# *ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract title: Supply of laboratory accessories**

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**Publication reference:** RORS00063/IRM/04/Lot 3

**Columns 1-2 should be completed by the contracting authority**

**Columns 3-4 should be completed by the tenderer**

**Column 5 is reserved for the evaluation committee**

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

* Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
* Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words ‘compliant’ or ‘yes’ are not sufficient)
* Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offeredspecifications.

Lot 3 – Laboratory accessories

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| **1** | **Set of standard solutions**  **The set should contain:**  Combined seven anion standard solution in water. Volume of 100mL in seald bottle. – **2 pieces**  Combined six cation standard solution in water. Volume of 50mL in seald bottle. – **4 pieces**  **The supplier should provide Certificate of quality for standard solutions.**  **Standard solutions should have Certificate of expiration date that is not less then 2027.** |  |  |  |
| **2** | **Certified reference materials**  (QC Check Sample, Water) – Trace metals: Al, Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Fe, Pb, Mn, Mo, Ni, Se, Ag, Sr, K, V, Zn – **2 pieces**  (QC Check Sample, Soil) – Trace metals: Al, Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Fe, Pb, Mn, Mo, Ni, Se, Ag, Sr, K, V, Zn – **2 pieces**  **The supplier should provide Certificate of quality for certified reference materials.** |  |  |  |
| **3** | **Set of reagents and solutions**  **The set should contain:**  Sulfate Powder Pillows reagents in sealed package for 10 ml sample, Pk/100 – **5 pieces**  Compatibile to Hach spectrophotometer  Porphyrin 1 Powder Pillows reagents in sealed package for 10 ml sample, Pk/100 – **5 pieces**  Compatibile to Hach spectrophotometer  Porphyrin 2 Powder Pillows reagents in sealed package for 10 ml sample, Pk/100 – **5 pieces**  Compatibile to Hach spectrophotometer  Phenols cuvette test**,** for measuring range 0.05-5.00 mg/l, Pk/24 tests – **5 pieces**  Compatibile to Hach spectrophotometer  COD cuvette test for measuring range 0-1000 mg/l O2, Pk/25 tests – **5 pieces**  Compatibile to Hach spectrophotometer  COD cuvette test for measuring range 0-150 mg/l O2, Pk/25 tests – **5 pieces**  Compatibile to Hach spectrophotometer  Potassium hydroxide solution 45 % in volume of 50 ml, for BOD determination – **2 pieces** |  |  |  |
|  | Nitrification inhibitor B in volume of 50ml. Reagent for use in BOD measuring – **2 pieces**  Chloride reagent set, measuring range 0.1-25.0 mg/L Cl⁻ for 10 ml sample, Pk/100 – **3 pieces**  Compatibile to Hach spectrophotometer  Fluoride cuvette test , measuring range 0.1-2.5 mg/L F⁻, Pk/25 – **3 pieces**  Compatibile to Hach spectrophotometer  Ammonia Powder Pillows reagents in sealed package for measuring range 0.01-0.5mg/l, Pk/100 – **5 pieces**  Compatibile to Hach spectrophotometer  Anionic Surfactants Cell Test, measuring range 0.05-2.00 mg/L, Pk/25 – **5 pieces**  Compatibile to Hach spectrophotometer  Cationic Surfactants Cell Test, measuring range 0.2-2.00 mg/L, Pk/25 – **5 pieces**  Compatibile to Hach spectrophotometer  Non-ionic Surfactants Cell Test, measuring range 0.2-6.00 mg/L, Pk/25 – **5 pieces**  Compatibile to Hach spectrophotometer  Sulfide Reagent Set, range 5-800ug/l – **5 pieces**  Compatibile to Hach spectrophotometer |  |  |  |
|  | Sulfite reagent set, burette titration, for measuring range 0 to > 500 mg/L SO3. Pk/100 – **3 pieces**  Compatibile to Hach spectrophotometer  Nitrite Powder Pillows reagents in sealed package for measuring range 0-0.30 mg/l, Pk/100 – **5 pieces**  Compatibile to Hach spectrophotometer  Nitrate Powder Pillows reagents in sealed package for measuring range 0.3-30 mg/l, Pk/100 **– 5 pieces**  Compatibile to Hach spectrophotometer  Phosphate Powder Pillows reagents in sealed package for measuring range 0.02-2.50 mg/L, Pk/100 – **5 pieces**  Compatibile to Hach spectrophotometer  Chromium Powder Pillows reagents in sealed package for measuring range 0.010-0.7 mg/L Cr (VI) , Pk/100 – **5 pieces**  Compatibile to Hach spectrophotometer  Iron Powder Pillows reagents in sealed package for measuring range 0.02-3.00 mg/L, Pk/100 – **5 pieces**  Compatibile to Hach spectrophotometer |  |  |  |
|  | Low Range Silica Reagent set for measuring range 0-1.6 mg/l, Pk/100 – **5 pieces**  Compatibile to Hach spectrophotometer  High Range Silica Powder Pillows reagents in sealed package for measuring range 1-100 mg/l, Pk/100 – **3 pieces**  Compatibile to Hach spectrophotometer  pH Buffer Accuracy solution (pH 4,7 and 10) 500ml plastic bottle of each solution – **5 pieces**  Conductivity Standard Solution Kit (147, 141 i 12.88 uS/cm), 250ml of each bottle – **5 pieces**  Ion Chromatography Eluent Concentrate Solution: Sodium Carbonate/Bicarbonate Concentrate (100X) 250ml  For anion eluent preparation – **3 pieces**  Compatibile to Thermo Fischer Dionex IC system  Ion Chromatography Eluent Concentrate Solution: Methanesulfonic Acid 500 ml  Diluent preparations for cation-exchange applications – **2 pieces**  Compatibile to Thermo Fischer Dionex IC system  **The supplier should provide Certificate of quality for each reagent and solution** |  |  |  |
| **4** | **Set of Ion Chromatography Consumables**  **The set should contain:**  IonPac Anion-exchange Analytical Column, 4 × 250 mm – **2 pieces**  Compatibile to Thermo Fischer Dionex IC system  IonPac Anion-exchange Guard Column, 4 × 50 mm – **2 pieces**  Compatibile to Thermo Fischer Dionex IC system  IonPac Cation-exchange Analytical Column, 2 × 250 mm – **2 pieces**  Compatibile to Thermo Fischer Dionex IC system  IonPac Cation-exchange Guard Column, 2 × 50 mm – **2 pieces**  Compatibile to Thermo Fischer Dionex IC system  Autosampler PolyVials and Caps for ion chromatograph autosampler, packs of 5 ml sample vials including filter caps – **2 pieces**  Compatibile to Dionex AS-DV Autosampler |  |  |  |
| **5** | **Equipment for ICP-MS Systems**  Nickel Sample Cone – **2 pieces**  Compatibile to iCAP Q Series ICP-MS Systems  Nickel Skimmer Cone – **2 pieces**  Compatibile to iCAP Q Series ICP-MS Systems |  |  |  |
| **6** | **Set of pipette tips**  **The set should contain:**  Standard polypropylene 10 ml Micropipette Tips with graduation lines packed in bags of 1000 non-sterile tips – **3 pieces**  Standard polypropylene 5 ml Micropipette Tips with graduation lines packed in bags of 1000 non-sterile tips – **3 pieces**  Standard polypropylene 1 ml Micropipette Tips with graduation lines packed in bags of 1000 non-sterile tips – **5 pieces**  Standard polypropylene 200µl Micropipette Tips with graduation lines packed in bags of 1000 non-sterile tips – **5 pieces**  Tips for all volumes should be suitable for Thermo Scientifics Micropippetes. |  |  |  |
| **7** | **Set of sample cells for spectrophotometer**  **The set should contain:**  Round glass sample cells with caps.  Set of 6 cells (4 with volume of 10mL and 2 with volume of 25ml (marks on 10, 20 and 25mL) – **10 pieces**  Compatible with Hach spectrophotometer  Square glass sample cells.  Set of 2 sample cells with volume of 10 mL – **10 pieces**  Compatible with Hach spectrophotometer |  |  |  |
| **8** | **Stirrer bar for magnetic stirrer**  Cylindrical, PTFE stirrer bars for stirring on magnetic and hot plate stirrers, 20x6mm – **30 pieces** |  |  |  |