

TANZANIA ATOMIC ENERGY COMMISSION

List of AFRA Projects

SNo	Project Code	Project Title	Objective(s)
1	RAF0031	Promoting Human Resources Development and Nuclear Knowledge Management (AFRA)	To implement the AFRA strategy on HRD and NKM by establishing AFRA-NEST to facilitate operation and networking in higher education, training, and related research in nuclear science and technology in the African region
2	RAF1004	Supporting Radioisotope Technology as a Diagnostic Tool for Plant Process Performance, Optimization and Troubleshooting (AFRA)	To enhance the regional capability in promoting radioisotope technology for optimization of industrial processes in AFRA Member States
3	RAF0042	Promoting the Sustainability and Networking of National Nuclear Institutions for Development	To enhance the self-reliance and sustainability of national nuclear institutions and other end users of nuclear techniques in African Member States
4	RAF0043	Enhancing Human Resources Development and Nuclear Knowledge Management (AFRA)	To implement AFRA strategy for human resources development (HRD) and nuclear knowledge management (NKM) by strengthening the AFRA-NEST to facilitate the operation and networking in education, training and related research in nuclear science and technology in the African region
5	RAF1005	Strengthening the Capacity for Research Reactor Safety and Applications in Africa (AFRA)	To strengthen the safety culture at research reactor facilities for safe operation to enhance effective utilization.
6	RAF2009	Planning for Sustainable Energy Development	To consolidate and further develop national and regional energy planning capabilities in AFRA Member States
7	RAF2010	Developing, Expanding and Reinforcing Energy Planning Capabilities including Nuclear Power (AFRA)	To support the development of energy planning capabilities and to provide training where the necessary infrastructure is already in place and where there is visible support for the project from the Government
8	RAF3006	Improving Waste Management Infrastructure in Africa (AFRA)	To continuously improve radioactive waste management infrastructure in African Member

			States.
9	RAF6037	Sustaining Clinical Nuclear Medicine Techniques in the Management of Diseases, Including Coronary Artery Disease (AFRA)	To contribute to the management of selected major diseases in Africa using appropriate clinical applications of nuclear medicine techniques.
10	RAF5066	Improving Crops Using Mutation Induction and Biotechnology through a Farmer Participation Approach (AFRA)	To contribute to sustainable food production and improved livelihoods in AFRA Member States through development and dissemination of improved mutation-induced varieties
11	RAF5067	Establishing a Food Safety Network through the Application of Nuclear and Related Technologies	To contribute to sustainable food safety and security in AFRA Member States through application of nuclear and related technologies
12	RAF5068	Improving Livestock Productivity through Strengthened Transboundary Animal Disease Control using Nuclear Technologies to Promote Food Security (AFRA)	To integrate livestock disease control in support of increased livestock productivity to enhance food security.
13	RAF0041	Sharing Best Practices in Preventive Maintenance of Nuclear Equipment (AFRA)	To ensure optimal operational time for all nuclear and related equipment used to support regional programmes.
14	RAF6044	Strengthening Medical Physics in Support of Cancer Management - Phase II (AFRA)	To sustain and improve radiation oncology medical physics services by enhancing the quality and the quantity of medical physicists in Africa.
15	RAF6045	Strengthening Regional Human Resource Building and Treatment Capacity in Radiotherapy (AFRA)	To ensure a human resource capacity that is adequate in skill and numbers for the safe application of quality radiotherapy treatment for cancer patients
16	RAF6047	Using Stable Isotope Techniques to Monitor and Assess the Vitamin A Status of Children Susceptible to Infection (AFRA)	To monitor vitamin A status of children who may be susceptible to infections.
17	RAF6048	Strengthening Medical Physicists' Capacities to Ensure Safety in Medical Imaging, with an Emphasis on Paediatric Imaging Safety (AFRA)	To strengthen medical physics imaging in support of nuclear medicine and radiology.
18	RAF6049	Strengthening and Improving Radiopharmacy Services (AFRA)	To continue establishing good operating standards and quality systems for hospital preparation of radiopharmaceuticals in order to improve patient safety in nuclear medicine practice.
19	RAF7013	Enhancing the Use of Isotope Hydrology in Planning, Management and Development of Water Resources	To improve capacity and self-reliance to integrate isotope hydrology in water resources

		(AFRA) -	planning and management
20	RAF9049	Enhancing and Sustaining the National Regulatory Bodies for Safety (AFRA)	To enhance regulatory infrastructure, sustainability and cooperation among national regulatory bodies
21	RAF9054	Strengthening Radioactive Waste Management (AFRA)	To strengthen radioactive waste management in Africa, with AFRA strengthening the current capabilities through technical assistance in some areas.

List of Regional Projects

SNo.	Project Code	Project Title	Objective(s)
1	RAF2011	Supporting Sustainable Development of Uranium Resources	To ensure balanced development of uranium resources in Africa by applying the good practices in uranium production cycle
2	RAF5064	Supporting Area-Wide Tsetse and Trypanosomosis Management to Improve Livestock Productivity and Enable Sustainable Agriculture and Rural Development	To support of the overall goals of the Africa Union Pan African Tsetse and Trypanosomosis Eradication Campaign (AU-PATTEC)
3	RAF6043	Supporting Comprehensive Cancer Control	Establish national cancer control programmes in participating Member States within the framework of the World Health Organization (WHO) and IAEA
4	RAF6046	Supporting Comprehensive Cancer Control	To continue enabling Member States to introduce, expand and improve their cancer care capacity by integrating radiation medicine into a comprehensive cancer control programme
5	RAF7009	Supporting an Integrated Approach for Marine Pollution Monitoring Using Nuclear Analytical Techniques	The development and implementation of integrated approach for monitoring marine pollution and risk assessment
6	RAF7015	Strengthening Regional Capacities for Marine Risk Assessment Using Nuclear and Related Techniques	To enhance regional capacities for monitoring marine pollution and risk assessment using nuclear and related techniques to address transboundary pollution for sustainable use of marine ecosystem services and enhances socio-economic benefits.
7	RAF7016	Establishing and Improving Air Pollution Monitoring	To contribute to air quality management in Africa by improving monitoring and analytical characterization using NATs
8	RAF9042	Sustaining the Regulatory Infrastructure for the Control of Radiation Sources	To promote and maintain an effective and sustainable regulatory infrastructure for safety of radiation sources in

			accordance with the relevant IAEA safety standards and guidance
9	RAF9043	Strengthening the Transfer of Experience Related to Occupational Radiation Protection of the Nuclear Industry and Other Applications Involving Ionizing Radiation	To strengthen the occupational radiation protection and ensuring a harmonized approach in working with radiation sources.
10	RAF9044	Strengthening Radiation Protection of Patients during Medical Exposure	To enhance capabilities in Member States so that radiological procedures can be performed in a manner that is consistent with the requirements of the International Basic Safety Standards.
11	RAF9045	Strengthening Regulatory Frameworks and National Infrastructures for the Control of Public Exposure and Radioactive Waste Management	To support the further development of national infrastructures for the control of public exposures.
12	RAF9046	Strengthening Effective Compliance Assurance for the Transport of Radioactive Material -Four(4)years duration since 2012	To deliver effective transport compliance assurance regimes based on the twelve elements set out in safety standard TS-G-1.5
13	RAF9051	Strengthening the Regulatory Framework and National Infrastructure for Safe Management of Radioactive Waste and Protection of Public and Environment	To improve waste and radiation safety in Member States in order to mitigate the risks of public exposure.
14	RAF9052	Strengthening and Harmonizing National Capabilities for Response to Radiation Emergencies	To strengthen and harmonize Member State national arrangements for response to radiological and nuclear emergencies and to improve their compliance with the international standards (GS-R-2)
15	RAF9053	Strengthening Technical Capabilities for Patient and Occupational Radiation Protection in Member States	To establish mechanisms to deal with issues of medical radiation protection that are common to Member States in compliance with requirements of the new International Basic Safety Standards (BSS).
16	RAF7012	Using Nuclear Analytical Techniques to Support Harmful Algal Bloom Management in the Context of Climate and Environmental Change: (Phase I)	To increase socioeconomic benefits and revenue generation derived from coastal resources through the application of nuclear techniques for enhanced sustainable management of natural resources.