

Govt. of India Projects

New projects sanctioned in 2020-21	9
Continued projects	53
Total	62

New - GOI Projects 2020-21

Sl. No.	Title of the Project	DR file No.	Name and Address of PI	Funding agency	Year of sanction of the project	Duration of the project	Total outlay of the project (Rs. in lakhs)
1	Mainstreaming rice landraces diversity in varietal development through genomic predictions: A model for large-scale utilization of gene bank collections of rice	GOI-425	Dr. M. P. Rajanna, Sr. Rice Breeder & Scheme Head, AICRP on Rice, ZARS, VC Farm, Mandya - 571 405	Dr. Ashok Kumar Singh, Director, Indian Agricultural Research Institute, New Delhi - 110 012	2020-21	5 years	127.079
2	CRISPR/Cas-mediated multiplex genome editing of disease and herbicide tolerance traits in rice for improved performance under aerobic and irrigated conditions	GOI-426	Dr. M.S. Sheshshayee, Professor, Dept. of Crop Physiology, CoA, GKVK	Dr. Onkar N. Tiwari, Scientist 'E', Dept. of Biotechnology, Ministry of Science & Technology (Govt. of India), 516, 5th Floor, Block-3, CGO Complex, Lodhi Road, New Delhi 110 003	2020-21	3 years	270.94

3	Phenotyping water uptake and water use efficiencies of different dual-purpose tomatoes	GOI-427	Dr. M.S. Sheshshayee, Professor, Dept. of Crop Physiology, CoA, GKVK	Dr. BindumadhavaRao H, Scientist - Plant Physiology, World Vegetable Centre, C/o ICRISAT, Patancheru 502 324, Telangana, India. Ph: +91 40 30713761	2020-21	6 months	7.22
4	Development of valuable products from stubble waste/agricultural straw by bio refinery approach and field trials	GOI-428	Dr. RinkuVerma, Asst. Prof., Dept of Forestry & Environmental Sciences, CoA, GKVK	Dr. Krishna Kanth Pulicheria, Scientist 'D', Minsitry of Science & Technology, Dept. of Science & Technology, Technology Bhavan, New Mehrauli Road, New Delhi	20-21		2.00
5	Functional characterization of Lysin Motif (LysM) containig effector proteins of Magnoportheoryzae, triggers immunity against the rice blast	GOI-429	DBT - RA: Dr. T.N. Shiva Kumara Mentor : Dr. M.K. Prasannakumar, Assoc. Prof., Dept. of Pl. Pathology, CoA, GKVK	Prof. Arun Kumar, National Program Coordinator, DBT-RAPrograme in Biotechnology & Life Sciences, New Biological Sciences Building, Gound Floor, A wing, Indian Institute of Sciences, Bangalore - 560 012	2020-21	2 years	12.28

6	Prospecting novel antimicrobial peptides and synthesis of analogues of insect antimicrobial peptides: Relevance for enhanced antimicrobial activity and stability	GOI-430	Dr. B. N. Ramesh, Assistant Professor of Biotechnology, Dept. of Agri. Biotechnology, CoA, Hassan - 573 225	Dr. T. Thangaradjou, Scientist 'E', Science & Engineering Research Board, DST, 5 & 5A, Lower Ground Floor, Vasant Square Mall, Sector-B, Pocket-5, VasantKunj, New Delhi - 110 070	2020-21	3 years	10.42
7	Systematic studies on shoot flies of Artherigoninae (Muscidae:Diptera) From India	GOI 431	Prabhu.C.Ganiger, Assisstant Professor og Entomology, AICRP on Small Millets, UAS, GKVK	Harish Kumar Scientist E, Science and Engineering Research Board 5 & 5 A, Lower Ground Floor Vasant Square Mall Sector B, Pocket 5 VasantKunj, New Delhi 110 070	20-21	3 years	42.00
8	The Rural Urban Interface of Bangalore : A Space of Transitions in Agriculture, Economis and Society	GOI-381 (PhaseII)	Dr. K.B. Umesh, Prof. & Univ. Head, Department of Agril. Economics, College of Agriculture, GKVK	Manish Rana, Scientist 'E', Ministry of Science & Technology, Department of Biotechnology, Block 2, 7th Floor, CGO Complex, Lodhi Road, New Delhi - 110 003	2020-21	3 years	512.83

9	Development of guidelines to conduct DUS test in brown top millet (<i>Bracharia ramosa</i> L.)	GOI-432/PPV & FR	Dr. T.E. Nagaraja, Prof. & Scheme Head, AICRP on Small Millets, UASB	Dr. T.K. Nagarathna, Registrar, Protection of Plant Varieties & Farmers' Rights Authority, Ministry of Agriculture & Farmers Welfare, Govt. of India, NASC Complex, DPS Marg, Opp. Todapur Village, New Delhi - 110 012	2020-21	2 years	18.00
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GOI –Continued Projects

Sl. No.	Title of the Project	DR file No.	Name and Address of PI	Funding agency	Year of sanction of the project	Duration of the project	Total outlay of the project (Rs. in lakhs)
1	Use of plastics in Horticulture.	GOI-1	Dr. MahabaleshwarHegde, Prof., Dept of Horticulture, UASB	Dept. of Agriculture and Cooperation	1984	Long term	7.74
2	Comprehensive scheme for studying cost of cultivation of principal crops	GOI-2	Dr. G.S. Mahadevaiah, Prof. & Head, Dept. of Agri. Economics, CoA, UASB	DES, Ministry of Agriculture	1971	Long term	86.00
3	Mega Seed Project	GOI-8	Special Officer (Seeds), National Seed Project, GKVK, Bengaluru				
4	Development of Medicinal and Aromatic plants	GOI-39	Dr. M. Vasundhara, Prof. Dept. of Horticulture, UASB	DASD, Ministry of Agriculture and Farmer's Welfare		Long term	
5	New Title [GraminKrishiMausamSewa]	GOI-67	Dr. H.S. Shivaramu, Prof. &Scheme Head, AICRP of Agro-Meterology, UASB	India Meteorological Dept.	1996	Long term	1.48 annually
6	Forecasting Agricultural Output using Space, Agrometeorology and land based observation (FASAL)	GOI -279	Dr. H.S. Shivaramu, Prof. &Scheme Head, AICRP of Agro-Meterology, UASB	India Meteorological Dept.	2010-11	Long term	1.17
7	Establishment if "Centre of Excellence for small millets under INSIMP scheme of RKVY during 2011-12 at GKVK campus"	GOI-302	Dr. K.B. Suresha, Asst. Prof., AICRP on PHET, UASB		2012-13		85.37
8	Developing guidelines for conduct of DUS test for Small millets, (finer millet, foxtail millet, kodo millet,	GOI-306	Dr. Jayaramgowda, Prof., & Scheme Head, AICRP on Small Millets, UASB		2012-13	1 year	13.74

	little millet, barnyard millet and proso millet)''						
9	Upgradation of Infrastructural Facilities for running B. Tech. (Food Science and Technology) degree programme at Agricultural College, Hassan	GOI-326	Mr. ViswanathaAngadi, Asst. Professor, Dept. of Food Microbiology, College of Agriculture, Hassan		2013-14	5 years	89.58
10	Introgression of begomovirus resistance genes in tomato (Solanumlycopersicum L.) using MAS and Genomic approach.	GOI-352	Dr. M. Udayakumar, Prof. (Retd.), and Coordinator, Dept. of Crop Physiology , UAS, GKVK	DBT, New Delhi	2014-15	5 years	22.90
11	Identifying traditional rice varieties responsive for cold and heat tolerance genes by Marker Assisted Selection	GOI-362	Dr. A. Mohan Rao, Prof., Dept. of GPB, CoA, UASB	UGC, New Delhi	2015-16	3 years	13.375
12	UAS(B) Sub Project : Chemical Ecology of the North East Region (NER) of India : A Collaborative Programme Linking NER and Bengaluru Researchers	GOI-363	Dr. K. Chandrasekhara, Prof., Dept. of Entomology, UAS, GKVK, Bengaluru	DBT, New Delhi	2015-16	5 years	37.32
13	Cloning and Characterization and experssion of BmNPV Antiviral Proteins (Serine protease and Lipase) in Mulberry plants	GOI-364	Dr. N. Nagesha, Asst. Prof. of Biotechnology, Dept. of Agril. Biotechnology, COA, Karekere, Hassan nageshbt@gmail.com	SERB, New Delhi	2015-16	3 years	26.28
14	Maintenance, Characterization and Use of EMS Mutants of Upland	DBT/GOI-366	Dr. M.S. Sheshahayee, Prof., Dept. of Crop Physiology, UAS, GKVK	DBT, New Delhi	2015-16	5 years	98.43

	Variety Nagina 22 for Functional Genomics in Rice-Phase II						
15	Assessing the genetic structure of hilltop populations (shola): Is there any gene-flow across or they are genetically insularised? A study using nuclear and chloroplast molecular markers	GOI-367	PI: Ms. Chaithra G.N., Agricultural College, Hassan. Co-PI: Dr. BhausahTambat, Asst. Prof., Dept. of Crop Physiology, CoA. UAS(B), Hassan	SERB, New Delhi	2015-16	1 year	15.00
16	Taxonomy Conservation assessment and utilization of endemic Lagumes of Western Ghats	GOI-368	Dr. M. Sanjappa, CISR Emeritus Scientist, CoA, UAS, GKVK	Indian National Science Academy, Bahadur Shah ZafarMarg, New Delhi	2015-16	3 years	4.60
17	Development of Distinctness, Uniformity and Stability (DUS) guidelines for Jackfruit (ArtocarpusheterophyllusLa mk.) and registration of farmers varieties	GOI-374	Dr. Shyamamma S., Professor, Dept. of Biotechnology, UAS, GKVK, Bengaluru	PPV & FR, New Delhi	2016-17	3 years	27.00
18	Understanding molecular mechanisms of Capsicum annum L. and Cucumber mosaic virus interaction through transcriptomics	GOI-376	Dr. C.N. Lakshminarayana Reddy, Asst. Prof., Dept. of Pl. Pathology, CoS, Chintamani	SERB, New Delhi	2016-17	3 years	26.76
19	Environmental friendly Technology for Co-recycling of Seri-Agri-Plastic waste"	GOI-378	Dr. RinkuVerma, Asst. Professor, Dept. of Farm Forestry &Enviromental Science, Sericulture College, Chintamani - 563 125	DST, New Delhi	2016-17	3 years	9.35

20	DNA barcoding of Ferns of South India for genetic diversity studies	GOI-384	Dr. C. Suneetha, Assistant Professor, Dept. of Horticulture, CoA, HASSAN - 573 225	SERB, New Delhi	2016-17	3 years	26.00
21	Collection, taxonomy, molecular characterization and Conservation of Musa Germplasm from North-eastern Region (NER) of India	GOI-385	Dr. M. Sanjappa, INSA Senior Scientist, Botanical Garden, UAS, GKVK, Bangalore	DST, New Delhi	2016-17	3 years	18.61
22	Functional characterization of oxidative stress responsive transcription factors from contrasting rice genotypes by adopting chemical genomics approach as an alternate option	GOI-387	Dr. M. Udaykumar (Retd), Dept. of Crop Physiology, UASB and Dr. NatarajaKaraba is the Co-PI of the project and the financial matters are dealt by Dr. NatarajaKaraba, Prof. of Crop Physiology, UASB	SERB, New Delhi	2017-18	3 years	37.58
23	Role of MSR Proteins in improving seed viability and seedling survival under stress conditions in Ground nut (Arachishypogaea)	GOI-394	Dr. RagulaSeenaiah, under the mentorship of Dr. A.G. Shankar, Professor, Dept.of Crop Physiology, UAS, GKVK, Bengaluru - 65, M: 9703027067	SERB, New Delhi	2017-18	2 years	19.20
24	Creating genetic variability in rice by disrupting DNA mismatch repair gene MSH2 using CRISPR/Cas 9 to identify drought tolerant and high yielding types	GOI-395	Dr. Kiranmai Kurnool, under the mentorship of Dr. M. Udayakumar, Prof. (Retd.) along with Dr. A.G. Shankar, Professor, Dept. of Crop Physiology, UAS, GKVK, Bengaluru- 65	SERB, New Delhi	2017-18	2 years	19.20
25	Thermomorphogenic effects on etiolation and Tuberization in Potato: Characterizing the key regulatory candidate genes	GOI-396	Dr. Appanna V. Koppad, under the mentorship of Dr. B. Mohan Raju, Professor, Dept. of Crop Physiology, UAS, GKVK, Bangalore - 65	SERB, New Delhi	2017-18	2 years	19.20

26	Dissection of molecular pathways regulating plant responses to a combination of drought and heat stress in rice	GOI-397	Dr. Ramegowda Hosahally Venkatesh Gowda, Ramanujan Fellow, Dept. of Crop Physiology, UASB under the mentorship of Dr. N. Nataraja Karaba, Prof. Dept. of Crop Physiology, UASB	SERB, New Delhi	2017-18	5 years	89.00
27	Development and evaluation of Pongamia pod decorticator and mini vegetable seed oil extraction machine	GOI-398	Mr. Rajesh Kumar, SRF, Dept. of Forestry & Environmental Science, UAS, GKVK, Bengaluru - 560 065 under the mentorship of Dr. K.T. Prasanna, Professor, Dept. of Forestry & Environmental Science, UAS, GKVK, Bengaluru	DST, New Delhi	2017-18	3 years	26.23
28	Functional characterization of transcription factors in rice (<i>Oryza sativa</i>) by chemical genomic approach	GOI-399	Ms. Vanitha. P.A., Dept. of Crop Physiology, UASB under the mentorship of Dr. M. Udaykumar, Prof. Retd., Dept. of Crop Physiology, UASB	DST, New Delhi	2017-18	3 years	18.30
29	Diversity and geographical distribution of symbionts in Aphids on different host plants : Sympatric association and infection frequency	GOI-401	Dr. B. Shivanna, Asst. Prof., Dept. of Agri. Entomology, CoA, UASB	SERB, New Delhi	2017-18	3 years	36.41
30	Towards Development of Nutritional Alternative to Infant Feeding - Relevance of Donkey Milk	GOI-402	Dr. C.T. Ramachandra, Assoc. Prof., Dept. of Agri. Engineering, CoA, UASB	SERB, New Delhi	2017-18	3 years	34.36
31	Indian Bioresource Information Network (IBIN) Geoportal Phase - III :	GOI-403	Dr. s. Sumithamma, Professor, Dept. of Entomology, UAS, GKVK, Bengaluru - 65	DBT, New Delhi	2017-18	3 years	173.33

	Enhancing BioResource Services, Institutional Linkages and Outreach						
32	Detection, quantification and changing scenario of virulent population of Asian rice gall midge, <i>Orseolia oryzae</i> (Wood-Mason) (Diptera : Cecidomyiidae) in new locations of Southern and Coastal regions and management strategies to overcome its menace in Karnataka	GOI-403(A)	Dr. L. Vijay Kumar, Assistant Professor of Entomology, College of Agriculture, VC Farm, Mandya	SERB, New Delhi	2017-18	3 years	34.36
33	Aflatoxin removal potency of lactic acid bacteria : Studies on mechanism of action and assessment of aflatoxin B1 reduction ability in food models	GOI-404	Mr. Abhishek Rayasandra Umesh, NPDF, Dept. of Agri. Microbiology, UASB under the mentorship of Dr. Suvarna V. Chavannavar, Professor, Dept. of Agri. Microbiology, UASB	SERB, New Delhi	2018-19	2 years	19.20
34	Discovery and validation of growth and abiotic stress related genes in mulberry	GOI-407 (3A)	Dr. N. Nataraja Karaba, Professor, Dept. of Crop Physiology, UAS, GKVK, Bengaluru - 560 066	DBT, New Delhi	2018-19	3 years	48.01
35	Development of new generation transgenic mulberry for drought stress tolerance and characterization of existing transgenic mulberry for confined field trials	GOI-407 (3B)	Dr. N. Nataraja Karaba, Professor, Dept. of Crop Physiology, UAS, GKVK, Bengaluru - 560 066	DBT, New Delhi	2018-19	3 years	29.36
36	Discovery of QTL to drought	GOI-	Dr. M. S. Sheshshayee, Professor,	DBT, New Delhi	2018-19	3 years	41.67

	adaptive traits by association mapping in Mulberry	407(2B)	Dept. of Crop Physiiology, UAS, GKVK, Bengaluru - 65				
37	Sugar-Mimic Alkaloids in Mulberry and their role in modulating host plant-insect interactions	GOI-407(4B)	Dr. N. NatarajaKaraba, Professor, Dept. of Crop Physiology, UAS, GKVK, Bengaluru - 560 066	DBT, New Delhi	2018-19	3 years	23.61
38	Multigene approach for the control of fungal disease Turcicum Leaf Blight of Maize (Zea mays)	GOI-408	Dr. N. Nagesha, Assistant Professor (Biotechnology), Dept. of Plant Biotech.,CoA, GKVK, UASB	DST, New Delhi	2018-19	3 years	39.96
39	Response to heat stress in maize during microsporogenesis and its implications in crop improvement	GOI-409	Dr. NeethaJayaram, Women Scientist, Dept. of Pl. Biotechnology, GKVK, UASB under the mentorship of Dr. R.L. Ravikumar, Professor, Dept. of Pl. Biotechnology, CoA, GKVK, Bengaluru	DST, New Delhi	2018-19	3 years	26.80
40	Microtubule-Based Mechanisms of Colchicine Resistance of the Producing Plant Gloriosasuperba and Insect Feeder Polytelagloriosae	GOI-410	Dr.B.Shivanna, Professor & Head, Dept. of Agril. Entomology, CoA, GKVK	DST, New Delhi	2018-19	3 years	58.61
41	Characterization, evaluation of genetic resources for genetic enhancement and improvement of Minor Pulses	GOI-411	Dr. Niranjana Murthy, Professor & Scheme Head, AICRN on Potential Crops, RIOF Building, UAS, GKVK, Bengaluru	DBT, New Delhi	2018-19	3 years	82.16
42	Remote Sensing Based Regional Leaf Area Index (LAI) Retrieval using Radiative Transfer Model	GOI-412	Dr. M. N. Thimmegowda, Associate Professor, AICRP for Dryland Agriculture, UAS, GKVK, Bengaluru	NRSC, ISRO	2018-19	2 years	4.00

43	Source-sink dynamics of phytohormones and metabolites in aerobic rice under a combination of drought and heat stress at reproductive stage	GOI-414/ NPDF	Mariavera Jesus Dacosta, NPDF, Dept. of Crop Physiology, CoA, GKVK under the mentorship of Dr. NatarajaKaraba, Professor, Dept. of Crop Physiology, CoA, GKVK	SERB, New Delhi	2018-19	2 years	19.20
44	Discovery of genes regulating constituent physiological traits of Water Use Efficiency in rice using automated mini-lysimeter and imaging technologies	GOI-415	Dr. H.V. Ramegowda, Ramanujan Fellow, Dept. of Crop Physiology, CoA, GKVK under the mentorship of Dr. NatarajaKaraba, Professor, Dept. of Crop Physiology, CoA, UASB	SERB, New Delhi	2018-19	3 years	49.97
45	Propensity to respond to drought determines Acquired tolerance - A molecular and physiological characterization of a panel of Rice germplasm to discover eQTL and expression Markers for acquired tolerance traits	GOI-416	Dr. M. S. Sheshshayee, Prof., Dept. of Crop Physiology, College of Agriculture, GKVK, Bengaluru	SERB, New Delhi	2018-19	3 years	76.16
46	Introgression of drought adaptive traits to improve field performance of rice under aerobic conditions: An approach to accelerate breeding through doubled haploidization	GOI-417	Dr. B. Mohan Raju, Professor, Dept. of Crop Physiology, College of Agriculture, GKVK, Bengaluru - 65	SERB, New Delhi	2018-19	3 years	32.72
47	Identification of molecular players underlying tuberization in potato under elevated ambient	GOI-418	Dr. GeethaGovind, Assistant Professor (Crop Physiology), Director of Instruction, College of Agriculture, Post Box No. 39,	Dr. T. Thangaradjou, Scientist 'E' Science & Engineering Board, 5&7 5A,	2019-20	2 Years	30.80

	temperature		Karekere, Hassan	Lower Ground Floor, Vasant Square Mall, Sector-B, Pocket-5, VasantKunj, New Delhi			
48	Identification of QTLs for subcomponent traits of WUE through strategic utilization of whole genome sequences and accurate phenotyping in rice	GOI-419/NASF	Dr. M. S. Sheshshayee, Professor, Department of Crop Physiology, CoA, UASB	Dr. SanjeevSaxena, ADG (NASF), ICAR, National Agricultural Science Fund (NASF), KrishiAnusandhanBhavan-I, Pusa Campus, New Delhi - 110 012	2019-20	3 years	103.53
49	Molecular and physiological validation of specific differential expressed genes governing acquired tolerance traits in Rice	GOI-420/NPDF	Dr. Jeeya Jaya Krishnan, NPDF under the mentorship of Dr. M.S. Sheshshayee, Prof., Dept. of Crop Physiology, CoA, UASB	Dr. T. Thangaradjou, Scientist 'E' SERB, Vasant Square Mall, Sector-B, Pocket-5, VasantKunj, New Delhi	2019-20	2 years	19.20
50	Studies on taxonomic and genetic diversity of Magnaporthe grisea causing blast disease on small millets across geographical locations in India	GOI-421	Dr. K. B. Palanna, Jr. Pathologist, AICRP on Small Millets, UASB	Dr. Pramod Kumar Prasad, Scientist 'C' , 5 & 5A, Lower Ground Floor, Vasant Square Mall, New Delhi	2019-20	3 years	37.50
51	Mapping of neck blast disease resistance genes in rice through next generation sequencing	GOI-422	Dr. H.B. Mahesh, Assistant Professor, Department of Genetics & Plant Breeding, CoA, VC Farm, Mandya	Dr. T. Thangaradjou, Scientist 'E' SERB, Vasant Square Mall, Sector-B, Pocket-5, VasantKunj, New	2019-20	2 Years	32.97

				Delhi			
52	Upgradation of Millets Based value Added food products and its process technology	GOI-423	Dr. K. B. Suresha, Asst. Prof., Dairy Science, AICRP on PHET, UASB	N. G. Lakshminarayan, Chief Business Development, NRDC, Ministry of Science & Technology, 20-22, Zamroodpur Community Centre, Kailash Colony Extension, New Delhi	2019-20	1 year	10.00
53	Pre-Commercialization Trials and Consumer Acceptability studies of millet based cereals	GOI-424	Dr. K. B. Suresha, Asst. Prof., Dairy Science, AICRP on PHET, UASB	N. G. Lakshminarayan, Chief Business Development, NRDC, Ministry of Science & Technology, 20-22, Zamroodpur Community Centre, Kailash Colony Extension, New Delhi	2019-20	1 year	2.00