CENTRALIZING TABLE OF PROJECTS AND RESULTS OF RESEARCH ACTIVITIES
The year 2020

Crt. No.	Project	No. CD contract	Product resulting from the CD activity (Technology/Method/Methodology)
1.	Research on new methods, techniques and procedures for evaluating and managing waste	PN 19 04 04 01 no. 20/2019 Additional act 5/2020	The evaluation method of some contaminants from waste in various conditions of leachability
2.	Research on new methods, techniques and procedures for evaluating and managing waste	PN 19 04 04 01 no. 20/2019 Additional act 5/2020	The method of characterizing some waste from pharmaceutical activities in order to identify some solutions for their recovery
3.	Research on new methods, techniques and procedures for evaluating and managing waste	PN 19 04 04 01 no. 20/2019 Additional act 5/2020	Experimental model (procedure) for the characterization and treatment of relevant hazardous/non-hazardous liquid waste from the Romanian industry for the purpose of recovery/recovery
4.	Research on new methods, techniques and procedures for evaluating and managing waste	PN 19 04 04 01 no. 20/2019 Additional act 5/2020	Experimental study for obtaining different formulas of combustible secondary raw materials from waste mixtures with lignocellulosic and polymeric composition
5.	Research on new methods, techniques and procedures for evaluating and managing waste	PN 19 04 04 01 no. 20/2019 Additional act 5/2020	Technological solutions for treating the two wastes by embedding them in construction materials
6.	Advanced materials, methods and technologies with applications in water treatment/purification	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental model for the removal by sonolysis associated with biological processes of halogenated compounds from groundwater
7.	Advanced materials, methods and technologies with applications in water treatment/purification	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental model of wastewater treatment by conventional hybrid processes - membrane
8.	Advanced materials, methods and technologies with applications in water treatment/purification	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental models for the degradation of target pollutants through advanced oxidation processes
9.	Advanced materials, methods and technologies with applications in water treatment/purification	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Laboratory-level experimental model for evaluating the physico-chemical characteristics that can result from non-cyanuric leaching of precious metals
10.	Advanced materials, methods and technologies with applications in water treatment/purification	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental model for the treatment of cellulosic vegetable waste in order to obtain materials with adsorbent properties
11.	Advanced materials, methods and technologies with applications in water treatment/purification	PN 19 04 03 01 no. 20/2019 Additional act	Research study on the efficiency of the operation of the biological step of the treatment plant

		5/2020	
12.	Alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	The method for determining Cr6+ from the emissions of fixed sources by molecular absorption spectrometry (UV-VIS)
13.	Alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	The method for determining Cr6+ from the emissions of fixed sources by atomic absorption spectrometry (GTAAS)
14.	Alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	Approach methodology for the evaluation of odor pollution in the vicinity of waste deposits
15.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	Methods for identifying biodegradation products and determining organic UV filters from bacterial culture samples
16.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	Detection method of anti-diabetic pharmaceutical substances and metabolites from sewage sludge
17.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	Method for simultaneous determination by GC-MS of some synthetic auxins and metabolites from plants and soil
18.	Biological models and molecular biomarkers for evaluating the toxic potential of water resources affected by anthropogenic pollution	PN 19 04 02 01 no. 20/2019 Additional Act 5/2020	Molecular experimental model to study the mechanisms of resistance to antibiotics and biocides
19.	Advanced methods and techniques for water quality assessment	PN 19 04 01 02 no. 20/2019 Additional Act 5/2020	The database with diatom species used in the evaluation of aquatic ecosystems in the western part of Romania
20.	Advanced methods and techniques for water quality assessment	PN 19 04 01 02 no. 20/2019 Additional Act 5/2020	Experimental model for the use of biosensors for surface water monitoring

21.	Research on increasing the efficiency of anaerobic fermentation in urban sewage treatment plants by implementing sludge disintegration technologies	POC-G-2015 no. 6538/27.042018	Advanced stabilization technology, enrichment in nutrients and pasteurization of sewage sludge
22.	Research on the use of phytoadditives in bird feeding in order to reduce environmental pollution with nitrogen - ADER 2022	No. 912/2019, Art. 6.1 of Collaboration Agreement no. 13704/ 30.08.2019	Study regarding the physico-chemical and microbiological characterization of samples of raw materials and combined feed
23.	Research on the use of phytoadditives in bird feeding in order to reduce environmental pollution with nitrogen - ADER 2022	No. 912/2019, Art. 6.1 of Collaboration Agreement no. 13704/ 30.08.2019	Study regarding the identification of risk factors and the assessment of the impact, resulting from the use of the two sets of new innovative fodder recipes, on the environment
24.	Research on the use of phytoadditives in bird feeding in order to reduce environmental pollution with nitrogen - ADER 2022	No. 912/2019, Art. 6.1 of Collaboration Agreement no. 13704/ 30.08.2019	Ranking the effectiveness of recipes for broiler chickens based on zootechnical performance, meat quality and environmental impact using the AHP method
25.	Research on new methods, techniques and procedures for evaluating and managing waste - acronym DESEVAL	PN 19 04 04 01 no. 20/2019 Additional Act 5/2020	The method implemented to determine the total phosphorus content in hazardous waste by the ICP-MS technique
26.	Research on new methods, techniques and procedures for evaluating and managing waste - acronym DESEVAL	PN 19 04 04 01 no. 20/2019 Additional Act 5/2020	The implemented method of characterization and evaluation of some hazardous waste that can complete the list of waste based on legislative regulations
27.	Research on new methods, techniques and procedures for evaluating and managing waste - acronym DESEVAL	PN 19 04 04 01 no. 20/2019 Additional Act 5/2020	Demonstration (functional) model for the characterization and treatment of relevant hazardous/non-hazardous liquid waste from the Romanian industry with a view to valorization;
28.	Research on new methods, techniques and procedures for evaluating and managing waste - acronym DESEVAL	PN 19 04 04 01 no. 20/2019 Additional Act 5/2020	Method implemented for determining the biogenic carbon content of secondary raw materials obtained from waste with lignocellulosic and polymeric composition
29.	Research on new methods, techniques and procedures for evaluating and managing waste - acronym DESEVAL	PN 19 04 04 01 no. 20/2019 Additional Act 5/2020	Preliminary technological options for obtaining new construction materials by valorizing the two wastes as substitutes for silico-aluminum materials
30.	Advanced materials, methods and technologies with applications in water treatment/purification - acronym ADVANTECH	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental model developed for reducing the degree of impurity of groundwater through combined enzyme-membrane processes
31.	Advanced materials, methods and technologies with applications in water treatment/purification - acronym ADVANTECH	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental model developed for wastewater treatment by combined enzyme-membrane processes
32.	Advanced materials, methods and technologies with applications in water treatment/purification	PN 19 04 03 01 no. 20/2019 Additional act	Experimental model developed for the removal of halogenated compounds from groundwater

	- acronym ADVANTECH	5/2020	
33.	Advanced materials, methods and technologies with applications in water treatment/purification - acronym ADVANTECH	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental study on the degradation kinetics of emerging pollutants such as parabens, phthalates, ciprofloxacin, flutamide through advanced oxidation processes
34.	Advanced materials, methods and technologies with applications in water treatment/purification - acronym ADVANTECH	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental model developed for the degradation of ciprofloxacin and methylparaben in the UV-VIS/TiO2 system
35.	Advanced materials, methods and technologies with applications in water treatment/purification - acronym ADVANTECH	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental model developed for the degradation of flutamide and dimethyl phthalate in the UV-VIS/H2O2/TiO2 system.
36.	Advanced materials, methods and technologies with applications in water treatment/purification - acronym ADVANTECH	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental study on the chemical and biological oxidation of thiol compounds in aqueous systems
37.	Advanced materials, methods and technologies with applications in water treatment/purification - acronym ADVANTECH	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Experimental model developed for the adsorption of pollutants from waste water using new materials with adsorbent properties
38.	Advanced materials, methods and technologies with applications in water treatment/purification - acronym ADVANTECH	PN 19 04 03 01 no. 20/2019 Additional act 5/2020	Research study regarding the selection of the mathematical model intended for the removal of nutrients and the evaluation of the need for experimental data.
39.	The alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change - acronym QALAIR	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	Case study regarding the extension of the biomonitoring method for the assessment of air quality in the vicinity of a waste incinerator;
40.	The alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change - acronym QALAIR	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	Case study regarding the extension of the biomonitoring method for air quality evaluation in the vicinity of a slaughterhouse;
41.	The alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change - acronym QALAIR	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	Case study regarding the extension of the biomonitoring method for air quality assessment in the vicinity of a poultry farm;

42.	The alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change - acronym QALAIR	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	Case study regarding the application of the approach methodology to the assessment of odor pollution in the field of paper and cardboard manufacturing
43.	The alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change - acronym QALAIR	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	Case study on the application of the approach methodology to the assessment of odor pollution in the field of tire and inner tube manufacturing
44.	The alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change - acronym QALAIR	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	The method for determining terpenes from the air inside buildings
45.	The alignment of air quality assessment methods/methodologies with the requirements of the regulations regarding the reduction of emissions and the improvement of the quality of life in the current context of climate change - acronym QALAIR	PN 19 04 02 02 no. 20/2019 Additional act 5/2020	Case study regarding the assessment of air quality inside buildings
46.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation - acronym BIOACUM	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	Study on the factors of translocation, enrichment and geoaccumulation from the polluted substrate to the aromatic plant white mustard (Sinapis alba), as a possible accumulator of toxic metals
47.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation - acronym BIOACUM	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	Study on the translocation of metals and their accumulation in the aerial parts of a marigold species (Calendula officinalis)
48.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation - acronym BIOACUM	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	Bioaccumulation study of some organic pollutants from sunscreens (UV filters) in fish organs and tissue
49.	Advanced research on the transfer of emerging	PN 19 04 01 01 no.	Distribution study of antidiabetic contaminants between the used aqueous

	contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation - acronym BIOACUM	20/2019 Additional act 5/2020	phase and sewage sludge
50.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation - acronym BIOACUM	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	Study regarding the identification of synthetic auxins and degradation products from soil and vegetation samples under the influence of different biotic and abiotic factors
51.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation - acronym BIOACUM	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	Study regarding the evaluation of the degree of contamination with organic pollutants (polycyclic aromatic hydrocarbons and polychlorinated biphenyls) adsorbed on microplastics taken from the Olt River upstream and downstream of the municipal sewage treatment plant in Ramnicu Valcea
52.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation - acronym BIOACUM	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	Study regarding the evaluation of the degree of contamination with organic pollutants (polycyclic aromatic hydrocarbons and polychlorinated biphenyls) adsorbed on microplastics taken from the Olt river upstream and downstream of the municipal sewage treatment plant in Slatina
53.	Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation - acronym BIOACUM	PN 19 04 01 01 no. 20/2019 Additional act 5/2020	The method for determining some endocrine disruptors such as perfluorinated organic compounds from waste and surface water samples
54.	Biological models and molecular biomarkers for evaluating the toxic potential of water resources affected by anthropogenic pollution - acronym SMARTWAY	PN 19 04 02 01 no. 20/2019 Additional Act 5/2020	Functional molecular microchip experimental model
55.	Advanced methods and techniques for water quality assessment - acronym ECOSENZ	PN 19 04 01 02 no. 20/2019 Additional Act 5/2020	Individual voltammetric detection procedure of some emerging pollutants in waters
56.	Advanced methods and techniques for water quality assessment - acronym ECOSENZ	PN 19 04 01 02 no. 20/2019 Additional Act 5/2020	Individual amperometric detection procedure of some emerging pollutants in waters
57.	Installation for removing organic pollutants from waste water based on photocatalysis and biological processes - acronym BIOCAT	PN-III-P2-2.1-PTE-2019-0628	The prospective study on bacterial strains with superior yield in aerobic biological purification
58.	The selection and dissemination of antibiotic resistance genes from wastewater treatment plants in the aquatic environment and the clinical sector - acronym RADAR	PN-III-P4-ID-PCCF-2016-0114	Technical-scientific study regarding the physical-chemical and bacteriological analysis of the samples taken in 2020, collection of microbial strains resistant to antibiotics