

LIST OF ONGOING INSTITUTE PROJECTS 2024-2025

S. No.	Institute Project Code	Name of Project & Investigators
CROP IMPROVEMENT		
1	Br.9	Genetic improvement of FCV tobacco genotype Dr. K. Sarala and Dr.K.Prabhakara Rao Associates: Dr.C.Nanda, Dr. K. Gangadhara, Sri M. Srinivas, Sri K. Shravan Kumar, Smt. P. Srilakshmi and Sri A. Mutyam
2	Br.20	Augmentation, characterization, evaluation, conservation and documentation of tobacco genetic resources Dr.J.J.Rajappa, Dr.C.Nanda, Dr.S.Ramakrishnan, Dr.K.Gangadhara, Dr.K.Sarala Associates: Dr.K.Prabhakara Rao, Dr. M. Sheshu Madhav, Smt. B. Sailaja Jayasekharan, Smt. K. Santinandivelu and Sri P.Trinad
3	Biotech-12	Identification of genomic regions conferring resistance to fusarium wilt for accelerating the development of wilt resistant tobacco cultivars Dr.M.Sheshu Madhav, Dr.K.Sarala, Dr.K.Prabhakara Rao, Dr.C.Nanda, Dr.S.Ramakrishnan, Dr. S.Madhavan (DFR) and Dr.H.S.Mahesha Associate: Sri S.Bhaskar Naik
4	Biotech-13	Genome editing to reduce the Tobacco Specific Nitrosamines (TSNAs) towards the production of safer tobacco Dr. K. Prabhakara Rao, Dr.K.Sarala, Dr.M.Sheshu Madhav and Dr.Anindita Paul Associates: Sri K. Giribabu and Sri S.Bhaskar Naik
5	CBrR-1	Genetic improvement of chilli types amenable for value added products and GI tagging of Durgada chilli Dr. B. Rajasekhar Reddy, Dr.M. Sheshu Madhav, Dr. H.S. Mahesha and Dr. K. Suman Kalyani Associates: Dr. K. Sarala, Dr. L.K. Prasad and Dr. Anindita Paul
6	ABrR-1	Genetic improvement of Ashwagandha for root yield and Withaferin A content Dr. B. Rajasekhar Reddy, Dr. M. Sheshu Madhav and Sri K. Viswanatha Reddy Associates: Dr. K. Sarala, Dr.P. Manivel, Dr.Anindita Paul, Dr. K. Suman Kalyani Dr.H.S. Mahesha and Smt. K. Santinandivelu
7	JL.Br.2.1	Evolving flue-cured tobacco varieties having high yield and better quality suitable for NLS area of Andhra Pradesh Dr. K. Sarala and Dr.K.Prabhakara Rao

		Associates: Sri D. Durga Rao, Sri K. Giribabu and Sri K. Shravan Kumar
8	KBr.6	Breeding FCV tobacco varieties for yield and quality characters under SLS conditions Dr. K.Gangadhara, Dr. M. Anuradha and Dr. J. J. Rajappa Associates: Dr. K. Sarala, Dr. C. Nanda, Smt. B. Sailaja Jayasekharan and Sri K.Vidyasagar
9	Br.19	Breeding for developing high yielding and /or disease resistance varieties/ hybrids and evaluation of advanced breeding lines of FCV tobacco suitable to Karnataka light soil (KLS) region Dr. C. Nanda, Dr.J.J.Rajappa, Dr.M.Mahadevaswamy and Dr.S.Ramakrishnan Associate : Dr.K.Gangadhara
10	B.50	Breeding non-FCV tobacco types for desirable traits Dr. K.Gangadhara, Dr.K.Sarala, Dr.P.Manivel and Dr.M.Kumaresan Associates: Dr.K.Prabhakara Rao, Sri M.Srinivas and Sri K.Shravan Kumar
11	B.51	Breeding of chewing tobacco for yield, quality and resistance to biotic stresses Dr.P.Manivel, Dr.M.Kumaresan, Dr.J.J.Rajappa, Dr.M.Venkatesan and Sri R.Rajendran Associates:Dr.K.Sarala and Dr.K.Prabhakara Rao
12	ABrAV-1	Germplasm evaluation, value addition and development of good agricultural practices of Ashwagandha (Withania somnifera Dunal L.) Dr.P.Manivel, Dr.M.Kumaresan and Dr. B.Rajasekhar Reddy Associates: Dr.K.Sarala, Dr.K.Prabhakara Rao, Dr.Anindita Paul, Dr. L.K.Prasad Dr.K.Rajasekhara Rao, Dr.M.Sheshu Madhav, Smt.K.Santinandivelu and Dr.K.Raja and Sri M. Karthick
13	CBrD-1	Genetic enhancement of chilli for nutraceuticals, value addition, commercial traits and resistance to biotic stress in Terai region of West Bengal Dr.Partha Saha, Dr.Namita Das Saha, Dr.Anindita Paul, Dr.K.Sarala, Dr.C.Nanda, Dr.K.Prabhakara Rao, Dr.M.Sheshu Madhav Associates: Ms. Nandita Sahana (UBKV), Sri K.Satayanarayana and Sri GNS Ganesh
14	TBrD-1	Yield and quality improvement in turmeric through suitable varietal selection and propagules in Terai region of West Bengal Dr.Partha Saha and Dr.Namita Das Saha Associates: Dr. K.Sarala, Dr. T.Kiran Kumar, Dr. Anindita Paul, Sri Ram Krishna Sarkar (from UBKV), Sh JK Roy Barman and Sri GNS. Ganesh

CROP MANAGEMENT

15	A.88	Development of high value commercial crops based remunerative production systems through innovative approaches Dr.T.Kiran Kumar, Sri K. Viswanatha Reddy, Dr. S. Kasturi Krishna and Dr. K. Rajasekhara Rao Associates: Dr.J.Poorna Bindu, Dr. M. Sheshu Madhav, Sri Indrjeet, Sri Ch. Sudhakara Babu, Sri S. Simhachalam, Sri A Nageswara Rao and Sri KVN Raju
16	A.89	Carbon sequestration potential and greenhouse gas (GHG) emissions in tobacco-based production systems through sustainable crop residue management Dr.T.Kiran Kumar, Dr.J.Poorna Bindu and Dr. K. Rajasekhara Rao Associates: Dr. M. Sheshu Madhav, Dr.L.K.Prasad, Dr.Anindita Paul Dr.K.Dakshina Murthy (ANGRAU), Dr. Ch. Sreenivas (ANGRAU), Sri Indrjeet and Sri S. Simhachalam
17	JLA-40	Agronomic management practices (standardisation of agro-techniques) for higher productivity, resource use efficiency and value addition of turmeric (<i>Curcuma longa</i> L.) in irrigated Alfisols of Andhra Pradesh Dr.S.V.Krishna Reddy Associates: Dr. T. Kiran Kumar, Dr. S. Kasturi Krishna, Dr. J.Poorna Bindu, Sri Ch. Sudhakar Babu and Sri T. Ramesh
18	JLA-41	N and K nutrient use efficiency indices for FCV tobacco grown under drip fertigation in irrigated Alfisols Dr.S.V.Krishna Reddy, Dr.S. Kasturi Krishna and Dr.J.Poorna Bindu Associates: Sri Ch. Sudhakar Babu and Sri S. Simhachalam
19	A.87	Agronomic interventions for enhancement of high valued traits and farm income in commercial crops Dr.S.Kasturi Krishna and Dr.S.V.Krishna Reddy Associates: Dr.T.Kiran Kumar, Dr.J.Poorna Bindu, Smt. G.S.M. Annapoorna
20	A.106	Crop intensification for higher farm productivity in chewing tobacco growing areas Dr.M.Kumaresan, Dr.S.Kasturi Krishna, Dr.P.Manivel and Sri V.Annadurai Associate: Dr.M.Sheshu Madhav
21	A.10	Permanent manurial trial on Motihari tobacco Dr.Namita Das Saha and Dr. Partha Saha Associates Dr LK Prasad, Dr. J. Poorna Bindu, Dr.K.Rajasekhara Rao, Dr.S.K.Dam, Sri J.K.Roy Barman and Sri. P Krishna

22	A.71	Development of efficient agronomic techniques for enhancing productivity and improving the quality of turmeric in the Eastern Himalayan zone Dr.Partha Saha and Dr. J.Poorna Bindu Associates: Sri J.K.Roy Barman and Sri Ramu Nambari
23	SS.36	Assessment of soil carbon mineralization and carbon stocks in tobacco and tobacco based cropping systems of different tobacco growing soils Dr.J.Poorna Bindu, Dr.T.Kiran Kumar and Dr.M.Anuradha Associates: Dr.K.Rajasekhara Rao, Dr.M.Sheshu Madhav, Smt. K. Sridevi and Sri. K. Veeranna
24	E.88	Studies on the biology and management of cigarette beetle, Lasioderma serricorne Smt. B.Sailaja Jayasekharan and Dr. V. Venkateswarlu Associate: Sri Himanshu Yadav
25	E.89	Bioecology and management of insect pests in chillies Dr. V. Venkateswarlu and Smt. B.Sailaja Jayasekharan Associates: Dr.T. Kiran Kumar and Sri Ramu Nambari
26	E.90	Physical and chemical interactions of plants, pests and their natural enemies in commercial crops Dr.K.Rajasekhara Rao, Dr.V.Venkateswarlu, Smt. B.Sailaja Jayasekharan, Dr.Anindita Paul and Dr.S.Madhavan (DFR) Associates: Dr.J.Poorna Bindu, Sri Ramu Nambari and Sri Himanshu Yadav
27	E.91	Standardization of precise pesticide application utilizing Unmanned Aerial Vehicles (UAVs) for commercial crops Smt. B.Sailaja Jayasekharan and Dr.K.Rajasekhara Rao Associates: Dr.V.Venkateswarlu, Dr.L.K.Prasad, Dr.M.Sheshu Madhav, Sri T.Ramesh and Sri Himanshu Yadav
28	EG.18	Integrated management of chilli black thrips, Thrips parvispinus Karny Dr. P. Venkateswarlu, Dr.K.Rajasekhara Rao, Dr.V.Venkateswarlu and Smt. B.Sailaja Jayasekharan Associates: Sri M.V. Jayakrishna and Sri G. Srinivasa Rao
29	PP-83	Deciphering resistance mechanisms against Fusarium wilt and Black Shank diseases in tobacco Dr.H.S. Mahesha and Dr. S.K. Dam Associates: Dr. M. Sheshu Madhav, Dr. K. Prabhakara Rao, Dr. K. Rajasekhara Rao and Sri Pankaj Kumar
30	PPD-1	Screening for resistance against hollow stalk (Erwinia carotovora sub. sp. carotovora) in Motihari (N. rustica) tobacco germplasm accessions Dr. S.K. Dam and Dr.Namita Das Saha Associates: Dr.Partha Saha, Dr.K.Rajasekhara Rao, Dr.M.Sheshu

		Madhav and Sri P. Krishna
31	PPD-2	<i>In vitro</i> efficacy study of <i>Trichoderma</i> isolates for the management of soil borne fungal diseases in <i>Motihari</i> tobacco (<i>N. rustica</i>) Dr. S.K. Dam Associates: Dr.Partha Saha, Dr.Namita Das Saha, Dr.K.Rajasekhara Rao, Dr.M.Sheshu Madhav, Dr.P.M.Bhattacharjee (UBKV), Sri P. Krishna and Sri Pankaj Kumar
32	NV.1	Development of a consortium of bio-agents for biotic stress management and nutrient supplementation Dr.M.Venkatesan
33	NV.2	Biotic stress management in Ashwagandha crop Dr.M.Venkatesan and Dr.P.Manivel
34	JMLN-1	Characterisation of economically important plant parasitic nematodes in FCV tobacco under NLS region of Andhra Pradesh Dr.M.Venkatesan and Dr.T.Sirisha (DFR) Associates: Dr.K.Rajasekhara Rao, Dr.J.J.Rajjappa, Dr.K.Prabhakar Rao, Dr.Ramakrishnan
35	N.22	Integrated management of root knot nematode & disease complex in FCV tobacco and tobacco based cropping system in KLS Dr.S. Ramakrishnan Associate: Sri Md. Shareef
36	N.23	Exploring certain millets as preceding rabi crops for FCV tobacco against root knot nematodes in light soils of Karnataka Dr.S. Ramakrishnan and Md. Shareef
POST HARVEST & VALUE ADDITION		
37	CaVA-1	Development of laboratory level methods/techniques for the extraction of commercially viable bioactive compounds of castor oil Dr.L.K.Prasad, Dr.Anindita Paul, Dr.M.Anuradha and Dr.Namita Das Saha Associates: Sri N.Johnson and Sri K.Veeranna
38	OC-25	Pesticide residues in tobacco: Development of analytical methods and monitoring Dr. Anindita Paul and Dr.L.K.Prasad Associates: Dr. V. Venkateswarlu, Dr. K. Rajasekhara Rao, Sri N. Johnson and Sri K. Veeranna
39	ChVA-1	Chemoprofiling of chilli by unveiling nutraceutical potential and sustainable waste valorization Dr. Anindita Paul, Dr.K.Suman Kalyani and Dr.L.K.Prasad Associates: Dr.T.Kiran Kumar, Sri N. Johnson and Dr.M.Sheshu Madhav
40	PHYK-3	Crop, water and post-harvest management strategies for enhancing farm income and export potential in rainfed ecosystem of Andhra Pradesh

		Dr. M.Anuradha, Dr.K.Gangadhara and Dr.Anindita Paul Associates: Dr.J.Poorna Bindu, Dr.L.K.Prasad, Smt. A. Divya and Sri K. Sudhakar
41	EVS-1	Microbes based technological intervention for growth, yield, quality improvement and disease suppression in chilli under Terai agro-ecological region of West Bengal, India Dr.Namita Das Saha, Dr.Partha Saha and Dr.J.Poorna Bindu Associates: Dr.L.K. Prasad, Dr. K. Rajasekhara Rao, Dr.M.Sheshu Madhav, Dr.Anindita Paul, Sri RamuNambari, Dr.Somnath Mandal (UBKV) and Sri. P. Krishna
42	EVS-3	Climate resilient technological interventions for enhancing nutraceuticals and other commercial traits for enhancing net income from turmeric Dr.Namita Das Saha, Dr.Partha Saha and Dr. K. Suman Kalyani Associates: Dr.L.K. Prasad, Dr.M.Sheshu MadhavDr.Somnath Mandal (UBKV) and Sri P. Krishna
43	Ag. Extn-53	A study on opportunities for product diversification in turmeric Dr.K.Suman Kalyani and Dr. Y. Subbaiah Associates: Dr.M. Sheshu Madhav, Dr. L.K. Prasad and Dr.J.Poorna Bindu
44	Ag.Extn-54	A study to explore post-harvest management opportunities for enhancing profitability in identified high value commercial crops. Dr. Y. Subbaiah, Dr.B.Hema and Dr. K. Suman Kalyani Associates: Dr.S.Kasturi Krishna and Sri T. Venkatesh
45	ChVA-2	Development of value-added products through product diversification in chilli Dr. K.Suman Kalyani and Dr.L.K. Prasad Associates: Dr. M. Sheshu Madhav and Usha Angel
46	Ag.Extn-55	A critical analysis of farmer producer organizations for entrepreneurship in commercial crops Dr.B. Hema, Dr.Y.Subbaiah, Dr.H.Ravisankar, Dr/VSGR. Naidu and Sri K. Viswanatha Reddy Associates: Dr.L.K.Prasad and Dr.M.Sheshu Madhav
47	ARIS-17	Data driven decision making on high value commercial crops Dr. H. Ravisankar, Dr.L.K.Prasad, Sri K.Viswanatha Reddy and Dr.T.Kiran Kumar Associate: Sri M.N.P. Kumar
48	Agri.Econ-II	Value chain analysis of high value commercial crops Mr. K. Viswanatha Reddy and Dr.B.Hema Associates: Dr.L.K.Prasad and Dr.M.Sheshu Madhav