LIST OF 2015 PNRI PROJECT BENEFICIARIES

PROJECT TITLE	BENEFICIARIES
1. The Use of Radon in the Monitoring of the Philippine and Valley Fault System and Its Implication as an Earthquake Precursor	• Cities and municipalities transected or close to northern section affected by earthquake
2. Natural Background Radioactivity Measurements in Southern Palawan	• LGU • Local residents of the study area
3. Development of Filipino Ethnics Foods for Immunocompromised Patients and Calamity Victims	• Immunocompromised patients/calamity victims
4. Development of Sterile Insect Technique for Dengue Mosquito Vector, Aedes aegypti, Using Gamma Irradiation	• Communities in urban and suburban areas • Health sector • Researchers/scientists
5. Third Philippine Nuclear Congress	• General public • PNRI stakeholders • Media partners • DOST and other government agencies
6. Isotope Techniques Application for Groundwater Resources Characterization and Assessment	• Water utilities • Water resources regulators/policy makers • LGUs • General public
7. Transfer of AOAC Accredited Isotope-Based Receptor Assay for Paralytic Shellfish Toxins to Regulatory Setting	• BFAR • Fisheries industry • Researchers/scientists • General public
8. Enhancing Productivity of Locally Underused Crops through Mutated Germplasm and Evaluation of Soil, Nutrient and Water Management Practices	• Farmers • Agricultural sector
9. 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	• Farmers • Commercial coffee growers • Researchers and scientists • Research and academic institutions • LGUs • Non-government organizations
10. Enhancing Agricultural Productivity in Mindanao through Nuclear Technology: Fruit Crops (Mangosteen and Cashew)	• Farmers • Agricultural sector • Researchers
11. Nutrient Dynamics Assessment of Inorganic and Organic Rice-Based Farming Systems in the Pampanga River Basin through Lysimetric and Isotopic Techniques	• Backyard farmers • Commercial rice growers • Water managers • Water users associations • Agricultural officers and extensionists • Researchers and scientists • Government agencies • Research and academic institutions • LGUs • Non-government organizations

LIST OF 2015 PNRI PROJECT BENEFICIARIES

PROJECT TITLE	BENEFICIARIES
12. Application of Nuclear Analytical Techniques for Efficient Nutrient and Irrigation Management in Corn Production	• Backyard farmers • Commercial corn growers • Water managers • Water users associations • Researchers and scientists • Government agencies • Research and academic institutions • LGUs • Non-government organizations
13. Water Balance and Loss Assessment of the Upper Pampanga River Integrated Irrigation System (UPRIIS) and Magat River Integrated Irrigation System (MARIIS)	• Government agencies (NIA, DA-RFUs, LGUs) • Policy makers • Researchers • Engineers and scientists • Academic institutions • Non-government organizations (irrigator's associations, farmers associations) • Private sector
14. Mutation Breeding of Priority Agricultural Crops: Component 1 - Ornamentals	• Researchers • Plant breeders • Ornamental plant growers • Commercial nurseries/farms • Floriculture industry • Hobbyists/private collectors • National and international germplasm collection (genebanks)
15. Nuclear Techniques and Fertigation to Improve Water and Nutrient-Use Efficiencies of Mungbean (RAS5/0/56)	• Backyard farmers • Commercial producers • Water managers • Water users associations • Researchers and scientists • Government agencies • Research and academic institutions • LGUs • Non-government organizations
16. Improvement of Traditional Rice Varieties by Gamma Irradiation	• Farmers and general public
17. Smart Farming-based Nutrient and Water Management for Rice and Corn Production: Project 2 - Application of Nuclear Analytical Techniques in Improving Nutrient and Irrigation Management in Corm Production Project 3 - Water Balance and Loss Assessment of the Upper Pampanga River Integrated Irrigation System	• Backyard farmers • Commercial corn growers • Water managers • Water associations • Researchers and scientists
18. Smart Farming-based Efficient Nutrient Management to Increase Sugarcane Productivity through Elemental Tracer and Related Techniques	• Sugarcane growers • Researchers
19. Application of Food Irradiation Technologies for Enhancing Food Safety, Quality and Agricultural Trade	• General public

LIST OF 2015 PNRI PROJECT BENEFICIARIES

PROJECT TITLE	BENEFICIARIES
20. Enhancing Cytogenetic Biological Dosimetry Capabilities of the Philippines for Nuclear Incident Preparedness	• General public • Radiation workers • Physicians • Regulatory authorities
21. Effect of Gamma Irradiation on the Quality of Stored Brown Rice Using Different Packaging Materials	• Regular consumers • Immunocompromised patients
22. Development of Novel Biomedical Products Utilizing Gamma and Electron Beam Facility	• General public
23. Promotion and Utilization of Organic Production System and Irradiation Technology in the Production of Safe and Quality Bee Products	• Organic farmers • Researchers • Microbiologists
24. Field Detection System for Saxitoxin: Assay Development and Optimization (Phase II)	• Environmental managers • Fisher folks • General public
25. Electron Beam-Induced Grafting of Abaca/Polyester Nonwoven Fabric and Its Application as Toxic Metal Ion Adsorbent	• Abaca and nonwoven fabrics/natural and synthetic fibers industry • Industries generating waste waters contaminated with heavy metals
26. Hemostatic Agents from Radiation Cross-linked Polysaccharides and Their Derivatives for Military and Surgical Applications	• Army • Healthcare providers • General public
27. Assessing the Applicability of Pb-210 Dating Technique in Selected Mangrove Areas in the Philippines	• Environmental managers • Environmental scientists • General public
28. Sedimentation Rate Determination and Age Dates Calculation Using Pb-210 Dating Method	• Environmental managers • General public
29. Evaluation of the Effects of Radiation-Modified Carrageenan on the Growth and Yield of Mungbean (Vigna radiata [L.] R. Wilczek) and Peanut (Arachis hypogaea L.)	• Rice farmers and seed growers • Researchers and scientists • Research and academic institutions
30. Radiation-Induced Grafting of Nonwoven Fabrics for Tanning Industry Wastewater Treatment to Meet Class C Effluent Heavy Metal Standards	• Tanning industry • DENR • General public
31. Capacity Building in the Use and Operation of Small Neutron Sources Phase I (2011–2015)	• Academe • Researchers
32. Characterization of Radiation Damage and Applications of Uranium/Thorium Bearing Heavy Minerals Using Nuclear and Other Related Techniques Phase I (2012–2016)	• Mining and minerals industry
33. Generating Radiological Data from CTBTO Stations in the Philippines: PHP52 and NDC-PH	• General Filipino public
34. Environmental Radioactivity Monitoring in PNRI Grounds and Vicinities	• General Filipino public
35. Radiological Impact Assessment of the Fukushima Nuclear Accident in the Philippine Marine Environment	• General public • Environment sector
36. Radiological Assessment of NORM and TENORM in Construction Materials and Geothermal Industries in the Philippines	• General Filipino public

LIST OF 2015 PNRI PROJECT BENEFICIARIES

PROJECT TITLE	BENEFICIARIES
37. Establishment of Real-time Environmental Radiation Monitoring System in the Philippines	• General public • Environment sector
38. Determination of Concentration Factor of Cesium-137 in Philippine Green Mussels (Perna viridis)	• General public • Environment sector
39. Determination of Radon Levels in Dwelling Places in the Philippines and Its Possible Implications to Human Health	• General Filipino public
40. Temporal Variation Profile of the Real-time Environmental Radiation Monitoring System in PNRI	• General public • Environment sector
41. Characterization of the Natural Radioelement Signatures of Porphyry Copper-Gold Deposits in the Philippines by Gamma Ray Spectrometry: Implications to Minerals Exploration Acid	• Mining and mineral industries
42. Comprehensive Extraction of Uranium, Rare Earth Elements and Other Valuable Resources from Wet Phosphoric Acid	• Fertilizer industry • Mining and minerals extraction industry • Energy sector
43. Radon Monitoring of the Valley Fault System and Philippine Fault and Its Implication as an Earthquake Precursor	• General public
44. Enhancing National Capacity for Extraction of Uranium, Rare Earth Elements and Other Useful Commodities from Phosphoric Acid	• Fertilizer and extractive industries • Agricultural, environment and health sector
45. Verification Survey for Radioactive Rare Earth Minerals in Northern Palawan	• Mining and minerals industry • Community/settlers health sector • Tourism industry
46. Program on Development and Applications of Nuclear-Based and Related Analytical Techniques	• Industries • Researchers/academe • General public • LGUs
47. Program on Development and Applications of Isotope Techniques for Hydrological and Environmental Studies	• LGUs • Researchers/academe
48. Air Pollution Source Apportionment	• Industries • Researchers/academe • Students • General public • LGUs
49. Program on Isotope Provenance Studies in Material Origin Identification/Assignment	• LGUs • Public • Researchers/academe • Consumers
50. Building Capacity for the Preparation and Quality Control of Radiopharmaceuticals for Enhanced Nuclear Medicine Application	• Nuclear medicine centers and practitioners • Hospital patients
51. Enhancing National Capacity in Applications of Industrial Radioisotope Techniques	• Petroleum and petrochemical industries
52. Development of Sediment Quality Guidelines in the Philippines	• Marine environment sector
53. Setting Up of One-Stop Shop Laboratory for Global Competitiveness	• PNRI employees • DOST agencies

LIST OF 2015 PNRI PROJECT BENEFICIARIES

PROJECT TITLE	BENEFICIARIES
54. Upgrading of Soil Science and Crop Nutrition Research Laboratory to Enhance Ability to Develop Climate Smart and precision Agriculture Technologies	• Farmers • Researchers

Prepared by:

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