

**CERTIFICATE NO. ZA/SAHPRA 0004/B(U)-96**  
**PACKAGE DESIGN APPROVAL**  
**Exertus ITS 81**

This is to certify that the South African Health Products Regulatory Authority (SAHPRA), being, for the purpose of the International Atomic Energy Agency (IAEA), the Competent Authority in the Republic of South Africa, in respect of the transport of radioactive material, has certified the package design, as described herein, as having met the regulatory requirements for Type B(U) packages as described in the IAEA Safety Standards Series No. SSR-6 (Rev.1), Regulations for the Safe Transport of Radioactive Material, 2018 Edition, Vienna, 2018.

**1. Certificate**

Effective Date: 1 January 2025

Expiry Date: 31 December 2029

**2. Competent Authority**

SAHPRA

**3. This certificate is issued on the basis of the application submitted by:**

Gammatec NDT Supplies SOC Ltd  
Vision 21 Industrial Park  
Steel Road, Peacehaven  
Vereeniging 1939  
Republic of South Africa

#### 4. Title and Identification of Reports and Drawings

##### 4.1. Reports

The safety case for the package design comprises of the following reports-

Document Number	Rev	Date	Title/Description
GEROTEK 18380	1	10 October 2024	Performance and design evaluation – Industrial Radiography Container
7.1.19.0	0	October 2024	EXERTUS ITS 135 & ITS 81 PACKAGE DESIGN SAFETY REPORT

##### 4.2 Drawings

The package is fabricated in accordance with the following drawings-

**Tabel 1:**

Exertus ITS Master Drawing List	
Drawing No.	Item Description
<b>CAP-ASC0002 ITS135/81</b>	<b>Rear Protective Cap - Assembled</b>
CAP-SC0334	ITS135/81 Rear Protective Cap - Machined
CHAIN-SC0343 (OFF THE SHELF)	ITS 135/81 Welded chain 165mm long 2 x 12 mm Internal (Welded) SS - 13 Links
SEAL-SS0442 (OFF THE SHELF)	ITS 135/81 Rear Protective Cap Silicone O-ring (Ø4 x 274mm)
SCREW-SS0435 (OFF THE SHELF)	M3 X 8 Cheese Slot Screw - SS
<b>FLANGE-ASF0010 ITS135/81</b>	<b>Intermediate Flange - Assembled</b>
PLATE-ASP0007	ITS 135/81 Slider Plate - Assembled
DISC-ASD0001	ITS 135/81 Locking Disc - Assembled
FLANGE-SF0128	ITS135/81 Intermediate Flange - Machined
BOLT-SB0452	ITS135/81 Intermediate Flange Locking Bolt
SPRING-SS0446	ITS135/81 Intermediate Flange Locking Bolt Spring
PIN-SP0233	ITS135/81 Intermediate Flange Locking Bolt Pressure Pin
SCREW-SS0436 (OFF THE SHELF)	M2 X 6 Set Screw - A2 SS
SCREW-SS0453 (OFF THE SHELF)	Hex Soc. HD Cap Screw - M5 x 10 A2/A4 DIN 912
PIN-SP0234	ITS135/81 Intermediate Flange Spring Guide Pin
SPRING-SS0447	ITS135/81 Intermediate Flange Slider Plate Spring
LATCH-SL0095	ITS135/81 Intermediate Flange Snap-in Latch
AXLE-SA0066	ITS135/81 Intermediate Flange Snap-in Latch Axle

SPRING-SS0464	ITS135/81 Snap-in Latch Spring
<b>CAP-ASC0003 ITS135/81</b>	<b>Rear Cap - Assembled</b>
CAP-SC0335	ITS135/81 Rear Cap - Machined
LOCK-SL0023 (OFF THE SHELF)	Dual 120 /TSI Lock 8.675.178
KEY-NCK0008	Exertus Security Lock Key
BOLT-SB0453	ITS135/81 Rear Cap Attachment Bolt 1
BOLT-SB0454	ITS135/81 Rear Cap Attachment Bolt 2
RING-SR0106	ITS135/81 Rear Cap Guide Ring
CONNECTOR-SC0339	ITS135/81 Rear Cap Connector
PIN-SP0235	ITS135/81 Rear Cap Unlocking Pin
SPRING-SS0448	ITS135/81 Rear Cap Unlocking Pin Spring
SCREW-SS0437 (OFF THE SHELF)	CSK Star Point Screw M3 x 14 A2 SS
Screw-SS0071 (OFF THE SHELF)	Dual 120 CSK Star Point Screw (M3 x 6 SS)
Pin-SP0236 (OFF THE SHELF)	Dowel Pin (2.5 x 6 SS)
Washer-SW0047 (OFF THE SHELF)	ITS135/81 Rear Cap Unlocking Pin Retaining Washer (Ø2,3 C67 DIN6799)
<b>BAR-ASB0002 ITS135/81</b>	<b>Locking Bar- Assembly</b>
SCREW-SS0434	ITS135/81 Locking Bar Adjusting Screw
BUSH-SB0455	ITS135/81 Locking Bar Bushing
BAR-SB0449	ITS135/81 Locking Bar
SPRING-SS0449	ITS135/81 Locking Bar Pressure Spring
PIN-SP0237 (OFF THE SHELF)	Ø2mm x 10 long Slotted Spring Pin SS304

Washer-SW0048 (OFF THE SHELF)	Washer -2.3 ID A2 SS DIN125
<b>SHIELD-ASS0008 ITS135</b>	<b>Radiation Protection Unit - Assembly</b>
SHIELD-ASS0009	ITS135 Depleted Uranium Shielding - Assembled
SLEEVE-SS0443	ITS135/81 Sliding Sleeve
FLANGE-SF0129	ITS135/81 Radiation Protection Unit Centre Flange
FLANGE-SF0130	ITS135/81 Radiation Protection Unit Rear Flange
BAR-SB0450	ITS135 Radiation Protection Unit Towing Bar 1
BAR-SB0459	ITS135/81 Towing Bar II
SCREW-SS0438 (OFF THE SHELF)	Hex. Socket Head Cap Screw, M6 x 14 - A2/A4 SS
SCREW-SS0439 (OFF THE SHELF)	Flat Head CSK Screw, M6 x 14 - A2/A4 SS
<b>SHIELD-ASS0011 ITS81</b>	<b>Radiation Protection Unit - Assembly</b>
SHIELD-ASS0012	ITS81 Depleted Uranium Shielding - Assembled
SLEEVE-SS0443	ITS135/81 Sliding Sleeve
FLANGE-SF0129	ITS135/81 Radiation Protection Unit Centre Flange
FLANGE-SF0130	ITS135/81 Radiation Protection Unit Rear Flange
BAR-SB0450	ITS135 Radiation Protection Unit Towing Bar 1
BAR-SB0459	ITS135/81 Towing Bar II
SCREW-SS0438 (OFF THE SHELF)	Hex. Socket Head Cap Screw, M6 x 14 - A2/A4 SS

SCREW-SS0439 (OFF THE SHELF)	Flat Head CSK Screw, M6 x 14 - A2/A4 SS
<b>FLANGE-ASF0011 ITS135/81</b>	<b>Front Flange - Assembled</b>
FLANGE-SF0131	ITS135/81 Front Flange
SLEEVE-SS0444	ITS135/81 Front Flange Guide Sleeve
LEVER-SL0096	ITS135/81 Front Flange Tipping Lever
DISC-SD0016	ITS135/81 Front Flange Shielding Disc
Screw-SS0440 (OFF THE SHELF)	CSK Star Point Screw (M3 x 8 SS)
PIN-SP0237 (OFF THE SHELF)	Ø2mm x 10 long Slotted Spring Pin SS304
<b>HANDLE-ASH0017 ITS135/81</b>	<b>Handle Tube - Assembled</b>
HANDLE-SH0123	ITS135/81 Handle Tube - Powder Coated (Blue RAL 5013)
PLUG-SP0240	ITS135/81 Handle and Base Tube Threaded Insert
<b>TUBE-AST0002 ITS135/81</b>	<b>Base Tube - Assembled</b>
HANDLE-SH0123	ITS135/81 Base Tube - Sandblasted (Fine)
PLUG-SP0240	ITS135/81 Handle and Base Tube Threaded Insert
<b>CAP-ASC0008 ITS135/81</b>	<b>Front Cap - Assembled</b>
CAP-SC0340	ITS135/81 Front Cap - machined
CONNECTOR-SC0344	ITS135/81 Front Connector
PIN-SP0243	ITS135/81 Pressure Pin
PLATE-SP0244	ITS135/81 Plate - 3 year examination
SCREW-SS0450 (OFF THE SHELF)	Pan Head Screw - M4 x 8 A2/A4 SS
<b>CAP-ASC0009 ITS135/81</b>	<b>Front Protective Cap - Assembled</b>
CAP-SC0341	ITS135/81 Front Protective Cap
CHAIN-SC0343 (OFF THE SHELF)	ITS 135/81 Welded chain 165mm long 2 x 12 mm Internal (Welded) SS - 13 Links
SEAL-SS0452 (OFF THE SHELF)	ITS 135/81 Front Protective Cap Rubber O-ring (Ø2,5 x 15mm)
SCREW-SS0450 (OFF THE SHELF)	Pan Head Screw - M4 x 8 A2/A4 SS
WASHER-SW0049 (OFF THE SHELF)	M4 Flat Washer - A2/A4 SS
<b>SHELL-ASS0010 ITS135/81</b>	<b>Rear Handle Shell - Assembled</b>
LEVER-ASL0010	ITS135/81 Release Lever - Assembled
PLATE-ASP0010	ITS135/81 Rear Handle Shell Window - Assembled
SHELL-SH0465	ITS135/81 Rear Handle Shell
BUSH-SB0457	ITS135/81 Release Lever Flange Bush
<b>Various Components required for Final Assembly</b>	
Tube-ST0103	ITS135/81 Radiation Protection Tube
RING-SR0109	ITS135/81 Radiation Protection Tube Threaded Ring
DISC-SD0018	ITS135/81 Radiation Protection Tube Disc
TUBE-ST0104	ITS135/81 Radiation Protection Spiral Tube
PLATE-SP0247	ITS135 Nameplate
PLATE-SP0248	ITS81 Nameplate
SLEEVE-SS0467	ITS135/81 Shielding Unit Sleeve
SCREW-SS0454 (OFF THE SHELF)	Hex Soc. HD Cap Screw - M8 x 20 A2/A4 DIN 912

SCREW-SS0455 (OFF THE SHELF)	Hex Soc. HD Cap Screw - M8 x 25 A2/A4 DIN 912
SCREW-SS0458 (OFF THE SHELF)	Pan HD Screw - M3 x 8 A2/A4 DIN 7985
SCREW-SS0459 (OFF THE SHELF)	Pan HD Screw - M3 x 6 A2/A4 DIN 7985
SCREW-SS0460 (OFF THE SHELF)	Pan HD Screw - M4 x 20 A2/A4 DIN 7985
SHELL-SS0466	ITS135/81 Front Handle Shell
SCREW-SS0456 (OFF THE SHELF)	Set Screw - M2 x 6 A2/A4 DIN 913
<b>PIGTAIL-NCP0458 ITS135/81</b>	<b>Link Type Pigtail</b>
LINK-SL0036	ITS Series Pigtail Link Tungsten 9mm long
LINK-SL0039	TSI Series Pigtail Link S/Steel 16mm
LINK-SL0037	TSI Series Pigtail Link Tungsten 22.95mm long
LINK-SL0040	TSI Series Pigtail Slider Link
CAPSULE-SC0108	TSI Series Pigtail Source Capsule - Engraved
PIN-SP0037 (OFF THE SHELF)	Coil Spring Pin S/S(CLDP 2.5 X 6.4 HDK-203471) Dual/TSI/Ti Pigtail
RECEPTOR-SR0027	TSI Series Pigtail B/point Receptor - Engraved & Welded
<b>Projector ITS 135/81</b>	
PROJ-CP0025	Exertus ITS 135 Isotope Projector
PROJ-CP0030	Exertus ITS 81 Isotope Projector

<b>Exertus ITS Master Drawing List</b>	
<b>Drawing No.</b>	<b>Item Description</b>
<b>CAP-ASC0002 ITS135/81</b>	<b>Rear Protective Cap - Assembled</b>
CAP-SC0334	ITS135/81 Rear Protective Cap - Machined
CHAIN-SC0343 (OFF THE SHELF)	ITS 135/81 Welded chain 165mm long 2 x 12 mm Internal (Welded) SS - 13 Links
SEAL-SS0442 (OFF THE SHELF)	ITS 135/81 Rear Protective Cap Silicone O-ring (Ø4 x 274mm)
SCREW-SS0435 (OFF THE SHELF)	M3 X 8 Cheese Slot Screw - SS
<b>FLANGE-ASF0010 ITS135/81</b>	<b>Intermediate Flange - Assembled</b>
PLATE-ASP0007	ITS 135/81 Slider Plate - Assembled
DISC-ASD0001	ITS 135/81 Locking Disc - Assembled
FLANGE-SF0128	ITS135/81 Intermediate Flange - Machined
BOLT-SB0452	ITS135/81 Intermediate Flange Locking Bolt
SPRING-SS0446	ITS135/81 Intermediate Flange Locking Bolt Spring
PIN-SP0233	ITS135/81 Intermediate Flange Locking Bolt Pressure Pin
SCREW-SS0436 (OFF THE SHELF)	M2 X 6 Set Screw - A2 SS
SCREW-SS0453 (OFF THE SHELF)	Hex Soc. HD Cap Screw - M5 x 10 A2/A4 DIN 912
PIN-SP0234	ITS135/81 Intermediate Flange Spring Guide Pin
SPRING-SS0447	ITS135/81 Intermediate Flange Slider Plate Spring
LATCH-SL0095	ITS135/81 Intermediate Flange Snap-in Latch
AXLE-SA0066	ITS135/81 Intermediate Flange Snap-in Latch Axle

SPRING-SS0464	ITS135/81 Snap-in Latch Spring
<b>CAP-ASC0003 ITS135/81</b>	<b>Rear Cap - Assembled</b>
CAP-SC0335	ITS135/81 Rear Cap - Machined
LOCK-SL0023 (OFF THE SHELF)	Dual 120 /TSI Lock 8.675.178
KEY-NCK0008	Exertus Security Lock Key
BOLT-SB0453	ITS135/81 Rear Cap Attachment Bolt 1
BOLT-SB0454	ITS135/81 Rear Cap Attachment Bolt 2
RING-SR0106	ITS135/81 Rear Cap Guide Ring
CONNECTOR-SC0339	ITS135/81 Rear Cap Connector
PIN-SP0235	ITS135/81 Rear Cap Unlocking Pin
SPRING-SS0448	ITS135/81 Rear Cap Unlocking Pin Spring
SCREW-SS0437 (OFF THE SHELF)	CSK Star Point Screw M3 x 14 A2 SS
Screw-SS0071 (OFF THE SHELF)	Dual 120 CSK Star Point Screw (M3 x 6 SS)
Pin-SP0236 (OFF THE SHELF)	Dowel Pin (2.5 x 6 SS)
Washer-SW0047 (OFF THE SHELF)	ITS135/81 Rear Cap Unlocking Pin Retaining Washer (Ø2,3 C67 DIN6799)
<b>BAR-ASB0002 ITS135/81</b>	<b>Locking Bar- Assembly</b>
SCREW-SS0434	ITS135/81 Locking Bar Adjusting Screw
BUSH-SB0455	ITS135/81 Locking Bar Bushing
BAR-SB0449	ITS135/81 Locking Bar
SPRING-SS0449	ITS135/81 Locking Bar Pressure Spring
PIN-SP0237 (OFF THE SHELF)	Ø2mm x 10 long Slotted Spring Pin SS304

Washer-SW0048 (OFF THE SHELF)	Washer -2.3 ID A2 SS DIN125
<b>SHIELD-ASS0008 ITS135</b>	<b>Radiation Protection Unit - Assembly</b>
SHIELD-ASS0009	ITS135 Depleted Uranium Shielding - Assembled
SLEEVE-SS0443	ITS135/81 Sliding Sleeve
FLANGE-SF0129	ITS135/81 Radiation Protection Unit Centre Flange
FLANGE-SF0130	ITS135/81 Radiation Protection Unit Rear Flange
BAR-SB0450	ITS135 Radiation Protection Unit Towing Bar 1
BAR-SB0459	ITS135/81 Towing Bar II
SCREW-SS0438 (OFF THE SHELF)	Hex. Socket Head Cap Screw, M6 x 14 - A2/A4 SS
SCREW-SS0439 (OFF THE SHELF)	Flat Head CSK Screw, M6 x 14 - A2/A4 SS
<b>SHIELD-ASS0011 ITS81</b>	<b>Radiation Protection Unit - Assembly</b>
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<b>FLANGE-ASF0011 ITS135/81</b>	<b>Front Flange - Assembled</b>
FLANGE-SF0131	ITS135/81 Front Flange
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DISC-SD0016	ITS135/81 Front Flange Shielding Disc
Screw-SS0440 (OFF THE SHELF)	CSK Star Point Screw (M3 x 8 SS)
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PLUG-SP0240	ITS135/81 Handle and Base Tube Threaded Insert
<b>TUBE-AST0002 ITS135/81</b>	<b>Base Tube - Assembled</b>
HANDLE-SH0123	ITS135/81 Base Tube - Sandblasted (Fine)
PLUG-SP0240	ITS135/81 Handle and Base Tube Threaded Insert
<b>CAP-ASC0008 ITS135/81</b>	<b>Front Cap - Assembled</b>
CAP-SC0340	ITS135/81 Front Cap - machined
CONNECTOR-SC0344	ITS135/81 Front Connector
PIN-SP0243	ITS135/81 Pressure Pin
PLATE-SP0244	ITS135/81 Plate - 3 year examination
SCREW-SS0450 (OFF THE SHELF)	Pan Head Screw - M4 x 8 A2/A4 SS
<b>CAP-ASC0009 ITS135/81</b>	<b>Front Protective Cap - Assembled</b>
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SEAL-SS0452 (OFF THE SHELF)	ITS 135/81 Front Protective Cap Rubber O-ring (Ø2,5 x 15mm)
SCREW-SS0450 (OFF THE SHELF)	Pan Head Screw - M4 x 8 A2/A4 SS
WASHER-SW0049 (OFF THE SHELF)	M4 Flat Washer - A2/A4 SS
<b>SHELL-ASS0010 ITS135/81</b>	<b>Rear Handle Shell - Assembled</b>
LEVER-ASL0010	ITS135/81 Release Lever - Assembled
PLATE-ASP0010	ITS135/81 Rear Handle Shell Window - Assembled
SHELL-SH0465	ITS135/81 Rear Handle Shell
BUSH-SB0457	ITS135/81 Release Lever Flange Bush
<b>Various Components required for Final Assembly</b>	
Tube-ST0103	ITS135/81 Radiation Protection Tube
RING-SR0109	ITS135/81 Radiation Protection Tube Threaded Ring
DISC-SD0018	ITS135/81 Radiation Protection Tube Disc
TUBE-ST0104	ITS135/81 Radiation Protection Spiral Tube
PLATE-SP0247	ITS135 Nameplate
PLATE-SP0248	ITS81 Nameplate
SLEEVE-SS0467	ITS135/81 Shielding Unit Sleeve
SCREW-SS0454 (OFF THE SHELF)	Hex Soc. HD Cap Screw - M8 x 20 A2/A4 DIN 912

SCREW-SS0455 (OFF THE SHELF)	Hex Soc. HD Cap Screw - M8 x 25 A2/A4 DIN 912
SCREW-SS0458 (OFF THE SHELF)	Pan HD Screw - M3 x 8 A2/A4 DIN 7985
SCREW-SS0459 (OFF THE SHELF)	Pan HD Screw - M3 x 6 A2/A4 DIN 7985
SCREW-SS0460 (OFF THE SHELF)	Pan HD Screw - M4 x 20 A2/A4 DIN 7985
SHELL-SS0466	ITS135/81 Front Handle Shell
SCREW-SS0456 (OFF THE SHELF)	Set Screw - M2 x 6 A2/A4 DIN 913
<b>PIGTAIL-NCP0458 ITS135/81</b>	<b>Link Type Pigtail</b>
LINK-SL0036	ITS Series Pigtail Link Tungsten 9mm long
LINK-SL0039	TSI Series Pigtail Link S/Steel 16mm
LINK-SL0037	TSI Series Pigtail Link Tungsten 22.95mm long
LINK-SL0040	TSI Series Pigtail Slider Link
CAPSULE-SC0108	TSI Series Pigtail Source Capsule - Engraved
PIN-SP0037 (OFF THE SHELF)	Coil Spring Pin S/S(CLDP 2.5 X 6.4 HDK-203471) Dual/TSI/Ti Pigtail
RECEPTOR-SR0027	TSI Series Pigtail B/point Receptor - Engraved & Welded
<b>Projector ITS 135/81</b>	
PROJ-CP0025	Exertus ITS 135 Isotope Projector
PROJ-CP0030	Exertus ITS 81 Isotope Projector

## 5. Package Identification

The package is identified by the model number:  
ZA/SAHPRA 0004/B(U)-96

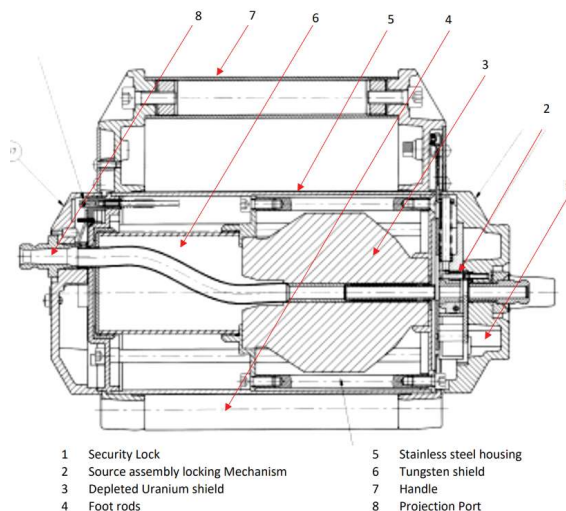
## 6. Package Description

The Exertus ITS 81 Packages will be used as Exposure Containers for Industrial Radiography and as Transport Packages for Special Form sealed sources used in Industrial Radiography.

The Exertus ITS 81 exposure containers enable an operator to remotely expose radiographic film. The exposure containers are operated via a remote control and a projection sheath to guide the source to a desired radiography position. The Exertus ITS 81 exposure containers are of stainless steel structure that provides radiation shielding for the sealed source with depleted uranium and tungsten components. The sealed source is contained within a replaceable source holder capsule on a link-type source assembly, which travels from its safe position inside the exposure container to its radiography position and back and is secured by an Automatic Securing Mechanism. The Exertus ITS 81 exposure containers include a keyed security lock and interlocks on the remote control coupling and projection ports to prevent the accidental and/or unauthorised exposure of the radiation source.

The basic design is reflected in Figure 1 and Tabel 2.

Figure 1.



**Table 2**  
**Dimensions and mass of the ITS 81 and ITS 135**

<b>Feature</b>	<b>ITS 81</b>	<b>ITS 135</b>
Height (mm)	222	222
Width (mm)	130	130
Length (mm)	350	350
Total weight (kg)	21.5	23
DU weight (kg)	11.0	13
DU diam. (mm)	98	105
DU length (mm)	114.5	114.5
DU thickness (mm)	43	46.5
W-front shielding diam. (mm)	62	62
W-front shielding length (mm)	86.5	86.5

## 7. Authorised Contents

The package contents will not exceed either:

### ITS 81

Radionuclide	Activity TBq	Physical State	Chemical Form	Use
Ir-192	3	Solid	Iridium metal	Radiography
Se-75	7.4	Solid	Selenium alloy	Radiography

## 8. Conditions for the use of the packaging

- 8.1 The maintenance required on this package is described in the document WI/GSA/LOG-7.1.23.0 Exertus ITS 81 Maintenance Manual or any future revisions thereof, as accepted by the competent authority.

## 9. Notification

- 9.1 The owner of a package, manufactured in accordance to the design covered by this certificate, shall forward the package serial number to the competent authority.
- 9.2 Should the package be disposed of or change ownership, then this change must be notified to the competent authority.
- 9.3 Accordingly, the party relinquishing ownership of a package shall forward the name of the new owner to the competent authority.
- 9.4 The consignor of a package compliant with the design covered by this certificate shall check that the package bears a Model Number as identified in "5" above, as well as a serial number.

## **Mode(s)**

- 10.1 The package described by this certificate may be transported by air, land, sea or inland waterways.

## **10. Specifications of quality assurance programme.**

- 11.1 Quality assurance programmes as described in the Gammatec Quality Manual, PO/GSA/CORP-010.00.000.000 and its supporting documentation must be applied to the fabrication, testing and usage of the package.
- 11.2 All packages must be periodically inspected and as necessary, repaired and maintained in good condition so that they continue to comply with the relevant requirements and specifications, even after repeated use.

## **11. General Conditions**

- 12.1 Each user of the transport package must have in their possession a copy of this certificate and all documents necessary to properly prepare the package for transportation.
- 12.2 This certificate does not relieve the consignor or carrier from the compliance with any requirements of the government of any country through or into which the package will be transported.

## **12. Marking and Labels**

The packing must bear the marking ZA/SAHPRA 0004/B(U)-96 in addition to any other required markings and labelling.

### 13.Relevant Regulations

IAEA Safety Standards Series No. SSR-6, Regulations for the Safe Transport of Radioactive Material, 1018 Edition, Vienna 2018.

### 14.Expiry Date

This certificate expires at midnight on 31 Dec 2029



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Dr. Boitumelo Semete  
Chef Executive Officer  
SAHPRA

29 January 2025

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Date