D. Jain |
| 56 | Design and Development of Efficient Flocculants for Protein Recovery from Waste Water in Fish-Meal Industry. | CSIR-National Chemical Laboratory, Pune. Dr. M. V. Badiger |
| 57 | Pre-Treatment of Biomethanated Distillery Waste by Catalytic Wet Air Oxidation (CWAO) to Enhance Further Biomethanation. | Institute of Chemical Technology, Mumbai. Dr. Prakash D. Vaidya |
| 58 | Useful product from Dried leaves of Mango tree. | Institute of Chemical Technology, Mumbai. Dr. V. K. Rathod |
| 59 | Establishing a Resource Centre for Studies on Ayurvedic Medicines in Treatment of Diabetes mellitus. | Shivaji University, Kolhapur. Dr. (Mrs.) A. U. Arvindekar |

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| 60 | Conversion of Traditional Jaggery Rounds into Free Flowing Jaggery Stable Granules. | Institute of Chemical Technology, Mumbai. Prof. B. N. Thorat |
| 61 | To set up Maharashtra Gene Bank. | Indian Institute of Science Education & Research (IISER), Pune. Dr. Milind Watve |
| 62 | Biomedical Engineering & Technology Centre (Incubation). | Indian Institute of Technology Bombay, Mumbai. Prof. B. Ravi |
| 63 | Extended Field Trials on Jaggery Process and Product Improvements. | Indian Institute of Technology Bombay, Mumbai. Prof. N. G. Shah |
| 64 | Exotic Tropical Fruit Wines-Microbrewery Demo Plant. | Institute of Chemical Technology, Mumbai. Prof. S. S. Lele |
| 65 | Catalyzing Rural Development and Women Empowerment through Implementing Eco-centric Technology Aimed at Gainful Recycling of Treated Sewages. | Indian Institute of Technology, Bombay, Powai. Prof. S. R. Asolekar |
| 66 | Development of Crude Drug Repository of genuine samples from Maharashtra. | Agharkar Research Institute, Pune. Dr.(Mrs.) A. S. Upadhye |
| 67 | Pilot Scale Demonstration of Value added Production form Surimi. | Central Institute of Fisheries Education, Mumbai. Dr. A. K. Balange |
| 68 | The Integration of Ethno Veterinary Medicine (EVM) into a Community Based Animal Health Care System. | BAIF Development Research Foundation, Pune. Dr. A. B. Pande |
| 69 | Design of an Adaptive, Error Resilient and Robust Access Control System Using Multimodal Hand Based Biometric Modalities for Multi Layered High Security Applications. | Vishwakarma Institute of Information Technology, Pune. Prof. Y. H. Dandawate |
| 70 | Extraction of Voatile oil from Orange Peels, Separation of Limonene from it and its Industrial Applications (Wealth from Waste). | Institute of Chemical Technology, Matunga, Mumbai. Prof. K. S. Laddha |

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| 71 | Development of Microencapsulation of Controlled Release Formulations of Insecticides for Agrochemical Applications. | Institute of Chemical Technology, Matunga, Mumbai. Prof. (Dr.) P. A. Mahanwar, |
| 72 | Documenting the Efficacy of Guava (Psidium Guajava) Leaf Decoction for Treating Patients with Diarrhoea. | Foundation for Medical Research, Worli, Mumbai. Dr. Tannaz Birdi |
| 73 | Pilot Study and Evaluation of Production of Green Surfactants from Non-Edible/Edible Oils and Treated Oils Seed Meals. | Institute of Chemical Technology, Matunga, Mumbai. Dr. A. P. Pratap |
| 74 | Feasibility Study of Using Solar Powered Cool Boxes to Improve the Shelf Life and Hygiene of Fish Sold in Retail Market in Mumbai. | Central Institute of Fisheries Education, Mumbai. Dr. Sanath Kumar |
| 75 | Wide Spectrum Microbial Pesticide Useful in Single Crop System. | CSIR-National Chemical Laboratory, Pune. Dr. Ashok Giri |
| 76 | Portable Intensive Care Unit Set up for Rural Health Infrastructure. | College of Engineering, Pune. Dr. Uttam Chaskar |
| 77 | Design and Development of Computer Aided Diagnosis (CAD) Tool for CT Scan Images of Lung Diseases. | Shri Guru Gobind Singji Institute of Engineering & Technology, Nanded. Prof. S. N. Talbar |
| 78 | An Inexpensive Method for the Determination of Oxalate in Urine and Assessment of Hyperoxaluria. | Sant Gadge Baba Amaravati University, Amaravati. Dr. Anita Patil |
| 79 | Gyan Shodh- Knowledge Search Engine in Marathi Language with recognition of printed or handwritten Devanagari Script as an Input. | Vishwkarma Institute of Information Technology, Pune. Dr. Manasi Patwardhan |
| 80 | Design Development And Evaluation of Monocular Vision Based Electronics Navigation Aid for Visually Impaired People. | Vishwkarma Institute of Information Technology, Pune. Dr. Kailas Patil |
| 81 | Quality Plant using Low Cost Biotechnological Approaches. | Shivaji University, Kolhapur. Dr.M. Nimbalkar |
| 82 | Skill Development through Training and Demonstration of Carp Seed Production using | College of Fishery Science, Udgir. Shri. S. R. Yadav |

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| | FRP Hatchery and Carp Seed Rearing in Farm Ponds in Marathwada region of Maharashtra. | |
| 83 | Extraction and Evaluation of Potent Natural Products of Medicinal plants of Melghat Forest for Blocking Viral Enzymes. | Sant Gadge Baba Amravati University, Amravati. Dr. K. D. Kamble |
| 84 | Development of Innovative Diagnostic Kits to Combat Antibiotic Resistance among Multi Drug Resistant Bacterial Pathogens. | Sant Gadge Baba Amravati University, Amravati. Dr. P. V. Thakare |
| 85 | Digitization and Dissemination of Lichen Specimens at Ajrekar Mycological Herbarium (AMH). | Agharkar Research Institute, Pune. Dr. Bharati Sharma |
| 86 | Production of added Products from Reetha Fruit (including Seed. | Institute of Chemical Technology, Mumbai. Prof. V. K. Rathod |
| 87 | Fortified Nutraceuticals of Acacia nilotica pods-A Healthy Product for Geriatric Patients. | Dr. Bhanuben Nanavati College of Pharmacy, Mumbai. Prof. Tabassum Khan |
| 88 | Fabrication and Development of In situ Characterization of Soil Element Determination System. | The Institute of Science, Mumbai. Dr. Pravin More |
| 89 | Empowerment of Forest Dwelling and Local Communities through Promotion of Forest Based Micro and Small Enterprises in Marathwada. | Swami Ramanand Teerth Marathwada University, Nanded. Dr. B.S. Surwase |
| 90 | An Educational Teaching and Assessment Tool for Hearing Impaired Children up to Class V for the Subjects Mathematics and English using Gesture Analysis. | Pune Institute of Computer Technology, Pune. Dr. R Shreemathy |
| 91 | Formulation, Development and Evaluation of Novel Gel for Vaginal Drug Delivery for Prevention of HIV Transmission and Contraception. | Dr. Bhanuben Nanavati College of Pharmacy, Mumbai. Dr. S.P.Sawarkar |
| 92 | Foams and Hydrogel Sponges for Chronic Wounds of Burns and Diabetes. | Dr. Bhanuben Nanavati College of Pharmacy, Mumbai. Mrs. Padmini Ravikumar |
| 93 | Feasibility Studies of Farm-Pond Based Aquaponics-Techniques in Maharashtra state | Taraporewala Marine Biological Research Station, Mumbai. Dr. P.E. Shingare |

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| 94 | Application of Plant Protanecious α Amylase inhibitor in food processing and Post-Harvest Preservation | Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. Prof. V.L. Maheshwari |
| 95 | New Directions for Research in to Diabetes in India- The Harbinger of Future Diabetes- An Adolescent and Preconception Health Perspective | B.K.L. Walawalkar Rural Medical College, Ratnagiri. Dr. Suvarna Patil |
| 96 | Preparation of Functional Fermented Milk Enriched with Bioactive Peptides obtained from the Milk of Indigenous Cow Breeds of Vidharbha and Marathwada Region of Maharashtra | College of Dairy Technology, Pusad. Dr. Prasad Patil |
| 97 | Experimental Investigation for Developing Cost Effective Instrument to Predict Remaining Useful Life of Engine Oil | Cummins College of Engineering for Women, Pune. Prof. Anand Bewoor |
| 98 | Azolla Cultivation and Promotion as a Supplementary Nutritive Food to Livestock | BAIF Pune Prof. Sadashiv D. Nimbalkar |
| 99 | Development of Nanoemulgel for arthritic inflammation and pain based on ethnomedicinal plants of Western India | Dr. Bhanuben Nanavati College of Pharmacy, Mumbai Dr. Munira Momin |
| 100 | Development of a three pronged strategy for burn wound management using plant extracts and enzymes | Smt. C.H.M. College, Ulhasnagar. Dr. Bela Nabar |