Page 1 of 4

	PROJECT TITLE	BENEFICIARIES
1.	Field Detection System for Saxitoxin: A Novel Approach Using the Receptor Binding Assay Technology for In Situ Monitoring of Paralytic Shellfish Toxins	<ul> <li>BFAR as regulatory agency</li> <li>Shellfish industry</li> <li>General public</li> <li>Fishing industry</li> </ul>
2.	Enhancing Capacity for Industrial Applications of Gamma Scanning Technology	<ul> <li>Petroleum, geothermal, petrochemical and water systems industries</li> </ul>
3.	Determination of Gross Alpha and Beta Activities in Water	<ul> <li>DCWD and its customers</li> </ul>
4.	Application of Isotopic and Geochemical Techniques to Uncover Point and Non-point Sources of Organic Nutrient Contamination in the Neritic Zone of Boracay	<ul> <li>Researchers</li> <li>Academe</li> <li>Regulatory bodies</li> <li>Industries</li> <li>Aklan and Malay LGUs</li> <li>General public</li> </ul>
5.	Strengthening the Safety of Workers Occupationally Exposed to Radiation Through OSL	<ul><li> Radiation workers</li><li> General public</li></ul>
6.	Determination and Monitoring of Radioactivity-Emitting Nuclides in Designated Fresh Water Sources all over the Philippines	<ul><li> Coca-Cola Bottlers Phils.</li><li> FDA</li></ul>
7.	Characterization of Aklan River	<ul> <li>Aklan State University academe and researchers</li> <li>LGUs</li> <li>Aklan population</li> </ul>
8.	Application of Nuclear Analytical Techniques for Efficient Nutrient and Irrigation Management in Corn Production	<ul> <li>Backyard farmers</li> <li>Commercial corn growers</li> <li>Water managers</li> <li>Water users associations</li> <li>Researchers and scientists</li> <li>Government agencies</li> <li>Research and academic institutions</li> <li>LGUs</li> <li>Non-government organizations</li> </ul>
9.	Comparative Studies on Biofertilizer Carrier Sterilization through Autoclaving and Gamma Irradiation	<ul> <li>Government agencies (DA-RFUs, LGUs)</li> <li>Biofertilizer mixing plant operators</li> <li>Academic and research institutions</li> <li>Private sector</li> </ul>
10.	Compatibility of Bactrocera philippinensis and B. occipitalis Sibling Species of Oriental Fruit Fly	Mango growers
11.	Development of Integrated Pest Management Strategies against Brontispa longissima (Gestro), an Invasive Coconut Pest and Other Palm Species: Component 6. Effect of Gamma Irradiation on the Sterility of B. longissima (Gestro)	General public
12.	Development of Sterile Insect Technique for Dengue Mosquito Vector, Aedes aegypti, Using Gamma Irradiation	<ul><li>General public</li><li>Health sector</li></ul>
13.	Effects of Biofertilization and N Levels on Nitrogen Nutrition of Grain Cereals	<ul><li>Farmers</li><li>Agriculture sector</li></ul>

Page 2 of 4

	PROJECT TITLE	BENEFICIARIES
14.	Enhancing the Agricultural Productivity in Mindanao through Technology: Fruit Crops (Cashew and Mangosteen)	<ul><li>Farmers</li><li>Agriculture sector</li></ul>
15.	Enhancing the Agricultural Productivity of Adlai (Coix lacryma jobi L.) by Nuclear Technique, Soil and Water Management Practices	<ul><li>Farmers</li><li>General public</li></ul>
16.	Grain Quality Improvement in Rice (Oryza sativa L.) Through Induced Mutation Breeding	<ul><li>Farmers</li><li>General public</li></ul>
17.	Improvement of Crop Quality and Stress Tolerance for Sustainable Crop Production Using Mutation Techniques and Biotechnology in Mungbean (Vigna radiata)	<ul><li>Farmers</li><li>General public</li></ul>
18.	Mutation Breeding of Priority Agricultural Crops: Component 1. Ornamentals	<ul><li>Ornamental growers</li><li>Farmers</li><li>Agriculture sector</li></ul>
19.	Nuclear Techniques and Fertigation to Improve Water and Nutrient-Use Efficiencies of Mungbean Mutants	<ul> <li>Backyard farmers and commercial growers</li> <li>Water managers</li> <li>Water users associations</li> <li>Researchers and scientists</li> <li>Government agencies</li> <li>Research and academic institutions</li> <li>LGUs</li> <li>Non-government organizations</li> </ul>
20.	Varietal Improvement of Selected Ornamental Crops (Spathoglottis Orchids, Foliage-type Anthuriums and Hoyas) Through Gamma Irradiation	<ul> <li>Researchers</li> <li>Plant breeders</li> <li>Ornamental plant growers</li> <li>Commercial nurseries/farms, floriculture industry</li> <li>Hobbyists/private collectors</li> <li>National and international germplasm collection (genebanks)</li> </ul>
21.	Water Balance and Loss Assessment of the Upper Pampanga River Integrated Irrigation System (UPRIIS) and Magat River Integrated Irrigation System (MARIIS)	<ul> <li>Government agencies (NIA, DA-RFUs, LGUs)</li> <li>Policy makers</li> <li>Researchers, engineers and scientists</li> <li>Academic institutions</li> <li>Non-government organizations (irrigator's associations, farmers association)</li> <li>Private sector</li> </ul>
22.	Capacity Building in the Use and Operation of Small Neutron Sources	<ul><li>Academe</li><li>Researchers</li></ul>
23.	Heavy Metals and Radionuclide at the Liquid Solid Interface	<ul><li>General public</li><li>Environment sector</li></ul>
24.	Development of Filipino Ethnic Food for Immunocompromised Patients and Calamity Victims	General public
25.	Development of Radiation Sterilized Honey-Wound Dressing	General public
26.	Enhancing Cytogenetic Biological Dosimetry Capabilities of the Philippines for Nuclear Incidence Preparedness	<ul><li>General public</li><li>Radiation workers</li></ul>

Page 3 of 4

	PROJECT TITLE	BENEFICIARIES
27.	Food Irradiation: The Use of Gamma Radiation for Shelf-life Extension of Brown Rice	<ul><li>General public</li><li>Food companies</li></ul>
28.	Application of Nuclear Based Receptor Binding Assay (RBA) Technology in the Analysis and Risk Assessment of Harmful Algal Blooms (HABs)	Marine fisheries sector
29.	Evaluation of the Effects of Radiation-Modified Carrageenan and Chitosan on the Growth and Yield of Mungbean (Vigna radiate [L] R. Wilczek and Peanut (Arachis hypogaea L.)	<ul><li> Agricultural sector</li><li> Farmers</li></ul>
30.	Hemostatic Agents from Radiation Cross-Linked Polysaccharides and their Derivatives: Product Development and Efficacy/Safety Evaluation in Animal Model	<ul><li>Health sector</li><li>Military</li><li>General public</li></ul>
31.	Radiation-Processed Materials from Carrageenan and Chitosan for Agricultural, Health and Environment Applications	<ul><li>Marine industry</li><li>Environmental sector</li><li>General public</li></ul>
32.	Environmental Radioactivity Monitoring in PNRI Grounds and Vicinities	<ul><li>General public</li><li>Environment sector</li></ul>
33.	Management of CTBTO Stations in the Philippines: RN52 and NDC-137	<ul><li>General public</li><li>Environment sector</li></ul>
34.	Radiological Assessment of NORM/TENORM in the Philippine Environment	<ul><li>General public</li><li>Environment sector</li></ul>
35.	Radiological Impact Assessment of the Fukushima Nuclear Power Accident in the Philippine Marine Environment	<ul><li>General public</li><li>Environment sector</li></ul>
36.	Developing PNRI Capability for Electron Beam Technology Applications	<ul> <li>Researchers</li> <li>Academe</li> <li>Regulatory bodies</li> <li>Industries</li> <li>Environmental/agricultural/ medical sectors</li> <li>General public</li> </ul>
37.	Radiotracer and Sealed Sources Applications in Industry	Petrochem, industrial companies
38.	Tc-99m and Tc-99m Radiopharmaceutical Preparation and Quality Control for Nuclear Medicine and Application	<ul><li>Nuclear medicine centers</li><li>Patients</li></ul>
39.	Air Pollution Source Apportionment	<ul> <li>Industries</li> <li>Researchers/academe</li> <li>Students</li> <li>General public</li> <li>LGUs</li> </ul>
40.	Application of Stable Isotopes to the Assessment of Pollution Loading from Various Sources within the Pampanga River Basin into the Manila Bay	<ul><li>Water sector</li><li>General public</li></ul>
41.	Applying Isotope Techniques to Groundwater Dynamics and Recharge Rate for Sustainable Groundwater Resource Management	<ul><li>Water sector</li><li>General public</li></ul>
42.	Development and Applications of Isotope Techniques for Hydrological Studies	<ul><li>LGUs</li><li>Researchers/academe</li></ul>
43.	Food Origin Authentication and Detection of Synthetic Acetic Acid Adulteration in Philippine Vinegar Using Liquid Scintillation Counting and Isotope Ratio-Mass Spectrometry	<ul><li>Nutri-Asia</li><li>Vinegar industry</li><li>FDA</li></ul>

#### Page 4 of 4

	PROJECT TITLE	BENEFICIARIES
44.	Isotope Provenance Studies in Material Origin Identification/Assignment and Environmental Studies	<ul> <li>LGUs</li> <li>Public</li> <li>Researchers/academe</li> <li>Consumers</li> </ul>
45.	Multi-element and Black Carbon Determination of Air Particulate Samples from Caloocan City	<ul> <li>EMB</li> <li>LGU of Caloocan City</li> <li>General public</li> <li>Researchers/academe</li> </ul>
46.	Neutron Activation Analysis of Marine Sediment and Rice Samples	<ul><li>LGUs</li><li>Public</li><li>Researchers/academe</li></ul>
47.	Preparation of In-House Reference Materials for Radioactivity Measurements for PNRI Inter Laboratory Exercises	PNRI     Customers
48.	Characterization of the Natural Radioelement Signatures of Porphyry Copper- Gold Deposits in the Philippines by Gamma Ray Spectrometry: Implications to Minerals Exploration	<ul> <li>Mining and minerals industry</li> </ul>
49.	Extraction of Uranium from Phosphoric Acid	<ul> <li>Fertilizer and extractive industries</li> <li>Agricultural, environment and health sector</li> </ul>
50.	Gamma Ray Spectrometric Survey of the Philippines: The Batanes Group of Islands	<ul><li>Environment</li><li>General public</li></ul>
51.	Geochemical and Radiometric Characterization of the Thorium-Rare Earth Sand Deposits in San Vicente, Northern Palawan	<ul> <li>Mining and minerals industry</li> <li>Community settlers</li> <li>Health sector</li> <li>Tourism industry</li> </ul>
52.	The Use of Radon in the Monitoring of the Philippine Fault (PF) and the Valley Fault System (VFS) and its Implication as an Earthquake Precursor	<ul> <li>Major cities and municipalities situated close to the northern section of the PF and VFS</li> <li>Government agencies responsible for handling disaster management and preparedness programs</li> </ul>

Prepared by:

• MA. CELERINA M. RAMIRO

Head, Planning Section