

LIST OF 2016 PNRI PROJECT BENEFICIARIES

PROJECT TITLE	BENEFICIARIES
1. Application of Food Irradiation Technologies for Enhancing Food Safety Quality and Agricultural Trade: Effect of Gamma Irradiation on the Quality of Stored Brown Rice Using Different Packaging Materials	<ul style="list-style-type: none"> • General public
2. Application of Nuclear Analytical Techniques for Efficient Nutrient and Irrigation Management in Corn Production	<ul style="list-style-type: none"> • Backyard farmers • Commercial corn growers • Water managers • Water users associations • Researchers and scientists • Government agencies • Research and academic institutions • LGUs • Non-government organizations
3. Assessing the Applicability of Pb-210 Dating Technique in Selected Mangrove Areas in the Philippines	<ul style="list-style-type: none"> • Environmental managers • Environmental scientists • General public
4. Assessment of Radioactivity in the Philippine Marine Environment for Possible Long-Term Effects of the Fukushima Nuclear Power Plant Accident	<ul style="list-style-type: none"> • General public • Environment sector
5. Capacity Building in the Use and Operation of Small Neutron Sources Phase II (2016-2020)	<ul style="list-style-type: none"> • Academe • Researchers
6. Characterization of Radiation Damage and Applications of Uranium/Thorium Bearing Heavy Minerals Using Nuclear and Other Related Techniques Phase I (2012-2016)	<ul style="list-style-type: none"> • Mining and minerals industry
7. Comprehensive Extraction of Uranium	<ul style="list-style-type: none"> • Fertilizer and extractive industries • Agricultural • Environment and health sector
8. Rare Earth Elements and Other Valuable Resources from Wet Phosphoric Acid	
9. Determination of Concentration Factor of Cesium-137 in Philippine Green Mussels (<i>Perna viridis</i>)	<ul style="list-style-type: none"> • General public • Environment sector
10. Determination of Radon Levels in Dwelling Places in the Philippines and Its Possible Implications to Human Health	<ul style="list-style-type: none"> • General filipino public
11. Development and Applications of Nuclear Related and Isotope Techniques in Cosmetic and Pharmaceutical Sciences (Phase I)	<ul style="list-style-type: none"> • LGUs • Public • Researchers/academe • Consumers
12. Development of Handling Transport Release and Trapping Methods of Dengue Mosquito Vector, <i>Aedes aegypti</i> , in the Philippines	<ul style="list-style-type: none"> • Health sectors • Researchers/scientists
13. Development of Novel Biomedical Products Utilizing Gamma and Electron Beam Facilities	<ul style="list-style-type: none"> • General public
14. Distribution of Trace Metals in Rare Earth Beach Sand Deposits in San Vicente, Northern Palawan	<ul style="list-style-type: none"> • DENR-MGB • Provincial and municipality of San Vicente • Palawan
15. Electron Beam-Induced Grafting of Abaca/Polyester Nonwoven Fabric and Its Application as Toxic Metal Ion Adsorbent	<ul style="list-style-type: none"> • Abaca and nonwoven fabrics/natural and synthetic fibers industry • Industries generating waste waters contaminated with heavy metals

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16. Enhancing Cytogenetic Biological Dosimetry Capabilities of the Philippines for Nuclear Incident Preparedness	<ul style="list-style-type: none"> • General public • Radiation workers • Physicians • Regulatory authorities
17. Enhancing National Capacity for Extraction of Uranium, Rare Earth Elements and Other Useful Commodities from Phosphoric Acid	<ul style="list-style-type: none"> • Fertilizer and extractive industries • Agricultural • Environment and health sector
18. Environmental Radioactivity Monitoring in PNRI Grounds and Vicinities	<ul style="list-style-type: none"> • General Filipino public
19. Establishment of a Real-Time Environmental Radiation Monitoring System in the Philippines	<ul style="list-style-type: none"> • General public • Environment sector • Nuclear emergency responder
20. Evaluation of the Effects of Radiation-Modified Carrageenan on the Growth and Yield of Mungbean (<i>Vigna radiata</i> [L.] R. Wilczek) and Peanut (<i>Arachis hypogaea</i> L.)	<ul style="list-style-type: none"> • Farmers • Researchers/scientists
21. Feasibility Study for the Establishment of a Research Reactor	<ul style="list-style-type: none"> • Researchers • Academe • Industry
22. Feasibility Study for the Establishment of an Accelerator Facility	<ul style="list-style-type: none"> • Researchers • Academe • Industry
23. Field Detection System for Saxitoxin: Assay Development and Optimization (Phase II)	<ul style="list-style-type: none"> • Environmental managers • Fisher folks • General public
24. Generating Radiological Data from CTBTO Stations in the Philippines: PHP52 and NDC-PH	<ul style="list-style-type: none"> • General Filipino public • Environmental sector • Nuclear emergency responders
25. Geochemical and Radiometric Characterization of the Cu-Mo-U Occurrences in the Larap-Paracale Mineralized District, Camarines Norte, Philippines	<ul style="list-style-type: none"> • Mining and minerals industry • Community/settlers health sector • Tourism industry
26. Hemostatic Agents from Radiation-Modified Polysaccharides and Their Derivatives: Product Development and Efficacy Safety Evaluation in Animal Model	<ul style="list-style-type: none"> • Health sector • Military • Academe and general public
27. Improvement of Adlai (<i>Coix lacryma-jobi</i> L.) by Gamma Irradiation	<ul style="list-style-type: none"> • Farmers and agricultural sector
28. Improvement of Rearing Methods of Dengue Mosquito vector, <i>Aedes aegypti</i> , for Sterile Insect Technique (Phase I)	<ul style="list-style-type: none"> • Health sector • Researchers/scientists
29. Improvement of the Recommended Sugarcane Varieties Using Nuclear Technology and Biotechnology	<ul style="list-style-type: none"> • Ethanol industries/distilleries • Sugar mills • Sugarcane farmers/growers • Plant breeders/ researchers
30. Improvement of Traditional Rice Varieties by Gamma Irradiation	<ul style="list-style-type: none"> • Farmers and agricultural sector

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31. Nutrient Dynamics Assessment of Inorganic and Organic Rice-Based Farming Systems in the Pampanga River Basin through Lysimetric and Isotopic Techniques	<ul style="list-style-type: none"> • Backyard farmers • Commercial corn growers • Water managers • Water users associations • Researchers and scientists • Government agencies • Research and academic institutions • LGUs • Non-government organizations
32. Promotion and Utilization of Organic Production System and Irradiation Technology in the Production of Safe and Quality Bee Products	<ul style="list-style-type: none"> • General public • Bee keepers • Farmers and entrepreneurs
33. Radiation-Induced Grafting of Nonwoven Fabrics for Tanning Industry Wastewater Treatment to Meet Class C Effluent Heavy Metal Standards	<ul style="list-style-type: none"> • Tanning industry
34. Radiological Assessment of NORMs and TENORMs in Buildings and Geothermal Industries in the Philippines	<ul style="list-style-type: none"> • General Filipino public
35. Radon Monitoring of the Valley Fault System and Philippine Fault and its Implication as an Earthquake Precursor	<ul style="list-style-type: none"> • General Filipino public
36. Resource Evaluation and Characterization of Uranium, Thorium, Rare Earth and Other Essential Elements from Commercial Phosphate Fertilizer Processing Industry in the Philippines	<ul style="list-style-type: none"> • Mining and minerals industry • Community/settlers health sector
37. S&T-Based Soil Nutrient and Water Management for Coffee in the Philippines: Component 1. Efficient Nutrient Management for Enhanced Coffee Productivity through Isotope Tracer and Related Techniques	<ul style="list-style-type: none"> • Farmers • Commercial coffee growers • Researchers and scientists • Research and academic institutions • LGUs and non-government organizations
38. Sedimentation Rate Determination and Age Dates Calculation Using Pb-210 Dating Method	<ul style="list-style-type: none"> • Environmental managers • General public
39. Semi-Commercial Scale Testing of Radiation-Modified Carrageenan as Plant Growth Promoter	<ul style="list-style-type: none"> • Farmers • Researchers/scientists
40. Smart Farming-Based Efficient Nutrient Management to Increase Sugarcane Productivity through Elemental Tracer and Related Techniques	<ul style="list-style-type: none"> • Sugarcane farmers • Researchers and scientists • Provincial/municipal agriculturists and extensionists • Government agencies • Research and academic institutions • LGUs • Nongovernment organizations
41. Temporal Variation of Ambient Gamma Dose Rate Levels in Aparri, Cagayan with Meteorological Conditions	<ul style="list-style-type: none"> • Radiation emergency responders • Environment sector • General public
42. The Use of Radon in the Monitoring of the Valley Fault System and Its Implication as an Earthquake Precursor	<ul style="list-style-type: none"> • DOST-PHIVOLCS • DILG-LGUs • NDRRMC • Local residents transected by the VFS
43. Third Philippine Nuclear Congress	<ul style="list-style-type: none"> • General public

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44. Transfer of AOAC Accredited Isotope-Based Receptor Assay for Paralytic Shellfish Toxins to Regulatory Setting	<ul style="list-style-type: none"> • BFAR • Fisheries industry • Researchers/scientists • General public
45. Verification Survey for Radioactive Rare Earth Minerals in Northern Palawan	<ul style="list-style-type: none"> • Mining and minerals industry • Community/settlers health sector • Tourism industry
46. Water Balance and Loss Assessment of the Upper Pampanga River Integrated Irrigation System (UPRIIS) and Magat River Integrated Irrigation System (MARIIS)	<ul style="list-style-type: none"> • Government agencies (NIA, DA-RFUs, LGUs) • Policy makers • Researchers • Engineers and scientists • Academic institutions • Non-government organizations (irrigator's associations) • Farmers association) • Private sector

Prepared by:


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