

Ongoing projects of ICAR IISS Bhopal

Sl. No	Title of the project	PI and CoPIs of the project	Duration	RPF-I,II,III status	Budget (In lakhs)	Project code
1.	Long-term Evaluation of Integrated Plant Nutrient Supply Modules for sustainable productivity in Vertisol.	Drs. Muneshwar Singh, A. K. Biswas, B. P. Meena A. B. Singh, R. S. Chaudhary,	April, 2002 to long term	RPF-I (2002-03) II (2003 – 07) II (2008-11) (2011-12-13-14), RPP-II 2014-15, RPP-II 2015-16, RPP-II 2016-17, RPP-II 2017-18 and RPP-II 2018-19, RPP-II 2019-20 and 2020-21 submitted	5.00 lakhs for every five years	MRMAIISSEO L20020010053
2.	All India Network Project on organic farming (External funded by ICAR-IIFSR, Modipuram)	A. B. Singh, B.P. Meena, K. Ramesh, Brij Lal Lakaria, S. Ramana, J.K. Thakur	Kharif 2004 to March 2018 extended upto to March 2022	progress report submitted 2013-14, 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, and 2020-21	117.24 (budget 2004-05 to 2020-21)	NRMAIISSEO L20040010006 3
3.	Assessment of important soil properties of India using mid-infrared spectroscopy funded by ICRAF, Nairobi, Kenya	K.M. Hati, M. Mohanty, Pramod Jha,	May 2015 to June 2020	Status report and RPP-I submitted	70.50	NRMAIISSEI L20150070015 4

		R.S. Chaudhary, N.K. Sinha, J.K. Thakur, M. V. Coumar, Pradip Dey, Muneshwar Singh, A.K. Patra, Javed Rizvi, Dhiraj Kumar	extended up to June 2021			
4.	Development, adaptation and refinement of location specific CA practices for enhancing productivity and profitability of rainfed eco-systems (Consortium Research Platform on Conservation Agriculture (External funded)	A.K. Biswas, R.S. Chaudhary, K.M. Hati, J. Somasundaram A.K. Vishwakarma, R.K. Singh, Pramod Jha	April 2015 to March 2020	Project document submitted (Report for 2015-16; 2016-17, 2017-18, 2018-19, 2019-20, 2020-21 submitted by Dr Pramod Jha)	350.00 (2015-16) (2016-17) 269.00 (2017-18), 253.61 (2018-19), 288.98 (2019-20), 327.74 (2020-21), 320.98 (2021-22)	NRMAISSCO L20150060017 4
5.	Use of fly ash in agriculture for sustainable crop protection	J.K. Saha, M.	30	MoU signed	1253.516	NRMAISSCO

	and environmental protection (NTPC, Noida)	V. Coumar, Abhijit Sarkar, A.K. Patra, Tapan Adhikari, Ajay, K.M. Hati, Vasudev Meena, Madhumonti Saha, Sangeeta Lenka, Asit Mandal, A.K. Vishwakarma, H Das	August, 2021 to 31 July 2031	and revised amendment is awaited		L20170040018 3
6.	Development of an automated soil nutrient sensing system funded by NASF	Sanjay Srivastav, A.O. Shirale, P.S. Tiwari (ICAR-CIAE, Bhopal), Vijay Kumar (ICAR- CIAE, Bhopal), Ramesh Kumar Sahani (ICAR-CIAE, Bhopal), Baban Kumar (CSIR-CSIO, Chandigarh), Neelam (CSIR-CSIO, Chandigarh)	9 May 2017 to 8 May 2020	project document submitted	31.34	NRMAIISCO P20170050018 4

7.	Mineralogy of Vertisols in relation to K availability in central and western India	Gurav Priya Pandurang, AO Shirale, B.P. Meena, B.L. Lakaria, Sanjay Srivastava, P. Chandran (ICAR-NBSS&LUP. Nagpur), Dr. S. Sandeep (Deptt. of Soil Science, KSCSTE, Kerala Forest Research Institute, Thrissur, Kerala	June 2018 to Dec 2023	RPP-I submitted	14.25	NAMAISSSO L20180030019 4
8.	Evaluation of Soybean-rhizobia interaction under elevated CO ₂ and temperature to develop climate ready microbial inoculants for central India (Externally funded project from AMAAS) (External funded)	S.R. Mohanty, K. Bharati	April 2017 to March 2020	Proposal document submitted	21.38	NRMAISSCO L20170110019 7
9.	Enhancement of Soil Health and Livelihood of Tribals in Central India	RH Wanjari, R Elanchezhian, Prabhat Tripathi, RK Singh, KC Shinogi, Vassanda Coumar, Vasudev Meena,	October 2018 to March 2021 extended up to March 2026	project document RPP-I, RPP-II (2018-19, 2019-2020) submitted	61.45+19.93=81.38	NRMAISSSI L20190030020 3

		AL Kamble, Utkarsh Tiwari, J Somasundara m, Abhay Shirale, Asit Mandal, Hiranmoy Das, AB Singh, Asha Sahu, SK Behera, AK Vishwakarma, Monoranjan Mohanty, Seema Bhardwaj, Madhumonti Saha, Sanjay Srivastava, K Bharati, Priya Gurav Pandurang, BP Meena, AK Tripathi, Abhijit Sarkar, NK Sinha, JK Thakur, S.K. Badodiya, I/c KVK Barwani (MP), B.S. Rajput, I/c KVK				
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		Rajnandgaon (Chhattisgarh) and VK Verma, I/c KVK Betul (MP)				
10.	Assessment of acid mine drainage affected areas in Madhya Pradesh	Madhumonti Saha, Ajay, Abhijit Sarkar, J.K. Saha and Hiranmoy Das	2019-2022	RPP-I submitted	10.25	NRMAISSCO L20190040020 5
11.	Assessment of nutrient (N & P) use efficiency in wheat genotypes for improved crop productivity	R. Elanchezhian, A.O. Shirale, B.P. Meena, Alka Rani, Sanjay Srivastava, Ajay, S. Ramana, A.K. Biswas, MV Coumar and Renu Pandey (ICAR-IARI, New Delhi)	October 2019 to September 2023	RPP-I submitted	20.00	NRMAISSSO L20190050020 6
12.	Micronutrients distribution in major soil orders of India as influenced by soil properties and land use pattern	SK Behera, N.K. Sinha, J.K. Thakur, K. Kartikeyan (ICAR-NBSS&LUP, Nagpur)	2019 to 2023	RPP-I submitted	18.00	NRMAISSSO L20190080021 1
13.	Climate change impact on water productivity of major	N.K. Sinha,	2019 to	Status report	18.00	NRMAISSSO

	crops in central India	M. Mohanty, J. Somasundaram, Pramod Jha, Alka Rani, Seema Bhardwaj, Hiranmoy Das, K.M. Hati, R.S. Chaudhary	2023	submitted		L20190090021 2
14.	Impacts of conservation agriculture on runoff and soil loss under different cropping system in Vertisols	Prabhat Tripathi, R.K. Singh, R.S. Chaudhary, Seema Bhardwaj, J. Somasundaram, M. Mohanty, K.M. Hati	2019 to 2024	Status report submitted	16.00	NRMAISSSO L20190100021 3
15.	Long term monitoring of soil processes in forests and grasslands funded by Long Term Ecological Observatories, MoEFCC	Pramod Jha, Sumanta Bagchi	March 2020 to Feb 2025	Project document submitted	319.00	NRMAISSCO P20200020021 4
16.	Evaluating the impact of Geoxol.com on soil health and crop productivity funded by M/s Privi Life Science, Mumbai	J Somasundaram, NK Sinha, M Mohanty, RS Chaudhary, KM Hati, AO Shirale, AK Patra	Oct 2020 to Dec 2022	MoU and CR-I submitted	34.12	NRMAISSSC L20200030021 5

17.	Enhancing livelihood security of subsistence farming community through improvement in soil health crop productivity and capacity building in Bhopal district of Madhya Pradesh	BL Lakaria, Ajay, AK Vishwakarma, Jitendra Kumar, Dolamani Amat and all scientists of all divisions	Oct 2020 to March 2022	RPP-I submitted	77.58 (2020-21 and 2021-22)	NRMAIISSSO L202000400216
18.	Microbial based agricultural waste management using vermicomposting funded by Swachhta Action Plan, ICAR, New Delhi	AK Patra, AK Vishwakarma, JK Thakur, AB Singh, BL Lakaria, BP Meena, RS Chaudhary, MC Manna, Asha Sahu, Asit Mandal	October 2020 September to 2023	Document submitted	56.65	NRMAIISSSI L202000500219
19.	Deciphering thermophiles from hot springs of Central India for rapid decomposition of crop residues	Asha Sahu, Sudeshna Bhattachrjya, Dolamani Amat, Nisha Sahu, K Bharati and Anita Tilwari	July 2020 to June 2024	RPP-I, RPP-II 2020-21 submitted	7.70	NRMAIISSSO L202000600220
20.	Soil moisture estimation through remote sensing for agriculture drought monitoring and early warning	Alka Rani, NK Sinha, M Mohanty, Jitendra Kumar, Seema	November 2020 to October 2024	RPP-I submitted	13.20	NRMAIISSSO L202000700221

		Bhardwaj, RS Chaudhary, KM Hati and RK Singh				
21.	Development of agri-horticultural system for central India under Vertisols, its impact on soil health and improvement in productivity and quality of fruits	Narayan Lal, BL Lakaria, AK Vishwakarma, Asha Sahu, Hironmoy Das, AK Biswas, Pradip Dey and AB Singh	July 2020 to June 2024	Status report submitted	15.00	NRMAIISSSO L20200080022 2
22.	Exploring endophytic microbial diversity of selected major field crops of India for nutrient supplementation and biocontrol	J.K. Thakur, Asit Mandal, Dolamani Amat and MC Manna	July 2020 to June 2024	Status report and RPP-I, RPP-II 2020- 21 submitted	22.5	NRMAIISSSO L20200090022 3
23.	Impact of climate change on soil physical process in maize based cropping systems in vertisols of central India	Jitendra Kumar, NK Sinha, M Mohanty, J. Somasundara m, Alka Rani, KM Hati and RS Chaudhary	July 2020 to June 2024	Status report submitted	16.20	NRMAIISSSO L20200100022 4
24.	Evaluation of deficit irrigation levels and phosphorus nutrition levels for optimizing water productivity rooting behaviour and yield of wheat in semiarid climate of central India	Seema Bhardwaj, Alka Rani, Jitendra Kumar, Prabhat	July 2020 to June 2024	Status report submitted	18.00	NRMAIISSSO L20200110022 5

		Tripathi, J Somasundaram, RS Chaudhary, M Mohanty				
25.	Municipal solid waste compost quality assessment for sustainable crop production and environmental protection	M. Vassanda Coumar, Tapan Adhikari, Abhijit Sarkar, Nisha Sahu, J. K. Saha , Sunil Kumar Meena (CPCB), Hiranmoy Das, Ajay and Dinesh Kumar Yadav	July 2020 to June 2024	Status report submitted	15.00	NRMAIISSEO L20200120022 6
26.	Assessment/quantification of soil heavy metals using spectroscopy and multi-spectral remote sensing data from industrial areas of Kanpur	Nisha Sahu, Madhumonti Sah, JK Saha, NK Sinha, Hiranmoy Das, H Biswas (ICAR- NBSSLUP), Mrunalini Kan cheti (ICAR- IIPR, Kanpur)	July 2020 to June 2024	Status report submitted	12.82	NRMAIISSEO L20200120022 7
27.	Development of Nano Sensor and its application through cloud based network for real time irrigation to soil and plant funded by NASF, ICAR, New Delhi	Tapan Adhikari, C. D. Singh,	July 2021 to May 2024	Document submitted	291.0179 4	NRMAIISSCO L20210010022 1

		Samir Kumar Pal, S N Bose				
28.	Studies on N-(n-butyl) Thiophosphoric Triamide (NBPT) as a Urease Inhibitor for Improving Nitrogen Use Efficiency in major cropping systems in India funded by ICAR- CIMMYT collaboration (Agrotain project)	Pramod Jha, R Elanchezhian, BL Lakaria, B.P. Meena, Pradip Dey and AK Biswas	Kharif (July) 2021 to June 2022	Document submitted	27.37	MRMAIISSSI L20210020022
29.	Sustainable biochar production agroforestry systems and its application: A climate resilient soil management approach funded by ICRAF	BL Lakaria, Pramod Jha, AK Biswas, AK Vishwakarma, BP Meena, M Vassanda Coumar, Jitendra Kumar, Abinash Das, AK Patra, Javed Rizvi, SK Dhyani, Aqeel Hasan Rizvi, Archna Singh, Jamal Pervez Noor	1 July 2021 to 31 March 2023	Project document submitted	46.36	NRMAIISSCO L20210030022
30.	Do agricultural micro plastics undermine food security and sustainable development in less economically developed countries?" granted from NERC-GCRE of UKRI, UK Govt.	AK Patra, Tapan Adhikari, Asit Mandal, JK Thakur	February, 2021 to January 2025	MoU Submitted	23681331 .78	NRMAIISSCO L20210040023
31.	Enhancing input use efficiency and productivity of pulses	Sandeep	2020-	RPP- I and	0.00	CRSCIIPRSIL

	production system in central India (ICAR-IISS, Bhopal and ICAR-IIPR, Kanpur)	Kumar, Narendra Kumar, Pramod Jha, R Elanchezhian	2023	RPP-II submitted soft copy		201700600145
32.	Investigation of potentials of soil as a sink for nitrous oxide and strategies for mitigation nitrous oxide emission funded by DST SERB –POWER Fellowship	Sangeeta Lenka	April 2021 to March 2024	approval letter submitted	35.40	
33.	Evaluating the effect of Bio.soilz on soil nutrient availability and microbial activity under maize-wheat cropping system in vertisols of Central India funded by M/s Bio Soilz Pvt. Ltd, Patna	Asit Mandal, JK Thakur, AB Singh, R Elanchezhian, AK Patra	30 November 2021 to 31 May 2023	CR-I, MoU and Technical programme submitted	10.99996	NRMAISSSC L202101300233
34.	On farm evaluation of ECOWELL ORGANIC PRODUCTS under soybean-wheat cropping system	Asha Sahu, Sudeshna Bhattacharjya, Dolamani Amat, K. Bharati, AB Singh, AK Patra	1 April 2022 to 31 May 2023	CR-I, MoU and Technical programme submitted	13.08	NRMAISSSC L202200100235
35.	Phyllosphere methylotroph driven bioconversion of atmospheric greenhouse gas and volatiles to plant metabolites leveraging primary productivity in major crops and mitigation of climate change	SR mohanty			110.70	NRMAISSCO L202200100232
36.	Indoor quality herbs/vegetable production through verticle/geoponic farming with the intervention of nano tech/phosphor converted LED funded by Ravindra Nath Tagore University Bhopal	Sudeshna Ray, Tapan Adhikari, Ajay	August 2022 to July 2024	Document submitted	3.28	NRMAISSCO L202200200232