

Theme wise Ongoing and New Institute Research Projects 2015-16

Sl. No.	Project code	Project Title	Name of PI & CO-PI	Start year	Comp Year	Funding agency
Theme 1. Farming System research including Climate resilient agriculture						
1	Integrated Farming System and Cropping system for Eastern Region					
1.1	ICAR-RCER/AICRP/IFS/EF/2010/ 25(i)	Development of location specific Integrated Farming System models for small and marginal farmers of Bihar	Sanjeev Kumar A. Dey U. Kumar N. Chandra M. Idris S.Mondal	June, 2010	Mar., 2016	PDFSR, AICRP (Externally funded)
1.2	ICAR-RCER/RCM/2011/ 25(ii)	Development of makhana based Integrated Farming System models for low land eco-system	I.S. Singh V.K. Gupta	July, 2011	June, 2016	ICAR RCER
1.3	ICAR-RCER/RC Ranchi/2011/ 25(iii)	Development of location specific Integrated Farming System models for rainfed eco-system of Eastern Plateau Hill region	B.K. Jha Reshma Shinde S.S. Mali A. Chakrabarti	June, 2011	May, 2016	ICAR RCER
1.4	ICAR-RCER/R.C Makhana/2014-15/157	Introduction of sweet flag and tuber vegetable crop under wetland ecosystem with makhana crop for north Bihar	V.K. Gupta B.R. Jana Rajvir Sharma	July, 2014	June, 2017	ICAR RCER
1.5	ICAR-RCER/DLFM/2014/155	Optimization of production efficiency in livestock- fish integrated farming system	Kamal Sarma A.Dey S.Mondal S. J.Pandian S.K. Gupta Snatashree Mohanty Tarkeshwar Kumar	Aug., 2014	July, 2017	ICAR RCER
1.6	ICAR-RCER/DLFM/2014/143	Multiplication and production profiling of improved poultry germplasm under Backyard farming system	Reena Kumari Kamal P.C.Chandran S.J.Pandian	July, 2014	June, 2019	ICAR RCER

1.7	ICAR-RCER/DSEE/2012/134	Tribal farming system in Eastern India	Ujjwal Kumar B.P. Bhatt R.S. Pan Bikash Das Bikash Sarkar A. Dey Kamal Sarma	Jan., 2013	Dec., 2015 Extd. Dec. 2016	ICAR RCER
1.8	ICAR-RCER/R.C Ranchi/2014/147	Development of multi-tier cropping system for rainfed uplands of eastern plateau and hills	Mahesh Kumar Dhakar Bikas Das Reshma Shinde	Sept., 2014	Sept. 2019	ICAR RCER
1.9	New	Integrated farming system for improvement of nutrition and livelihood of farm women	T.L. Bhutia Reena Kumari Kamal Snatashree Mohanty	2015		Externally funded
2	Resource Conservation Technology					
2.1	ICAR-RCER/FF/CSISA-II/2013/36	Cereal Systems Initiative for South Asia (CSISA) phase II	J.S. Mishra Md. Idris Ajay Kumar S.K. Dwivedi U.R.Sangle S. Mondal	July 2013	Sept., 2015	CIMMYT
2.2	ICAR-RCER/D LWM/2012/130	Evaluation of vegetable varieties under different irrigation methods	Shivani A.K. Singh M. Idris T.L. Bhutia	Sept. 2013/ Initiated in 2014	Aug., 2017	ICAR RCER
2.3	New	Sustainable Resilient Farming System in intensification (SRFSI) in the Eastern Gangetic Plane	Ujjwal Kumar Rajvir sharma S.K. Singh Bikash Sarkar A.K. Chaudhary S. Mondal Ved Praksah	Oct., 2014	June, 2018	CIMMYT
2.4	New	Evaluation of vegetable cropping sequences under drip irrigation with mulching in EPHR	B.K. Jha S.S. Mali S.K.Naik	Aug., 2015	July, 2018	ICAR RCER
3	Climate resilient agriculture					
3.1	ICAR-RCER/RC Ranchi/2011/29	Understanding the changes in host-pest interactions and dynamics in mango under climate change scenario (NICRA)	Bikash Das J.S. Choudhary S. Maurya S. Gutam	Jan., 2011	Mar., 2016	NICRA (Externally funded)

3.2	ICAR-RCER /DLWM/ 2012/ 126	Land suitability classification for different crops using remote sensing and GIS	Manibhushan S. Mondal A.K. Singh A. Upadhyaya	Jan., 2013	Dec., 2015	ICAR RCER
3.3	ICAR-RCER/ DCR/ 2014/ 144	Impact of elevated CO ₂ and temperature on growth and yield of rice-wheat cropping system under predicted climate change scenario.	S.K. Dwivedi Santosh Kumar Ved Prakash	July, 2014	June, 2017	ICAR RCER
3.4	New	Management of high intensity rain events in flood prone region of middle IGP for kharif crops and low temperature in Boro rice in eastern IGP (NICRA)	J.S.Mishra Kamal Sarma U.Kumar Bikas Sarkar N.Bhakta Ved Prakash	July, 2014		NICRA (Externally funded)

Theme- 2. Genetic Resource Management and Improvement of Field, Horticultural and Aquatic crops

4 Varietal Development						
4.1	ICAR RCER/ FF /2011/ 30	Evaluation and development of drought tolerant rice for Eastern region (STRASA Phase-III)	Santosh Kumar M. Idris U.R. Sangle N. Bhakta S. K. Dwivedi	April, 2014	Feb., 2019	IRRI (Externally funded)
4.2	ICAR-RCER/ EF/IRRI/ 2012/33	Improved Rice based rainfed Agricultural System (IRRAS) in Bihar State, India	J. S. Mishra Santosh Kumar A. K. Singh U. R. Sangle S.K. Dwivedi S. Mondal N. Bhakta	July, 2012	Sept., 2015	(Externally funded by IRRI)
4.3	ICAR-RCER / RC Ranchi/ 2012/ 128	Genetic enhancement of Tomato for nematode and bacterial wilt resistance through Molecular markers	P. Bhavana A.K. Singh S. Maurya J.S. Choudhary	Jan., 2013	Dec., 2016	ICAR RCER
4.4	ICAR-RCER / HARP/ 2001/ 03	Plant genetic resource and improvement of fruit and ornamental crops	Bikash Das M.K.Dhakar P.K. Sarkar S. Gutam	2001	Long term	ICAR RCER

4.5	ICAR-RCER/ RCR/ 2012/ 132	Collection, characterization and evaluation of potentials wild edibles including tuber crops	R.S. Pan Bikash Das Reshma Shinde Anuradha Srivastava	Apr., 2013	Mar., 2018	ICAR RCER
4.6	ICAR-RCER/ DCR/ 2013/ 136	Characterization of wheat (<i>Triticum aestivum</i> L.) genotypes for terminal heat stress tolerance	S.K. Dwivedi Santosh Kumar Sanjeev Kumar	July, 2013	June, 2016	ICAR RCER
4.7	ICAR-RCER/ DCR/ 2014/142	Evaluation and identification of rice genotypes for tolerance to drought stress at different growth stages.	Santosh Kumar N. Bhakta S. K. Dwivedi	July, 2014	June, 2018	ICAR RCER
4.8	ICAR-RCER/ DCR/ 2014/160	Breeding for submergence tolerance in rice	N. Bhakta Santosh Kumar S. K. Dwivedi	July, 2014	June, 2018	ICAR RCER
4.9	New	Improvement of seed quality of solanaceous and cucurbitaceous vegetables	P. R. Kumar	July, 2015		ICAR RCER
4.10	New	Genetic improvement for yield and biotic stress resistance in pigeonpea under eastern plateau and hill region	P. Bhavana S. Maurya P.R. Kumar J.S. Chaudhary	July, 2015	June, 2019	ICAR RCER
4.11	New	Collection, evaluation and development of bacterial wilt resistant germplasm of brinjal	P. Bhavana S. Maurya	July, 2015		ICAR RCER
4.12	New	Evaluation of different genotypes of water chestnut	Rajvir Sharma	2015	2020	ICAR RCER

Theme- 3. Improved Production and Protection Technologies for Agri-Horti Crops

5	Production Technologies					
5.1	ICAR-RCER/DC/2011/104	Evaluation of different production system for Carbon sequestration potential	S. Mondal S.K. Naik S. Maurya Shivani	July, 2011	June, 2017	ICAR RCER
5.2	ICAR-RCER/R C Ranchi/2012/129	Development of methods for processing and extending shelf-life of selected vegetable legumes	A. K. Thakur R.S. Pan S. Maurya	Jan., 2013	Dec., 2015	ICAR RCER
5.3	ICAR-RCER/DLWM/2013/137	Design and performance evaluation of low cost green house suitable for vegetable production in Bihar and Jharkhand	Bikash Sarkar A. Upadhyaya N. Chandra T.L.Bhutia	2013	2016	ICAR RCER
5.4	ICAR RCER/R CM Darbhang a/2014/158	Sustainable crop intensification through the development of suitable plant type in cool season pulses under rice-fallow and makhana-fallow cropping system in Eastern India	A.K.Choudhary I.S. Singh	July, 2014	June, 2017	ICAR RCER
5.5	ICAR RCER/R CM Darbhang a/2014/159	Development of value-added product of makhana.	A.K. Thakur I.S. Singh	July, 2014	June, 2017	ICAR RCER
5.6	ICAR RCER/R CM Darbhang a/2014/156	Response of integrated nutrient management on the production potential of makhana crop growing under field condition in northern Bihar.	I.S. Singh Rajvir Sharma	July, 2014	June, 2017	ICAR RCER

5.7	ICAR-RCER/RC Ranchi/2014/151	Standardization of basin enrichment in high density orchards of bael, sapota and guava under eastern plateau and hill region	Bikash Das S.K. Naik S. Maurya P. Sarkar	Aug., 2014	July, 2017	ICAR RCER
5.8	ICAR-RCER/RC Ranchi/2014/154	Study on decomposition rate of different organic substrate and their nutrient release pattern	Reshma Shinde S. Maurya	July, 2014	June, 2017	ICAR RCER
5.9	ICAR-RCER/R.C. Ranchi/2014/152	Nutritional characterization and value addition of potential underutilized leafy vegetables of Jharkhand	Anuradha Srivastava R.S. Pan	Sept., 2014	Sept., 2017	ICAR RCER
5.10	New	Integrated Weed Management (i)Integrated weed management in makhana (ii)Integrated weed management in direct seeded rice (iii)Integrated weed management for hill and plateau region	Rajvir Sharma Sanjeev Kumar Pradeep Sarkar	2015	2020	ICAR RCER
6.0	Protection Technologies					
6.1	ICAR-RCER/R.C. Ranchi/2012/131	Survey and surveillance of pest complex and their natural enemies on selected horticultural crops	J.S. Choudhary S. Maurya	Jan., 2013	Dec., 2015	ICAR RCER
6.2	ICAR-RCER/DCR/2011/105	Management of wilt complex of lentil through bio-agents coupled with host resistance	U.R. Sangle Sanjeev Kumar	Nov., 2011	Oct., 2015	ICAR RCER

6.3	New	Fruit flies (<i>Tephritidae: diptera</i>) diversity and their host plant determination from eastern region of India.	J.S. Choudhary Md. Idris Ram Kewal (Associate)	July, 2015	June, 2018	ICAR RCER
6.4	New	Development and evaluation of disease suppressive potting mixtures in vegetable crops.	S. Maurya	July, 2015	June, 2018	ICAR RCER
6.5	New	Monitoring of selected horticultural fruit crops	S. Gutam	July, 2015	June, 2018	ICAR RCER

Theme- 4. Integrated Land & Water Management

7.0 Land & Water Management

7.1	ICAR-RCER /DLWM/2014/	Development of bio-drainage in participatory mode under waterlogged area	S.K. Singh S.K. Dwivedi Ajay Kumar	July, 2014	June, 2022	ICAR RCER
7.2	ICAR-RCER/RC Ranchi/2014/149	Participatory management of rice-fallow in eastern plateau and hill region	A. K. Singh S.K. Singh B.K. Jha Bikash Das R S Pan S. Mondal Ajay Kumar S.K. Naik Reshma Shinde P. Bhavana S.S.Mali	July, 2014	June, 2017	ICAR RCER
7.3	New	Evaluation of Conservation Agricultural (CA) practices under Rice-fallow system of Eastern Region	Dr. J. S. Mishra	2015	2017	ICAR-Platform Research on CA
7.4	ICAR-RCER /DLWM/2014/	Application of optimization techniques in planning and management of land, water and other resources	A. Upadhyaya Manibhushan A. Rahman	July, 2014	June, 2017	ICAR RCER
7.5	ICAR-RCER /DLWM/2014/	Flood and drought mapping in Eastern region	Manibhushan A. Upadhyaya	Sept., 2014	Aug. 2017	ICAR RCER

7.6	ICAR-RCER /DLWM/ 2014/	Optimization of water productivity of aerobic rice based cropping system	S.K. Singh Ajay Kumar	July, 2014	June, 2017	ICAR RCER
7.7	ICAR-RCER /DLWM/ 2014/	Solar energy utilization in drip irrigation system, aerator for fish pond, humidifier and washing system for dairy management.	A. Rahman A.Dey Kamal Sarma Ajay Kumar B. Sarkar Bikas Das	Aug., 2014	July, 2017	ICAR RCER
7.8	ICAR-RCER /RC Ranchi/ 2014/148	Evaluation of hydrological response of micro water sheds in eastern plateau and hill region	Santosh Mali S.K. Naik P.K.Sarkar	Jan., 2015	June, 2018	ICAR RCER
7.9	ICAR-RCER /RC Ranchi/ 2014/150	Rehabilitation of coal mine affected area of Jharkhand through agroforestry interventions	Pradip Kumar Sarkar Santosh Mali Mahesh Kumar Dhakar	Sept., 2014	Aug., 2019	ICAR RCER
7.10	New	Genetic improvement for yield and biotic stress resistance in pigeonpea under eastern plateau and hill region	P. Bhavana S. Maurya P.R. kumar J.S. Chaudhary	July, 2015	June, 2019	ICAR RCER
7.11	New	Optimizing land and water productivity in Rice-Lentil-Okra	A.K.Singh	July, 2016	June, 2019	ICAR RCER

Theme- 5. Livestock & Fisheries Management

8.0 Livestock and Avian Management

8.1	ICAR-RCER /DLFM/ 2010/ 90	Evaluation of feeds and fodders in ruminants to develop mixed ration for production of milk and meat	J.J. Gupta A. Dey S. Dayal S. Bandopadhyay	Apr., 2011	Mar., 2015 Extd. Sept., 2015	ICAR RCER
8.2	ICAR-RCER /DLFM/ 2011/ 106	Formulation of area specific mineral mixture for Bihar based on Soil-plant-animal continuum	A. Dey J.J. Gupta S.K. Naik Pankaj Kumar	Aug., 2011	July, 2015 Extd July, 2016	ICAR RCER

8.3	ICAR-RCER/EF/DBT/2012/34	DBT Twinning Programme on Elucidating the mechanisms involved in higher feed conversion efficiency of bovine species by expression of the genes regulating mitochondrial proton leak kinetics	A. Dey S. Dayal	Jan., 2013	Dec., 2015	DBT (Externally funded)
8.4	ICARRCE R/DLFM/EF/2011/31	Buffalo improvement	P.C. Chandran A. Dey Pankaj Kumar	June, 2012	Dec., 2016	ICAR RCER
8.5	ICAR-RCER/DLFM/2013/135	Characterization of lesser known breeds of farm animals in Eastern India	P.C. Chandran Shanker Dayal Reena Kumari Kamal	July, 2013	June, 2017	ICAR RCER
8.6	ICAR-RCER/DLFM/2014/141	Management of heat stress in buffalo	S. Dayal	Jan., 2015	Dec., 2018	ICAR RCER
8.7	ICAR-RCER/DLFM/2014/140	Assessing stocking density of livestock under different land use system of fodder production.	J.J. Gupta A. Dey Reshma Shinde A. Chatterjee NDRI, Kalyani Centre	April, 2015	Mar., 2019	Network project linkage NDRI Regional Station, Kalyani
8.8	ICAR-RCER/DLFM/2014/146	Development of herb-based calf care mix for production of disease free calf.	S.J. Pandian Pankaj Kumar P.C. Chandran Arun Kumar Das, IVRI-ERS, Kolkata	Oct., 2014	Sept., 2017	ICAR RCER
8.9	ICAR-RCER/DLFM/2014/	Network Project on Animal Genetic Resource: Characterization of Red Purnea cattle.	P.C.Chandran Pankaj Kumar S.J. Pandian Reena Kumari Kamal	July,2014	June, 2016	NBAGR, Karnal
8.10	New	Meso level animal health interventions and evaluating economic losses from animal diseases	Pankaj Kumar	Aug., 2015	Aug., 2018	ICAR RCER

8.11	New	Isolation and characterization of <i>Fusarium</i> species responsible for Degnala like disease in animals	S.K. Gupta	Aug., 2015	Aug., 2018	ICAR RCER
8.12	New	Evaluation and characterization of duck germplasm in Eastern region.	Reena Kumari Kamal	Aug., 2015	Aug., 2018	ICAR RCER
8.13	New	Identification, documentation and quantification of non conventional feed resources in traditional swine husbandry practices	Asit Chakrabarty	July, 2015	July, 2018	ICAR RCER
8.14	ICAR-RCER/DLFM/2012/ 122	Evaluation of nutraceuticals as supportive therapy for subclinical mastitis in peri-urban cattle	Pankaj Kumar J.J. Gupta S. Dayal	Feb., 2013	Jan., 2016	ICAR RCER
8.15	ICAR-RCER/DLFM/2012/ 123	Serological epidemiology of major viral pathogen of caprine in Bihar	Pankaj Kumar P.C. Chandaran K.K. Rajak, IVRI	Mar., 2013	Mar., 2016	ICAR RCER
8.16	ICAR-RCER/DLFM/2012/ 124	Health monitoring and disease surveillance of farm animals	Pankaj Kumar P.C. Chandran	Mar., 2013	Feb., 2016	ICAR RCER

9.0 Fisheries Management

9.1	ICAR-RCER/DLFM/2012/ 133	Feed formulation for production of quality fish seed from locally available feed ingredients	K. Sarma Ujjwal Kumar	Jan., 2013	Dec., 2015	ICAR RCER
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Theme- 6. Socio-Economics, Extension and Policy Research

10.0 Socio-economic Research

10.1	ICAR-RCER/DSEE/2012/ 127	Technology out-scaling for sustainable food production and livelihood improvement	Ujjwal Kumar Kamal Sarma A. Dey	Sept., 2013	Aug., 2015 Extd. Aug., 2016	ICAR RCER
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10.2	ICAR-RCER/ DSEE/ 2012/	Impact assessment of agricultural technologies in Eastern India	N. Chandra R.C. Bharati Abhay Kumar A.K. Singh (Ranchi)	Aug., 2014	July, 2017	ICAR RCER
10.3	ICAR-RCER/ DSEE/ 2014/	Growth and instability in production of principal crops in Bihar	Abhay Kumar	July, 2014	June, 2017	ICAR RCER