#### TECHNICAL COMPLIANCE MATRIX

**RFQ 625793-AY – Alpha/Beta Counting System**

Please complete Technical Compliance Matrix, any proposed deviations shall be clearly defined and justified.

| **Ref.** | **Specification Requirements** | **Compliance Yes/No** | **Bidder’s comments** |
| --- | --- | --- | --- |
| **1** | **Scope** |  |  |
|  | The System shall include:  o One (1) alpha/ beta counter;  o One (1) Communication software;  o One (1) Computer for data collection (download and store) with necessary cables;  o One (1) 90Sr+90Y calibration source. | Yes  No |  |
| **3** | **Requirements** |  |  |
| 3.1 | Functional, Performance and Technical Requirements  The System shall meet the following equipment and functionality:  The System shall:  3.1.1. Have alpha and beta detection capacity;  3.1.2. The detector of the System shall be silicon-based semiconductor detector;  3.1.3. Detector area shall be at least 20 cm2;  3.1.4. Have active background protection with protective detector included in the anti-coincidence circuit;  3.1.5. Have passive background protection with lead, with a wall thickness of at least 20 mm;  3.1.6. Beta particles energy measurement range shall be from 0.125 MeV to 2.2 MeV;  3.1.7. Beta channel activity measurement range shall be from 0.2 Bq to 104 Bq;  3.1.8. Sensitivity to beta-radiation 90Sr+90Y calibration source shall not be less than 0.25 s-1· Bq -1;  3.1.9. Have calibration standard with Sr-90 50 mm diameter;  3.1.10. Have detector installation tool and base;  3.1.11. Have AC to DC power converter;  3.1.12. Be operational with supply voltage 220 V ± 10% (50 Hz);  3.1.13. The total assembly weight of the System shall not be more than 30 kg;  3.1.14. Have a communication software with all needed components to download results into a Microsoft SQL server database. The software interface and operation manual shall be in the English language; and  3.1.15. Have a desktop computer and monitor, compatible with the equipment software with 20inch display, and the latest Windows operating system. | Yes  No |  |
| **5** | **Marking** |  |  |
|  | The System shall have all safety markings in English language. | Yes  No |  |
| **6** | **Packing** |  |  |
|  | The System, for the shipment to the End-User, shall be packed in accordance with international standards that are applicable for the shipment of this kind of equipment. | Yes  No |  |
| **7** | **Quality Requirements** |  |  |
|  | The System shall be manufactured and shipped in accordance with the Contractor’s ISO quality assurance system or an equivalent quality assurance system.  The Contractor shall document the compliance with this quality assurance system. | Yes  No |  |
| **8** | **Testing and Acceptance** |  |  |
|  | The System, prior to shipment, shall be tested for conformance of the System with manufacturer’s performance specifications and the minimum requirements specified herein. | Yes  No |  |
| **9** | **Deliverable Data Items** |  |  |
|  | The Contractor shall provide two complete sets of operation and servicing manuals and technical drawings in the English language. | Yes  No |  |
| **10** | **Support** |  |  |
|  | The Contractor shall identify a support plan appropriate for the End-User, with full contact details. In-country or regional support is preferred.  The Contractor shall list required consumables, any routine or preventative maintenance that is recommended, and components where replacement is expected within a typical ten-year life span. | Yes  No |  |
| **11** | **Warranty** |  |  |
|  | The Contractor shall provide minimum warranties for the System in accordance with the IAEA General Conditions of Contract.  The Contractor shall clearly note the manufacturer’s guarantee conditions, the routine or preventive maintenance required to ensure operation of the System. | Yes  No |  |