#### RFP NO. 93276-AR ULTRAPURE CHEMICALS

#### TECHNICAL PROPOSAL COMPLIANCE MATRIX

A technical proposal compliance matrix shall be completed for the provision of Ultrapure chemicals.

Note: This is a summary document only. Bidders **must** provide detailed evidence outlining how they meet the Statement of Work as per section “Content of Technical Proposal” of the document Special Instructions to Bidders.

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| **ULTRAPURE CHEMICALS** | | | |
| **Specification**  **Ref.** | **Specification Requirements** | **Compliant Yes/No** | **Bidder’s comments** |
| **4** | **Requirements** |  |  |
| **4.1** | **Functional and Performance Requirements** |  |  |
|  | The Goods shall meet the following requirements: |  |  |
| 4.1 a) | The Goods shall be packed properly for the use in the clean environment; and |  |  |
| 4.1 b) | The impurity level of the chemicals shall allow the determination of |  |  |
| 4.1 b) i | Uranium isotopes in nanogram level; and |  |  |
| 4.1 b) ii | Plutonium isotopes in femtogram level. |  |  |
| **4.2** | **Technical Requirements** |  |  |
|  | The Goods shall meet the following technical requirements: |  |  |
| 4.2 a) | The impurity level of all key metals shall be under 10ppt; |  |  |
| 4.2 b) | Uranium and Thorium content shall be under 1ppt; |  |  |
| 4.2 c) | Lead content shall be under 10ppt; |  |  |
| 4.2 d) | Unopened, sealed products shall be able to be stored for 3 years between 15-25oC with minimum exposure to light; |  |  |
| 4.2 e) | Goods shall be provided in a range of unit bottle sizes, starting from 250mL as a minimum amount; and |  |  |
| 4.2 f) | The following quality of the product and quality of the bottle shall be provided: |  |  |
| 4.2 f) i | Nitric acid, w/w 67-69%, in Flouropolymer FEP or PFA bottles; |  |  |
| 4.2 f) ii | Hydrochloric acid, w/w 32-35%, in Flouropolymer FEP or PFA bottles; |  |  |
| 4.2 f) iii | Hydrobromic acid, w/w 44-49% in Flouropolymer FEP bottles; |  |  |
| 4.2 f) iv | Hydrofluoric acid, w/w 47-51%, in Flouropolymer FEP or PFA bottles; |  |  |
| 4.2 f) v | Hydrogen peroxide, w/w 30-32%, in Flouropolymer FEP bottles; |  |  |
| 4.2 f) vi | Perchloric acid, w/w 65-71%, in Flouropolymer FEP bottles; |  |  |
| 4.2 f) vii | Sulphuric acid, w/w 93-98%, in Flouropolymer FEP bottles; |  |  |
| 4.2 f) viii | Ammonia solution, w/w 20-22%, in Flouropolymer FEP bottles; and |  |  |
| 4.2 f) ix | Acetic acid, w/w ≥99%, in Flouropolymer FEP bottles. |  |  |
| **5** | **Marking** |  |  |
|  | The Goods shall have all safety markings in English language. |  |  |
| **6** | **Packing** |  |  |
|  | The Goods, for shipment to the IAEA Seibersdorf, shall be packed in accordance with international standards that are applicable for the shipment of this kind of Goods. |  |  |
| **7** | **Quality Requirements** |  |  |
| 7.1 | The Goods shall be manufactured and shipped and in accordance with the Contractor’s ISO quality assurance system or an equivalent quality assurance system. |  |  |
| 7.2 | The Contractor shall document the compliance with this quality assurance system. |  |  |
| **8** | **Testing and Acceptance** |  |  |
|  | The Goods, prior to shipment, shall be tested by the Contractor for conformance of the Goods with manufacturer’s performance specifications and the minimum requirements specified herein. |  |  |
|  | The Goods shall be tested by the Contractor to demonstrate that the performance meets the manufacturer’s performance specifications and the minimum requirements specified herein as determined by the IAEA. |  |  |
|  | The impurity of the Goods shall be checked by the Contractor prior to shipment. Checking of the impurities shall be conducted in clean room conditions (Class 100 according to IEST-STD-CC1246D or ISO Class 5 according to ISO 14644). |  |  |
|  | The results of the testing of the Goods shall be documented by the Contractor in a protocol. |  |  |
| **9** | **Deliverable Data Items** |  |  |
|  | The Contractor shall provide the Goods Safety Data Sheet to each ordered Goods in the English language. |  |  |
| **10** | **Shipment Schedule** |  |  |
|  | The Contractor shall be capable of providing multiple deliveries of the Goods per year (at least three in number) in accordance with individual purchase orders. |  |  |