



MAHATMA PHULE KRISHI VIDYAPEETH, RAHURI

List of ongoing Ad-hoc Research Projects

| Sr. No. | Title of Project | Name of the Office | Name of the funding Agency | Project outlay (Rs. Lakhs) |
|---------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------|----------------------------|
| 1 | Developing moisture stress (Drought) and salinity tolerant sugarcane genotypes | Central Sugarcane, Research Station, Padegaon, Tal. Phaltan, Dist. Satara | Government of Maharashtra | 129.50 |
| 2 | Development of High yielding & nutritive <i>rabi</i> sorghum varieties suitable for mechanical harvesting | Sorghum Improvement Project, MPKV, Rahuri | Government of Maharashtra | 106.00 |
| 3 | Establishment of Plant Disease Diagnostic Centre at Mahabaleshwar | RWRRS, Mahabaleshwar | Government of Maharashtra | 18.00 |
| 4 | Introgression of Bt genes in cotton for development of BT cotton Variety | Cotton Improvement Project, MPKV Rahuri | Government of Maharashtra | 450.00 |
| 5 | Establishment of State Level Gene Bank Project | Dept. of Agril. Botany | Government of Maharashtra | 1000.00 |
| 6 | Strengthening of Oilseeds Research Station, Jalgaon | Oilseeds Research Station, Jalgaon | Government of Maharashtra | 88.00 |
| 7 | Centre of Excellence on Digital Technologies for Smart and Precision Agriculture, MPKV, Rahuri | Department of Agriculture Engineering, MPKV, Rahuri | Government of Maharashtra | 476.00 |
| 8 | Strengthening of Research for Sustainable Yield and Value addition in Soybean | ARS, Kasbe Digraj | Government of Maharashtra | 450.00 |
| 9 | Ground Nut project | ARS, Kasbe Digraj | Government of Maharashtra | 38.00 |
| 10 | Strengthening of Research on reclamation of salt affected soils | ARS, Kasbe Digraj | Government of Maharashtra | 55.00 |
| 11 | Amelioration of Crop protection, crop production and productivity by application of Nanotechnology | Department of Biochemistry | Government of Maharashtra | 375.00 |
| 12 | Metabolomics profiling for knowledge based breeding of crop plants. | Department of Biochemistry | Government of Maharashtra | 115.00 |

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| 13 | Advancement of research in pesticide residues to meet the international requirement. | Department of Entomology | Government of Maharashtra | 450.00 |
| 14 | Indigenous Cattle Research cum Training Center | College of Agriculture, Pune | Government of Maharashtra | 200.00 |
| 15 | Research and Development in Jaggery Process and Product Development | Regional Sugarcane And Jaggery Research Station Kolhapur | RGSTC, Govt. of Maharashtra Mumbai | 79.00 |
| 16 | Bamboo Plantation Project | AICRP on Agroforestry; NAIP Agro Forestry: and SLBTC, MPKV, Rahuri | Maharashtra Bamboo Development Board Nagpur, | 313.91 |
| 17 | Development of Relationship Between Sediment Loss and Carbon Loss from Watersheds | Department of Soil & Water Conservation Engineering, MPKV, Rahuri. | Aadarsh Gav Sankalpa Va Prkalpa Samiti, Govt. of Maharashtra | 80.30 |
| 18 | Characterization of chickpea germplasm resource to accelerate genomic assisted crop improvement | Pulses Improvement Project, MPKV Rahuri | Ministry of Science & Technology | 23.10 |
| 19 | Germplasm characterization and trait discovery in wheat using genomics approaches and its integration for improving climate resilience, productivity and nutritional quality | State Level Biotechnology Centre, MPKV, Rahuri | Department of Biotechnology (DBT), Govt. of India | 51.24 |
| 20 | Exploiting Genetic Diversity for Improvement of Safflower through Genomic-Assisted Discovery of QTLs/Genes Associated with Agronomic Traits | AICRP on Safflower, Solapur | Dept. of Biotechnology, New Delhi | 48.52 |
| 21 | Exploitation of Genetic and genomic resources for improvement of Niger (<i>Guizitia Abssinica</i>) | ZARS, Igatpuri, AICRP on Niger | Dept. of Biotechnology, New Delhi | 48.74 |

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| 22 | DUS Testing of Chickpea | Pulses Improvement Project, MPKV Rahuri | PPV & FRA New Delhi | 6.28 |
| 23 | DUS Project Sorghum | Sorghum Improvement Project, MPKV, Rahuri | PPV&FRA, Ministry of Agri., Govt. of India, New Delhi, | 5.93 |
| 24 | DUS Testing Centre for Cotton | Cotton Improvement Project, MPKV, Rahuri | PPV&FRA, Ministry of Agri., Govt. of India, New Delhi, | 8.58 |
| 25 | DUS Testing of Pearl millet | ICAR-AICRP on Pearl millet, AC Dhule | PPV&FRA, New Delhi | 6.07 |
| 26 | Socio- Economic Empowerment of Farmers through Farming System Interventions for Sustainable Agriculture Development in Ahmednagar District. | Communication Centre | Agriculture Technology Research Institute, Pune | 18.56 |
| 27 | Establishment of Strawberry Research Station at Mahabaleshwar | RWRRS, Mahabaleshwar | RKVY | 343.63 |
| 28 | Establishment of Model Genome Club For Sustainable Agriculture Development | Dept. of Agril. Botany | RKVY | 43.90 |
| 29 | Rashtriya Krishi Vikas Yojana - Solar Power Central Pivot Irrigation System for Climate Smart Agriculture | Interfaculty Department of Irrigation Water Management | Rashtriya Krishi Vikas Yojana (RKVY) | 256.00 |
| 30 | Strengthening of Soil Microbiology Laboratory at ZARS, Solapur for Commercial Production of Phule <i>Trichoderma</i> Plus and Decomposing Culture. | Chief Scientist & ADR, ZARS, Solapur | RKVY through Govt. of Maharashtra. | 60.00 |
| 31 | Production and post harvest value chain millets for sustainable growth of farmers. | Department of Agronomy | RKVY through Govt. of Maharashtra. | 200.00 |
| 32 | ATMA | KVK, Mohol Tal. Mohol Dist. Solapur | Government of Maharashtra | 3.35 |
| 33 | PMFME | KVK, Mohol Tal. Mohol Dist. Solapur | Government of Maharashtra | 12.71 |
| 34 | Panjabrao Deshmukh Natural Farming Mission | KVK, Mohol Tal. Mohol Dist. Solapur | Government of Maharashtra | 15.84 |

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| 35 | Awareness and Extension Services on Best Farm Practices for Cotton Farmers to Improve Quality, Yield and Sustainability | Cotton Improvement Project, MPKV Rahuri | Cotton Corporation of India | 8.00 |
| 36 | Pilot Project For Crop Diversification | AICRP on IFS, MPKV, Rahuri | ICAR- IIFSR, Modipuram , U.P | 118.00 |
| 37 | Center for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management | Department of Agriculture Engineering MPKV, Rahuri | World Bank and ICAR | 2490.00 |
| 38 | CSS-MIDH Programme | Medicinal and Aromatic Plants Project, MPKV, Rahuri | DASD, Calicut, Kerala | 21.95 |
| 39 | Gramin Krishi Mausam Sewa | Department of Agronomy | IMD, New Delhi | 12.82 |
| 40 | Precision Farming Development Centre, MPKV Rahuri | Department of IDE, MPKV Rahuri | NCPAH New Delhi | 62.53 |
| 41 | Gramin Krishi Mousam Seva | ZARS, Igatpuri, GKMS | IMD, New Delhi | 15.24 |
| 42 | Gramin Krushi Mausam Sewa AMFU, Kolhapur | ZARS, Kolhapur | IMD, New Delhi MOES | 12.82 |
| 43 | Trainings on Scientific Beekeeping, Development of quality nucleus stock centre and plantation of bee friendly plant/flora etc. in Western Maharashtra | Department of Entomology, MPKV, Rahuri | National Bee Board, New Delhi | 69.86 |
| 44 | Evaluation of Maize Under Managed Drought / Heat Stress | AICRP on Maize, Kasba-Bawada, Kolhapur | CIMMYT | 8.25 |
| 45 | Seed treatment based trial for fall armyworm management | AICRP on Maize, Kasba-Bawada, Kolhapur | FAO - IIMR, Ludhiana | 0.66 |
| 46 | Standardizing drone spraying protocols | Department of Farm machinery and Power Engineering | M/s. Fowler Westrup Ind. Ltd | 19.80 |
| 47 | CRP-Biofortification in Pearl millet | ICAR-AICRP on Pearl millet, AC Dhule | IIRR, Hyderabad | 6.30 |

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| 48 | DEE Strengthening MPKV, Rahuri | Director Extension Education MPKV Rahuri | ATARI Pune | 3.00 |
| 49 | All India Coordinated Research Project | AICRP on Biocontrol, Pune | ICAR-NBAIR, Bangalore | 46.40 |
| 50 | Automated Canal Irrigation System for Efficient and Smart Irrigation Water Management (Canal Automation Project) | Department of Agriculture Engineering, MPKV, Rahuri | ICAR (100%) | 6.02 |
| 51 | IoT enabled sensor Based Smart Irrigation Water Management (Smart Irrigation Project) | Department of Agriculture Engineering, MPKV, Rahuri | ICAR (100%) | 12.36 |
| 52 | Krishi Vigyan Kendra, Borgaon Tal. Dist. Satara -SAP | KVK, Borgaon Tal. Dist. Satara | ICAR-ATARI, Pune Zone-VIII | 179.24 |
| 53 | CROPSAP | KVK, Borgaon Tal. Dist. Satara | Government of Maharashtra | 1.59 |
| 54 | Dr. Panjabrao Deshmukh Natural Farming Mission | KVK, Borgaon Tal. Dist. Satara | ATMA, Gov of Maharashtra | 16.73 |
| 55 | KVK-Seed Hub | KVK, Mohol Tal. Mohol Dist. Solapur | ICAR- ATARI, Pune | 7.80 |
| 56 | KVK-CBBO | KVK, Mohol Tal. Mohol Dist. Solapur | ICAR- ATARI, Pune | 4.00 |
| 57 | DAMU | KVK, Mohol Tal. Mohol Dist. Solapur | ICAR- ATARI, Pune | 17.92 |
| 58 | Spectral response based breeding in different crops for screening of genotypes for biotic and abiotic stresses | State Level Biotechnology Centre, MPKV, Rahuri | RGSTC Mumbai | 5.0 |
| 59 | Development of compost enrichment Technology | College of Agriculture, Pune | RGSTC Mumbai | 6.5 |
| 60 | Demonstration, training and evaluation of MPKV developed IoT based irrigation management technologies | Department of Agril. Engineering, MPKV, Rahuri | RGSTC Mumbai | 5.0 |
| 61 | Design, Development and Performance Analysis of Solar Powered Agricultural Machine for Small Farmer | Department of FMPE, MPKV, Rahuri | RGSTC Mumbai | 5.0 |
| 62 | Active edible coating to improve storability of a fresh agricultural products | College of Agriculture, Kolhapur | RGSTC Mumbai | 5.0 |

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| 63 | Biochemical studies for extending shelf life of sugarcane juice with different packaging material | Department of Biochemistry, MPKV, Rahuri | RGSTC Mumbai | 5.0 |
| 64 | Evaluation of cane productivity, sugar recovery, SOC-sequestration and soil health under conservative sugarcane ratoon management system in semi-arid tropical environment of different sugar recovery zones of Maharashtra | College of Agriculture, Pune | RGSTC Mumbai | 8.0 |
| 65 | Response of Animals under Change in climatic condition and Strategies for better Adaptation and Mitigation for Sustainable Livestock Production | College of Agriculture, Pune | RGSTC Mumbai | 5.0 |
| 66 | Development of methodology for irrigation water management for sugarcane crop using ground/ drone/ satellite based spectral data. | Department of IDE, MPKV, Rahuri | RGSTC Mumbai | 5.50 |