



Request for Quotations (RfQ18/01733)
Laboratory equipment for the National Centre of Judicial Expertise
Clarification Questions and Answers
(as of 22-25 May 2018)

- Q.1. According to the RfQ18/01733, Bidder shall submit a set of documents, including: *metrological certificates for the Gas Chromatograph, Infrared Spectrometer FTIR from National Metrology Institute and Center of Applied Metrology and Certification of the Republic of Moldova*. Could you, please, specify which are the certificates that is necessary to be provided from both institutions?
- A.1. The following documents should be present: type approval, initial and periodical verification for GC and FTIR system.
- Q.2. In the RfQ is indicated that the delivery schedule should be maximum 180 calendar days, divided into 2 terms of 90 days for delivery of the equipment and other 90 days to obtain the necessary certificates and training. Due to the fact, that, sometimes, registration and certification procedures performed by National Metrology Institute and Center of Applied Metrology and Certification of the Republic of Moldova can last more than 90 days, please, clarify if the penalty of 1% from the total contract amount per calendar day of late delivery will be applied: starting from the day of delay for delivery of equipment (90 days), either starting from the day of delay for the entire delivery time of 180 days.
- A.2. Liquidated Damages (LD) shall be applied as per RfQ provisions from the day of delay of the entire delivery of 180 days. The Contractor is required to communicate on any delays foreseen with regards to this contract. Application of LD will be additionally discussed with the Contractor.
- Q.3. It is required to submit the Certificate of Country of Origin. We inform you that this type of certificate is issued by Chamber of Commerce from the manufacturer's country only when the goods are ready to be delivered and for a particular order. Therefore, please, let us know if providing the Certificate of Country of Origin at the delivery of the goods, either a copy from previous shipment is acceptable.
- A.3. A copy of Certificate of Country of Origin can be submitted at the bids submission stage. However, upon delivery, the equipment shall be accompanied by the Certificate of Country of Origin in original.
- Q.4. The RfQ indicates that transportation should be made by land. Our forwarding company uses different modes of transportation, that are more suitable. Please, confirm if it is acceptable to use other type of transportation.
- A.4. The Request for Quotation indicates preferred transportation method. The Bidder can choose any the of available transportation means, upon receipt, the equipment will be tested for good functioning condition.
- Q.5. In Annex 1, 1-2 Accessories, it is requested that *the offered product must be able to be coupled to a mass spectrometer (MS)*. Please, precise if a GC should be offered with coupled MS detector as an option. In this case, will the cost of the MS detector be considered during evaluation process?
- A.5. The offered product must have the possibility to connect to a mass-spectrometer. No Mass Spectrometer is required to be supplied during this bidding process. The cost of the Mass Spectrometer will not be considered during the evaluation process.
- Q.6. For Hydrogen Generator, please, note that, usually, a pressure of 5 bar is enough for normal operation of the GC. In this regard, please, clarify if we can offer a hydrogen generator with 7-11 bar maximum pressure?
- A.6. The offered Hydrogen Generator shall fall within the range of 6 to 12 bar. In case you offer hydrogen generator with 7-11 bar maximum pressure, it is acceptable.



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- Q.7. In the Annex 2, Table regarding Maintenance costs, please, clarify what is the requested frequency/periodicity for the Periodic Maintenance and for what specific period of time?
- A.7. The periodicity of maintenance for GC and FTIR systems should be specified in the user and technical manuals. The frequency varies from manufacturer to manufacturer. Therefore, the requested information must be provided as per manufacturer requirements for functioning of the equipment. No deviations can be accepted.
- Q.8. Could you please inform us regarding the intended use of the hydrogen generator and the air compressor?
- A.8. Nitrogen and hydrogen will be used as a carrier gas for the GC system. The air compressor is going to be used for the FID.
- Q.9. In the flow control unit technical specifications, for the split/spitless mode, the pressure setting range has to be from 0 to 1000 kPa or more, with the pressure set point resolution of min. 0.001 psi. Since the proposed values do not have an influence on the sample determination, separation/quantification or the chromatogram resolution, but will impact the stability of the equipment, we ask to agree with the equivalent option of "the pressure setting range of 0-100 psi, with a set point of 0.1 psi with the advantage of increased stability in time (more than 6 months)". Please take notice that the required numeric values are declared by a single manufacturer, all the other manufacturers mention the injector specifications of this stability over time, but without setting any numerical values. Also, take into consideration that the robustness and repeatability of GC equipment is given by stability.
- A.9. The technical specifications are amended as per below:
Split/spitless mode: the pressure setting range from 0 to 145 psi (equivalent to 1000 kPa) or more, with the pressure set point resolution of min. 0.001 psi.
- Q.10. In the technical specifications of flow control unit, for the split/spitless mode, the total gas flow has to be settable from 1000 to 1500 mL/min. The total gas flow depends on the volume content from the column; therefore, we kindly ask you to accept and equivalent expression of "the total gas flow has to be settable from 0 (OFF) to a ratio of 500:1 dependable on the flow content from the column".
- A.10. Please refer strictly to the Technical Specifications provision, no deviation shall be accepted. The requested minimal technical specification of the flow control unit is corresponding to the necessities of the end user and the field of application.
- Q.11. In the technical specifications of direct injection mode (Pressure mode), the split ratio has to be settable from 7600:7400:1 or wider. Since the required numeric values are declared by a single manufacturer, we kindly ask you to accept the equivalent expression "Split ratio easily adjustable for a wide range of analytical conditions".
- A.11. Please refer strictly to the Technical Specifications provision, no deviation shall be accepted. The requested minimal technical specification for the injection mode split ratio corresponds to the necessities of the end user and the field of application.
- Q.12. According to the General Requirements, the equipment (Gas Chromatograph, Infrared Spectrometer FTIR) has to be included in the national Register of measurement instruments from National Metrology Institute. In conformity with the National Metrology Institute regulations, the instrument has to be installed at the beneficiary in order to make the necessary measurements for its inclusion in the national Register. Therefore, we kindly ask you to accept the formulation: "The bidder will ensure the inclusion in the national Register of measurement instruments from National Metrology Institute after installation".
- A.12. We therefore confirm, that the bidder shall register the equipment in the National Register of measurement instruments from National Metrology Institute within 75 calendar days after installation, but not later than within 90 calendar days after delivery.



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- Q.13. In the technical specifications of direct injection mode (Pressure mode), the split ratio has to be settable from 7600:7400:1 or wider. Since the required numeric values are declared by a single manufacturer, we kindly ask you to accept the equivalent expression "Split ratio easily adjustable for a wide range of analytical conditions".
- A.13. Please refer strictly to the Technical Specifications provision, no deviation shall be accepted. The requested minimal technical specification for the injection mode split ratio corresponds to the necessities of the end user and the field of application.
- Q.14. The indicated flow rates for gas generators are in a very broad range. If you only plan to have one GC, we would rather offer H2 and N2 generators with flow rates close to the lowest limit you specified (100 mL/min for H2 and 250 mL/min for N2). Is it acceptable?
- A.14. The Beneficiary intends to acquire only 1 GC under this RfQ. As long as the offered equipment will be within the range indicated in the solicitation documents (even close to the lowest limit, but not below), it will be acceptable.