

EFSOA

Environmentally Friendly Smart Organic Agriculture

The work plan (activities) for the project partner 3: Federal state budget scientific institution “All-Russian Institute of Plant Protection”
for the first year of the project implementation

Month	Informational WP (activities and expected results)	Agrotechnical WP (activities and expected results)	Environmental WP (activities and expected results)	Communication and Dissemination WP (activities and expected results)	Note (date of submission of materials, report, etc.)
1	2	3	4	5	6
March 2020		Stock cultures working up and the inoculums result for liquid and solid-phase fermentation of strains producing biologics.			Last decade of March
April 2020		Biologics' Kartoffin, SC and Phytolar, G trial batches resulting and quality assessing for field trials.			Biologics' Kartoffin, SC and Phytolar, G trial batches resulting report, last decade of April
May 2020		Conducting pre-planting tubers' treatment with biologics and setting up field trials in assessing their efficacy using Udacha potato variety under the conditions of the Experimental Station at the Institute for Engineering and Environmental Problems in Agricultural Production, branch of Federal State Budgetary Scientific Institution “Federal Scientific AgroEngineering Centre VIM”.			Second decade of May
June 2020		Biologic's Kartoffin, SC trial batches resulting and quality assessing for spraying Udacha variety potato plants during the vegetation period.			Biologic's Kartoffin, SC trial batches resulting report, second decade of June
July 2020		Assessing biologics' Kartoffin, SC and Phytolar, G efficacy in the field trials under the conditions of the Experimental Station at the Institute for Engineering and Environmental Problems in Agricultural Production, branch of Federal State Budgetary Scientific Institution “Federal Scientific AgroEngineering Centre VIM”. Biometric accounting of Udacha variety potato plants development. Phytopathological accounting of Udacha variety potato plants' diseases extension and development.			Biometric accounting shall be carried out in the second decade of July; Phytopathological accounting shall be carried out in the last decade of July

1	2	3	4	5	6
August 2020		Phytopathological accounting of Udacha variety potato plants' diseases extension and development.			Second decade of August
September 2020		Accounting for the harvest and phytosanitary condition of Udacha variety potato tubers.			First decade of September
October 2020		Biologic's Kartoffin, SC trial batch resulting and quality assessing for pre-storing Udacha variety potato tubers' treatment. Primary processing of the obtained field trials' results for biologics' efficacy Kartoffin, SC and Phytolar, G in technologies for growing Udacha variety potatoes in an organic manner.			Biologic's Kartoffin, SC trial batch resulting and pre-storing Udacha variety potato tubers' treatment – first decade of October. Report on field trials of biologics' Kartoffin, SC and Phytolar, G trial batches – last decade of October
November 2020		Statistical processing of the obtained field trials' results for biologics' efficacy Kartoffin, SC and Phytolar, G in technologies for growing Udacha variety potatoes in an organic manner.			Last decade of November
December 2020	Preparation of materials for compiling a list of plant protection biologics for organic agriculture with recommendations for their use.	A comparative analysis for the methods of using biologics' Kartoffin, SC and Phytolar, G together with organic fertilizers in technologies for growing Udacha variety potatoes in an organic manner.		Preparation of materials on the methods of using polyfunctional biologics in the cultivation of Udacha variety potatoes in an organic manner.	Last decade of December
January 2021	Preparation of materials for compiling a list of plant protection biologics for organic agriculture with recommendations for their use.	Preparation of materials for the report on the evaluation of plant protection biologics' Kartoffin, SC and Phytolar, G efficacy in technologies for growing Udacha variety potatoes in an organic manner.		Preparation of materials on the methods of using polyfunctional biologics in the organic cultivation of potatoes.	Last decade of January
February 2021	The list of plant protection biologics for organic agriculture with recommendations for their use.	Annual report on the evaluation of plant protection biologics' Kartoffin, SC and Phytolar, G efficacy in technologies for growing Udacha variety potatoes in an organic manner.		Recommendations on how to use polyfunctional biologics when growing potatoes in an organic manner.	Last decade of February

Results & products:

1. 2-language information portal with regularly updated Knowledge Base on production and consumption of organic products and automated consulting service operating online;
2. Software - Information and Management Tool for smart organic farm;
3. Methodology and recommendations for management of Carbon, Nitrogen and Phosphorus regimes in organic agroecosystems
4. The Monitoring System which includes a drone, ground and soil sensors providing monitoring of the environment, soil and vegetation cover on the territory of the organic farm and supplying information to the Information management system;

5. The Method of integrated environmental assessment of agricultural company/farm;
6. Three electronic technological schemes of cultivation of the main organic crops
7. Group of specialized technical means adapted for the cultivation of agricultural crops in accordance with the requirements of organic farming;
8. Demonstration organic farm on the basis of IEEP Experimental station
9. Up to 3-4 Russian farms started the transition to organic production;
10. Two food industry enterprises and two trade enterprises interested in the production and marketing of organic products;
11. Pilot organic food chain from producer to consumer;
12. Video " Environmentally Friendly production of organic products»