**GOVERNMENT OF ZAMBIA**

**STATUTORY INSTRUMENT NO. XXX OF 2024**

The Ionising Radiation Protection Act, 2005

(Act No. 16 of 2005)

The Ionising Radiation Protection (General)

(Amendment) Regulations, 2023

In EXERCISE of the powers contained in section *forty-six* of the Ionising Radiation Protection Act, 2005, the following Regulations are hereby made:

1. These Regulations may be cited as the Ionising Radiation Protection (General) (Amendment) regulations, 2023 and shall be read as one with the Ionising Radiation Protection (General) Regulations, 2011, in these regulations referred to as the principal Regulations.

 [Title S.I No xxx of 2023]

1. The principle Regulations are amended by the repeal of the Sixth Schedule and the substitution therefor of the Sixth Schedule set out in the Appendix.

(Regulation 3)

SIXTH SCHEDULE

(Regulation 60)

Prescribed fees

|  |  |  |
| --- | --- | --- |
| **1.0 MEDICAL APPLICATION** |   |   |
| **(i) Radiotherapy per year (Public)** |  **Revised amount in ZMK**  |  **Current Amount in ZMK**  |
| Use or possession of x-ray device for external radiotherapy, per device | 5,250.00 | 5,250.00 |
| Use or possession of radioactive sources for external radiotherapy, per source | 5,250.00 | 5,250.00 |
| Use or possession of high / medium dose rate (HDR/MDR/PDR) radioactive sources in brachytherapy, per source | 5,250.00 | 5,250.00 |
| Use or possession of low dose rate (LDR) radioactive sources in brachytherapy, per source | 5,250.00 | 5,250.00 |
| Use or possession of any other device or sources used for radiotherapy purposes, per source or per device | 5,250.00 | 5,250.00 |
| Use or possession of calibration sources in radiotherapy, per source | 5,250.00 | 5,250.00 |
| Use or possession of low dose rate eye plaques and permanent implants in brachytherapy, per source  | 5,250.00 | 5,250.00 |
| **(ii) Radiotherapy per year (Private)** |  |  |
| Use or possession of x-ray device for external radiotherapy, per device | 5,250.00 | 5,250.00 |
| Use or possession of radioactive sources for external radiotherapy, per source | 5,250.00 | 5,250.00 |
| Use or possession of high / medium dose rate (HDR/MDR/PDR) radioactive sources in brachytherapy, per source | 5,250.00 | 5,250.00 |
| Use or possession of low dose rate (LDR) radioactive sources in brachytherapy, per source | 5,250.00 | 5,250.00 |
| Use or possession of any other device or sources used for radiotherapy purposes, per source or per device | 5,250.00 | 5,250.00 |
| Use or possession of calibration sources in radiotherapy, per source | 5,250.00 | 5,250.00 |
| Use or possession of low dose rate eye plaques and permanent implants in brachytherapy, per source  | 1,500.00 | 5,250.00 |
| **(ii) Diagnostic and Interventional Radiology;** |  -  |   |
|  **(a) Public facility** |  -  |   |
| Use or possession of Computed Tomography Scanner per device | 5,250.00 | 10,500.00 |
| Use or possession of Fluoroscopy per device | 2,250.00 | 2,250.00 |
| Use or possession of C- arm per device | 2,250.00 | 2,250.00 |
| Use or possession of General radiography per device | 1,125.00 | 2,250.00 |
| Use or possession of Extra - oral dental per device | 562.5 | 2,250.00 |
| Use or possession of Mammography per device | 562.5 | 2,250.00 |
| Use or possession of Intra- oral dental per device | 1,125.00 | 2,250.00 |
| Use or possession of Veterinary radiography per device | 1,125.00 | 2,250.00 |
| Use or possession of Bone mineral measurement equipment per device | 1,125.00 | 2,250.00 |
| mobile x-ray machine per device  | 1,125.00 | 2,250.00 |
|
| Mobile van for CT | 2,250.00 | 2,250.00 |
| Mammography machine | 2,250.00 | 2,250.00 |
|
|  Con beam CT  | 2,250.00 | 2,250.00 |
| whole Body x-ray scanner for medical purposes | 2,250.00 | 2,250.00 |
|
|   | 2,250.00 | 2,250.00 |
| Vet CT  |
|   |
| Use or possession of any other emitting devices per device | 1,125.00 | 2,250.00 |
| **(b) Private facility** |  -  |   |
| Use or possession of Computed Tomography Scanner per device | 10,500.00 | 10,500.00 |
| Use or possession of Fluoroscopy per device | 4,500.00 | 4,500.00 |
| Use or possession of C- arm per device | 4,500.00 | 4,500.00 |
| Use or possession of General radiography per device | 4,500.00 | 4,500.00 |
| Use or possession of Extra - oral dental per device | 2,250.00 | 4,500.00 |
| Use or possession of Mammography per device | 1,350.00 | 4,500.00 |
| Use or possession of Intra- oral dental per device | 2,250.00 | 4,500.00 |
| Use or possession of Veterinary radiography per device | 2,250.00 | 4,500.00 |
| Use or possession of Bone mineral measurement equipment per device | 1,350.00 | 4,500.00 |
| Use or possession of any other emitting devices per device | 2,250.00 | 4,500.00 |
| mobile x-ray machine per device  | 4,500.00 | 2,250.00 |
| Mobile van for CT | 4,500.00 | 2,250.00 |
|  Con beam CT  | 2,250.00 | 2,250.00 |
| whole Body x-ray scanner for medical purposes | 7,500.00 | 2,250.00 |
| Vet CT  | 2,250.00 | 2,250.00 |
| **(iii) Nuclear Medicine** |  -  |  -  |
| Use or possession of unsealed sources for diagnostic or therapeutic purposes in nuclear medicine per facility | 4,500.00 | 4,500.00 |
| Use or Possession of GAMMA –CT Scanner \ | 2,250.00 | 2,250.00 |
| (PET-CT Scanner) per Source |
| Use or possession of calibration sources used in nuclear medicine, per source | 4,500.00 | 4,500.00 |
| **(iv) Blood irradiation** |  -  |  -  |
| Use of radioactive materials or radiation emitting devices for blood irradiation per source or per device | 15,000.00 |  -  |
|   |  -  |  -  |
| **02 NON-MEDICAL APPLICATION** |  -  |  -  |
| **(i) Industrial Irradiators** |  -  |  -  |
| Use or possession of radioactive sources for industrial irradiator, per source | 15,000.00 | 7,500.00 |
| **(ii) Industrial Radiography (Non-destructive testing -NDT)** | 0.00 |  -  |
| Use or possession of radioactive materials or radiation emitting devices for industrial radiography, per source | 7,500.00 | 7,500.00 |
| Use or possession of radioactive materials for non-destructive testing (NDT) per device | 7,500.00 | 7,500.00 |
| **(iii) Well-logging** | 0.00 |  -  |
| Use or possession of radioactive materials for well logging, per source | 3,750.00 | 3,750.00 |
| **(iv) Gauging techniques** | 0.00 |  -  |
| Use or possession of radioactive materials for level gauging techniques, per source | 3,750.00 | 3,750.00 |
| Use or possession of radioactive materials for thickness gauging techniques, per source | 3,750.00 | 3,750.00 |
| Use or possession of radioactive materials for moisture or density gauging techniques, per source | 3,750.00 | 3,750.00 |
| **(v) Material Analysis** | 0.00 |  -  |
| Use or possession of radioactive materials or radiation emitting devices sources for material analysis per source | 3,750.00 | 7,500.00 |
| Use or possession of industrial In-process X ray fluorescence (XRF) analyser per device | 3,750.00 | 7,500.00 |
| Use or possession of laboratory and process control X-ray fluorescence (XRF)analysis device per device | 3,750.00 | 7,500.00 |
| Use or possession of hand-held X ray fluorescence (XRF) analysis per device | 3,750.00 | 7,500.00 |
| **(vi) Imaging systems** | 0.00 |  -  |
| Use or possession of cargo x-ray scanner per device | 7,500.00 | 7,500.00 |
| Use or possession of whole-body scanners per device | 210,000.00 | 7,500.00 |
| Use or possession of luggage cargo x-ray scanner per device | 3,750.00 | 7,500.00 |
| **03 LABORATORY SOURCES/TRAINING AND RESEARCH** | 0.00 |  -  |
| Use or possession of calibration radioactive materials for teaching or research purposes per source | 750.00 | 300 |
| Use or Possession of x-ray equipment fluorescence x-ray diffraction and neutron activation analysis by a training or research institution  | 300.00 | 750 |
| Use or Possession of Radiation emitting devices or Radioactive materials by the training institution or research per source | 750.00 | 300 |
| Use or possession of radioactive chemicals for teaching or research purposes | 300.00 | 300 |
| **04 RADIOACTIVE WASTE MANAGEMENT** | 0.00 |  -  |
| Possession of disused radiation sources in an interim storage facility per source | 3,750.00 |  -  |
| Management of final disposal of disused radioactive sources, per facility | 3,750.00 |  -  |
| Storage fees for unused nuclear and radioactive materials | 3,600.00 |  -  |
| **05 IMPORTATION OR EXPORTATION OF SOURCES OR DEVICES** | 0.00 |  -  |
| **(i) External Radiotherapy** | 0.00 |  -  |
| Importation or exportation of radioactive material for external radiotherapy, per source | 7,500.00 | 4,500.00 |
| **(ii) Industrial Irradiators** | 0.00 |  -  |
| Importation or exportation of radioactive material for industrial irradiators, per source | 3,000.00 | 3,000.00 |
| **(iii) Blood irradiation** | 0.00 |  -  |
| Importation or exportation of radioactive material or devices for blood irradiation per source or per device | 3,000.00 | 3,000.00 |
| **(iv)Brachy** | 0.00 |  -  |
| Importation or exportation of high / medium dose rate (HDR, MDR, PDR) radioactive material in brachytherapy, per source | 4,500.00 | 4,500.00 |
| Importation or exportation of Calibration source in brachytherapy, per source | 4,500.00 | 4,500.00 |
| **(v) Industrial Radiography (Non-destructive testing -NDT)** | 0.00 |  -  |
| Importation or exportation of radioactive material for industrial radiography, per source | 3,000.00 | 7,500.00 |
| **(vi) Well-logging** | 0.00 |  -  |
| Importation or exportation of radioactive material for well logging, per source | 3,000.00 |  -  |
| **(vii) Gauging techniques** | 0.00 |  -  |
| Importation or exportation of radioactive material for level gauging techniques, per source | 3,000.00 | 3,000.00 |
| **(viii) Radiotherapy** | 0.00 |  -  |
| Importation or exportation of any other sources used for radiotherapy purposes, per source | 4,500.00 | 4,500.00 |
| **(ix) Material Analysis** | 0.00 |  -  |
| Importation or exportation of radioactive sources for material analysis per source | 3,000.00 | 7,500.00 |
| **(xi) Nuclear Medicine** | 0.00 |  -  |
| Importation or exportation of unsealed sources for diagnostic or therapeutic purposes in nuclear medicine per source | 3,000.00 |  -  |
| Importation or exportation of calibration sources used in nuclear medicine, per source | 4,500.00 |  -  |
| **(xii) Gauging techniques** | 0.00 |  -  |
| Importation or exportation of radioactive sources for thickness gauging techniques, per source | 3,000.00 | 3,000.00 |
| **(xiv) Diagnostic and Interventional Radiology; Public** | 0.00 |  -  |
| Importation or exportation of Computed Tomography Scanner per device | 3,750.00 | 7,500.00 |
| Importation or exportation of Fluoroscopy per device | 1,875.00 | 3,750.00 |
| Importation or exportation of C- arm per device | 937.50 | 3,750.00 |
| Importation or exportation of General radiography per device | 937.50 | 3,750.00 |
| Importation or exportation of Extra - oral dental per device | 937.50 | 3,750.00 |
| Importation or exportation of Mammography per device | 937.50 | 3,750.00 |
| Importation or exportation of Intra- oral dental per device | 937.50 | 3,750.00 |
| Importation or exportation of Veterinary radiography per device | 937.50 | 3,750.00 |
| Importation or exportation of Bone mineral measurement equipment per device | 937.50 | 3,750.00 |
| Importation or exportation of any other emitting devices per device | 937.50 | 3,750.00 |
| **(xiv) Diagnostic and Interventional Radiology; Private** | 0.00 |  -  |
| Importation or exportation of Computed Tomography Scanner per device | 7,500.00 | 7,500.00 |
| Importation or exportation of Fluoroscopy per device | 3,750.00 | 3,750.00 |
| Importation or exportation of C- arm per device | 1,875.00 | 3,750.00 |
| Importation or exportation of General radiography per device | 1,875.00 | 3,750.00 |
| Importation or exportation of Extra - oral dental per device | 1,875.00 | 3,750.00 |
| Importation or exportation of Mammography per device | 1,875.00 | 3,750.00 |
| Importation or exportation of Intra- oral dental per device | 1,875.00 | 3,750.00 |
| Importation or exportation of Veterinary radiography per device | 1,875.00 | 3,750.00 |
| Importation or exportation of Bone mineral measurement equipment per device | 1,875.00 | 3,750.00 |
| Importation or exportation of any other emitting devices per device | 1,875.00 | 3,750.00 |
| **(xvi) Material Analysis** | 0.00 |  -  |
| Importation or exportation of industrial In-process X ray fluorescence (XRF) analyser per device | 1,500.00 | 3,000.00 |
| Importation or exportation of laboratory and process control X-ray fluorescence (XRF)analysis device per device | 1,500.00 | 3,000.00 |
| Importation or exportation of hand-held X ray fluorescence (XRF) analysis per device | 1,500.00 | 3,000.00 |
| **(xvii) Imaging systems** | 0.00 |  -  |
| Importation or exportation of cargo x-ray scanner per device | 3,750.00 | 7,500.00 |
| Importation or exportation of whole-body scanners per device | 90,000.00 | 7,500.00 |
| Importation or exportation of luggage cargo x-ray scanner per device | 3,750.00 | 7,500.00 |
| **(xviii) Laboratory services** | 0.00 |  -  |
| Importation or exportation of radioactive sources for teaching or research purposes per source | 300.00 | 750 |
| Importation or exportation of radioactive chemicals for teaching or research purposes per gram | 300.00 | 750 |
|   | 0.00 |  -  |
| **SITING AND DESIGN OF FACILITIES** | 0.00 |  -  |
| Siting and Designing of Radiotherapy facility | 3,000.00 | 300 |
| Siting and Designing of Industrial Irradiator facility | 3,000.00 | 300 |
| Siting and Designing of Computed Tomography Scanner facility | 3,000.00 | 300 |
| Siting and Designing of Interim Storage of disused radioactive sources facility | 3,000.00 | 300 |
| Siting and Designing of Final Storage of disused radioactive sources facility | 3,000.00 | 300 |
| Siting and Designing of Fluoroscopy facility | 3,000.00 | 300 |
| Siting and Designing of Nuclear Medicine facility | 3,000.00 | 300 |
| Siting and Designing of C- arm facility | 3,000.00 | 300 |
| Siting and Designing of General radiography facility | 3,000.00 | 300 |
| Siting and Designing of Mammography facility | 3,000.00 | 300 |
| Siting and Designing of Extra - oral dental facility | 3,000.00 | 300 |
| Siting and Designing of Intra- oral dental facility | 3,000.00 | 300 |
| Siting and Designing of Any other emitting devices facility | 3,000.00 | 300 |
|   | 0.00 |  -  |
| **ASSESSMENT OR INSPECTION** | 0.00 |  -  |
| **MEDICAL APPLICATION** | 0.00 |  -  |
| **(i) Radiotherapy** | 0.00 |  -  |
| assessment of x-ray device for external radiotherapy, per device per year | 1,500.00 | 1,500.00 |
| assessment of radioactive sources for external radiotherapy, per source | 1,500.00 | 1,500.00 |
| assessment of high / medium dose rate (HDR, MDR,PDR) radioactive sources in brachytherapy, per source | 1,500.00 | 1,500.00 |
| assessment of any other device or sources used for radiotherapy purposes, per source or per device | 1,500.00 | 1,500.00 |
| assessment of low dose rate (LDR) radioactive sources in brachytherapy, per source | 1,500.00 | 1,500.00 |
| assessment of calibration sources in radiotherapy, per source | 1,500.00 | 1,500.00 |
| assessment of low dose rate eye plaques and permanent implants in brachytherapy, per facility | 1,500.00 | 1,500.00 |
| **(ii) Blood irradiation** | 0.00 |  -  |
| Assessment or inspection radioactive sources or devices for blood irradiation per source or per device | 3,000.00 | 1,500.00 |
| **(iii) Nuclear Medicine** | 0.00 |  -  |
| Assessment or inspection of Nuclear medicine facility | 1,500.00 | 1,500.00 |
| Assessment or inspection of calibration sources used in nuclear medicine, per source | 1,500.00 | 1,500.00 |
| **(iii) Diagnostic and Interventional Radiology;** | 0.00 |  -  |
| **Public Facility** | 0.00 |  -  |
| Assessment or inspection of Computed Tomography Scanner per device | 1,500.00 | 1,500.00 |
| Assessment or inspection of Fluoroscopy per device | 1,500.00 | 1,500.00 |
| Assessment or inspection of C- arm per device | 750.00 | 1,500.00 |
| Assessment or inspection of General radiography per device | 750.00 | 750 |
| Assessment or inspection of Mammography per device | 750.00 | 750 |
| Assessment or inspection of Extra - oral dental per device | 750.00 | 750 |
| Assessment or inspection of Intra- oral dental per device | 750.00 | 750 |
| Assessment or inspection of Veterinary radiography per device | 750.00 | 750 |
| Assessment or inspection of Bone mineral measurement equipment per device | 750.00 | 750 |
| Assessment or inspection of any other emitting devices per device | 750.00 | 750 |
| **Private Facility** | 0.00 |  -  |
| Assessment or inspection of Computed Tomography Scanner per device | 1,500.00 | 1,500.00 |
| Assessment or inspection of Fluoroscopy per device | 1,500.00 | 1,500.00 |
| Assessment or inspection of C- arm per device | 1,500.00 | 1,500.00 |
| Assessment or inspection of General radiography per device | 750.00 | 750 |
| Assessment or inspection of Mammography per device | 750.00 | 750 |
| Assessment or inspection of Extra - oral dental per device | 750.00 | 750 |
| Assessment or inspection of Intra- oral dental per device | 750.00 | 750 |
| Assessment or inspection of Veterinary radiography per device | 750.00 | 750 |
| Assessment or inspection of Bone mineral measurement equipment per device | 750.00 | 750 |
| Assessment or inspection of any other emitting devices per device | 750.00 | 750 |
| **NON-MEDICAL APPLICATION** | 0.00 |  -  |
| **(i) Industrial Irradiators** | 0.00 |  -  |
| Assessment or inspection of radioactive sources for industrial irradiator, per source | 3,750.00 | 3,750.00 |
| **(ii) Industrial Radiography (Non-destructive testing -NDT)** | 0.00 |  -  |
| Assessment or inspection of radioactive sources for industrial radiography, per source | 3,750.00 | 3,750.00 |
| Assessment or inspection of x-ray devices for non-destructive testing (NDT) per device | 3,750.00 | 3,750.00 |
| **Well-logging** | 0.00 |  -  |
| Assessment or inspection of radioactive sources for well logging, per source | 1,500.00 |  -  |
| **Material Analysis** | 0.00 |  -  |
| assessment of radioactive sources for material analysis per source | 3,750.00 | 1,500.00 |
| assessment of industrial In-process X ray fluorescence (XRF) analyser per device | 3,750.00 | 1,500.00 |
| assessment of laboratory and process control X-ray fluorescence (XRF)analysis device per device | 3,750.00 | 1,500.00 |
| assessment of hand-held X ray fluorescence (XRF) analysis per device | 3,750.00 | 1,500.00 |
| **Radioactive waste management** | 0.00 |  -  |
| assessment of interim storage of disused radioactive sources, per source | 1,875.00 |  -  |
| assessment of final disposal of disused radioactive sources, per facility | 15,000.00 |  -  |
| **Gauging techniques** | 0.00 |  -  |
| Assessment or inspection of radioactive sources for level gauging techniques, per source | 1,500.00 | 1,500.00 |
| Assessment or inspection of radioactive sources for thickness gauging techniques, per source | 1,500.00 | 1,500.00 |
| Assessment or inspection of radioactive sources for moisture or density gauging techniques, per source | 1,500.00 | 1,500.00 |
| **Laboratory sources** | 0.00 |  -  |
| Assessment or inspection of radioactive sources for teaching or research purposes per source | 300.00 | 300 |
| Assessment or inspection of radioactive chemicals for teaching or research purposes per gram | 300.00 | 300 |
| **Imaging systems** | 0.00 |  -  |
| Assessment or inspection of cargo x-ray scanner per device | 2,250.00 | 1,500.00 |
| Assessment or inspection of whole-body scanners per device | 2,250.00 | 1,500.00 |
| Assessment or inspection of luggage cargo x-ray scanner per device | 1,500.00 | 1,500.00 |
|   | 0.00 |  -  |
| **ENVIRONMENTAL MONITORING FOR RADIOACTIVITY** | 0.00 |  -  |
| **Environmental assessment** | 0.00 |  -  |
| Assessment of radioactivity in air per volume,  | 900.00 | 600 |
| Assessment of radioactivity in air per filter,  | 900.00 | 600 |
| Assessment of radioactivity in soil per kg | 900.00 | 600 |
| Assessment of radioactivity in Building and construction materials per kg | 900.00 | 600 |
| Assessment of Floor stuff per sample | 900.00 | 600 |
| Assessment of Water samples per litre | 600.00 | 600 |
| Assessment of Flora and fauna | 900.00 | 600 |
| Assessment of consumer products per kg/litre | 900.00 | 600 |
| Assessment or Inspection of Industrial Scrap metal per m2 | 600.00 | 600 |
| **Dosimetry Services** | 0.00 |  -  |
| Internal Dosimetry per individual | 1,080.00 |  -  |
| External Dosimetry per year per individual | 540.00 | 540 |
| Purchase or replacement of a lost dosimeter per dosimeter | 1,500.00 | 1,500.00 |
|   | 0.00 |  -  |
| **OTHER SERVICES** | 0.00 |  -  |
| Calibration per source | 900.00 |  -  |
| Leak testing per source | 900.00 |  -  |
| **Training Per Person:** | 0.00 |  -  |
| Medical facility per day | 6,000.00 |  -  |
| Non-medical per day  | 12,000.00 |  -  |
| **Consultancy services per day:** | 0.00 |  -  |
| (i) Public | 6,000.00 | 6,000.00 |
| (i) Private | 9,000.00 | 9,000.00 |
| **TRANSPORTATION OF RADIOACTIVE MATERIALS** | 0.00 |  -  |
| Transportation of category I, II, III radioactive sources within Zambia or transit through Zambia, per source | 3,750.00 |  -  |
| Transportation of category IV radioactive sources within Zambia or transit through Zambia, per source | 3,000.00 |  -  |
| Transportation of radioactive ores per tonnes | 3,750.00 |  -  |
| Transportation of nuclear materials through and within the country per activity | 75,000.00 |  -  |
|   | 0.00 |  -  |
| **Monitoring for Illicit trafficking** | 0.00 |  -  |
| Monitoring of items for illicit trafficking of Nuclear and Radioactive Materials | 100.00 | 50 |
| Monitoring for Radiation Contamination | 100.00 | 50 |
| **PROSPECTING, MINING, MILLING AND PROCESSING OF RADIOACTIVE ORES** | 0.00 |  -  |
| Mining, milling and processing of radioactive ores | 75,000.00 |  -  |
| Prospecting of radioactive ores | 75,000.00 |  -  |
| Mining minerals with Elevated levels of Radioactive Ores | 75,000.00 |  -  |
| **OTHER ACTIVITIES:** | 0.00 |  -  |
| Transfer of license | 3,750.00 |  -  |