* + 1. **Send to: e-mail:** [**serviciostecnicos@ciemat.es**](mailto:serviciostecnicos@ciemat.es)

**You order number (if it exists)**

|  |
| --- |
|  |

**CONTACT PERSON**

|  |
| --- |
| Name:  Phone:       Email: |

**Fill in the following section if you are requesting a non-tariffed service or you do not know if the service is subject to any tariff** ([Link official publication](https://www.ciemat.es/recursos/doc/Ciemat/tarifas_vigentes_st.pdf))**:**

**REPRESENTATIVE OF THE ENTITY\***

|  |
| --- |
| Name:  Power of attorney:       Date:       Notary public (name)  Position: |

**\***Authorised person to sign the service provision contract

**BILLING INFORMATION**

|  |
| --- |
| **Customer invoice address:**  Name:  Address:  VAT Reg. No.: |
| **Email address to send the invoice:**  Contact person:  Email:      Phone: |

**DATA FOR THE ISSUANCE AND SHIPPING OF CERTIFICATES**

|  |
| --- |
| **Data of the entity in case of being different from tax address:**  Name:  Address: |
| **Email address to send the official certificates:**  Attn:  Email (It is essential. The certificates are signed digitally): |

**ADDRESS TO SEND THE CALIBRATED EQUIPMENT OR RADIOACTIVE SOURCES**

|  |
| --- |
| Attn:  Phone:  Email:  Address:  **(**This address will be written on the equipment shipping package and must match the one the carrier has) |

* For more information on Rates, Technical Services, Traceability to the IS and personnel who will be in charge of your service, access the link <http://rdgroups.ciemat.es/web/lmri/servicios-tecnicos>
* Send this application once completed to [serviciostecnicos@ciemat.es](mailto:serviciostecnicos@ciemat.es)
* The equipment will be sent to CIEMAT "Ionizing Radiation Metrology Laboratory" (General Warehouse) will be carried out after acceptance of the official budget.

Note: To add more than 1 team per table, go to the right, at the end of the row to be filled in (outside the table), and press "enter".

**CALIBRATION OF GAMMA RADIATION (PROTECTION LEVELS)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **CALIBRATION OF DOSE / DOSE RATE MONITORS**  Only for monitors with scales graduated in submultiples of Sv/h, Gy/h, R/h / Sv, Gy, R. | | | | | | Manufacturer | Model / Type | Serial number | ISO radiation quality | | | 137Cs (Cs) | 60Co (Co) | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **IRRADIATION OF DOSIMETERS** | | | | | | | | | | Number of dosimeters | Manufacturer / Model / Type | Calidad ISO | | Dose equivalent | | | | Required dose value  (mSv) | | 137Cs (Cs) | 60Co (Co) | Personal | | | Ambient | | *H*p(10) | *H*p(0,07) | *H*p(3) | *H*\*(10) | |  |  |  |  |  |  |  |  |  | |

Note: Equipment calibrations and dose assignments will be performed on 137Cs (ISO-Cs) beams, unless the use of 60Co (ISO-Co) beams is exceptionally requested. In the case of personal dose equivalent, specify the direction of incidence of radiation.

**BETA RADIATION**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **CALIBRATION OF MONITORS AT PROTECTION LEVELS**  Only for monitors with scales graduated in submultiples of Sv/h, Gy/h, R/h / Sv, Gy, R. | | | | | | | Manufacturer | Model / Type | Serial number | Radioactive source | | | | 85Kr | 90Sr/90Y | 147Pm | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **IRRADIATION OF DOSIMETERS** | | | | | | | | | Number of dosimeters | Manufacturer / Model / Type | Radioactive source | | | Dose equivalent | | Required dose value  (mSv) | | 85Kr | 90Sr/90Y | 147Pm | Personal  *H*p(0,07) | Directional  *H’*(0,07) | |  |  |  |  |  | Elija un elemento. | Elija un elemento. |  | |

**CONTAMINATION MONITORS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **CALIBRATION OF MONITORS AT PROTECTION LEVELS** | | | | | | Manufacturer | Model / Type | Serial number | Scale (example. cps) | Radionuclides | |  |  |  |  |  | |

Note: To add more than 1 team per table, go to the right, at the end of the row to be filled in (outside the table), and press "enter".

**X RAYS RADIATION**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **CALIBRATION OF MONITORS AT PROTECTION LEVELS**  Only for monitors with scales graduated in submultiples of Sv/h, Gy/h, R/h / Sv, Gy, R. | | | | | | Manufacturer | Model / Type | Serial number | Radiation Qualities  L, N, W, RQR | Verification of measuring peak voltage | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **IRRADIATION OF DOSIMETERS** | | | | | | | | | | Manufacturer | Model / Type | Radiation Qualities  L, N, W | Dose equivalent | | | | | Required dose value  (mSv) | | Personal | | Ambient | Directional | | | Depth | Angle of incidence | Depth | Angle of incidence | |  |  |  | Elija un elemento. | Elija un elemento. |  | Elija un elemento. | Elija un elemento. |  | |

**NEUTRONIC RADIATION**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **CALIBRATION OF NEUTRONIC MONITORS OF AREA** | | | | | | Manufacturer | Model / Type | Serial number | Neutronic source | | | 252Cf | 241Am-Be | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **CALIBRATION OR IRRADIATION OF NEUTORNIC PERSONAL DOSIMETERS** | | | | | | Manufacturer | Model / Type | Serial number | Neutronic source | | | 252Cf | 241Am-Be | |  |  |  |  |  | |

Note: calibrations or dose assignments to neutron personal dosimeters are made on both neutron sources for dose values of 100 µSv, 1mSv and 10 mSv for 252Cf and 100 µSv for 241Am-Be, unless other values of exceptional shape.

**ACTIVIMETERS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **CALIBRATION OF NUCLEAR MEDICINE EQUIPMENTS** | | | | | | | | | Manufacturer | Model / Type | Serial number | Nuclides | | | Type of container | | | 99mTc | 18F | Others | Type | Volume | |  |  |  |  |  |  | Elija un elemento. |  | |

**GAMMA RADIATION AT PROTECTION LEVELS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **CALIBRATION OF EQUIPMENT FOR DOSIMETRY IN THERAPY LEVELS. (60Co)** | | | | | | | | | MONITOR | | | ELECTROMETER | | | Coeficient of calibration | | | Manufacturer | Model / Type | Serial number | Manufacturer | Model / Type | Serial number |  |  | |  |  |  |  |  |  |  |  | |

Note: To add more than 1 team per table, go to the right, at the end of the row to be filled in (outside the table), and press "enter".

**REFERENCE RADIOACTIVE SOURCES**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **ALFA / BETA / GAMMA** | | | | | | | Radionuclides | Type of Source | Solid | | liquid | | | Activity (Bq) | Dimensions | Concentration Activity (Bq/mg) | Volume/Weight | |  | Elija un elemento. |  |  |  |  | |

**ADDITIONAL OBSERVATIONS\*:**

\* If the technical service is tariffed, please indicate the tariff code ([Link official publication](https://www.ciemat.es/recursos/doc/Ciemat/tarifas_vigentes_st.pdf))

**Signature with an electronic certificate issued from a Certificate Authority**

**NOTES TO KEEP IN MIND WHEN FILLING OUT THE APPLICATION:**

* Delete the tables that you will not use and add the rows you need in your table and the appropriate comments below
* Please do not omit the requested information and you are asked to fill in all the fields of the requested service.
* For more information on Rates, Technical Services, Traceability to the IS and personnel who will be in charge of your service, access the link <http://rdgroups.ciemat.es/web/lmri/servicios-tecnicos>
* This application must be signed by an electronic-certificate signature issued from a Certificate Authority (RD 203/2021, March 30)
* Send this application once completed to [serviciostecnicos@ciemat.es](mailto:serviciostecnicos@ciemat.es)