

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

Contract title : Special equipment

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Publication reference : 2SOFT/4.3/167 , 21037803 on 29.04.2021

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 offered specifications.

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
Lot 1 – Equipment for the measuring the quantity of alcohol vapors in expires air;	Annex 1.	<p>Set consisting of 1 pc. of alcohol detecting device Dräger Alcotest A6820 (p/n 8322660) for measurement of the concentration of alcohol vapor in expired air, 1 pc. Dräger Mobile Printer (mini printer) (p/n 8319310), 1 pc. hard transport case, 5 rolls of thermal paper for mobile printer (7 years life time), 100 pcs. disposable mouthpieces individually sterile packed. All components are made by Dräger Safety AG & Co. KgaA, Germany. Each measuring instrument will be delivered with a Calibration Certificate (valid for the next 6 months, issued by the manufacturer or a locally authorized service center), as well as a Metrological Certificate from National Metrological Institute (valid for 12 months) - both less than 1 month old at the time of delivery of the goods. Views of offered set, of the breathalyzer with the mounted mouthpiece, of the mini-printer and of the used mouthpiece are presented in the attached Set_A6820.semnat.pdf, A6820 + must.semnat.pdf, Mobile_Printer.semnat.pdf, Mustiuc.semnat.pdf. The Dräger A6820 alcotester is metrologically approved in the Republic of Moldova according to NML R 126: 2009 (OIML R 126:2012) for evidential breath analyzers (Aprobare_Model_A6820.semnat.pdf and Descriere_Model_A6820.semnat.pdf are attached). The supplier of the set (Labromed Laborator SRL) is the official distributor of the manufacturer in the Republic of Moldova</p>	<p>Views of offered set: Set_A6820.semnat.pdf A6820+must.semnat.pdf Mobile_Printer.semnat.pdf Mustiuc.semnat.pdf.</p> <p>Metrological approval (Republic of Moldova) according to NML R 126: 2009 (OIML R 126:2012) for evidential breath analyzers: Aprobare_Model_A6820.semnat.pdf Descriere_Model_A6820.semnat.pdf</p> <p>Manufacturers certificates: ISO14001_Dräger.semnat.pdf ISO14001_anex_Dräger.semnat.pdf ISO9001_Dräger.semnat.pdf ISO9001_anex_Dräger.semnat.pdf</p> <p>Distributor's certificates: Certificate_Draeger_Labromed.semnat.pdf Certificat_Dräger_Academy.semnat.pdf</p>	

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		<p>(Certificate_Draeger_Labromed.semnat.pdf) and provides warranty and post-warranty service, calibration, spare parts supply, additional accessories and consumables for at least 10 years after the sale. The technical maintenance and calibration of the devices will be performed at the supplier's headquarters in Chisinau, by specially trained and authorized by the manufacturer personnel (example of certificate - Certificat_Dräger_Academy.semnat.pdf attached). Training of unlimited number of users (with issuing of corresponding certificate) is done at no charge by the supplier.</p> <p>The manufacturer, Dräger Safety AG & Co. KgaA, Germany, is certified compliant of ISO 14001 (ISO14001_Dräger.semnat.pdf and ISO14001_anex_Dräger.semnat.pdf attached) and ISO 9001 (ISO9001_Dräger.semnat.pdf and ISO9001_anex_Dräger.semnat.pdf).</p> <p>The warranty period for the set, except for the electrochemical sensor - 1 year.</p> <p>Warranty period for the electrochemical sensor: until one of the conditions is met -3 years or 3000 tests.</p> <p>The measuring device (alcotester) is a hand-held, independent device (no cable connections with other devices), two AA batteries/rechargeable elements powered, and with ability to printing the results using a mobile mini-printer (powered by 4 AA batteries/rechargeable elements). The communication between the alcotester and the mobile impeller is done through an optical interface (wireless). Hard-cover transport case sizes: ~ 350 × 270 × 80 mm. Each set also</p>	<p>User manuals: Alcotest_6829_IFU_Ro.semnat.pdf Alcotest_6820_IFU_En.semnat.pdf Mobile_printer_IFU_EnRoRu.semnat.pdf Alcotest_Mouthpieces_HowTo.signed.pdf</p> <p>Presentation brochures: Alcotest_6820_Info_En.semnat.pdf Mobile_Printer_Info_En.semnat.pdf</p>	

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		<p>includes 6 batteries, type AA (2 for alcotester and 4 for printer). Under normal (room) working conditions, a set of batteries is enough for about 1500 tests to be performed.</p> <p>Alcotester characteristics:</p> <ul style="list-style-type: none"> - Measuring principle: electrochemical sensor. - Sensor lifetime (warranty period): minimum 3000 tests or 3 years as warranty, typically over 5000 tests. - Calibration: every 6-month to ensure compliance with NML R 126: 2009 (OIML R 126:2012) accuracy requirements for evidential breath analyzers. - Types of tests performed: <ul style="list-style-type: none"> ◦ "automatic test" - after blowing 1.2 L of air, with indication of the BrAC in mg/L (approved legal procedure), with the possibility to indicate in other units or to indicate the corresponding BAC using the desired conversion factor (to be set according to the buyer's choice), ◦ "manual test" - at the operator's command, at any time of blowing, with the indication of the measured BrAC (optionally, can be deactivated), ◦ "passive test" - at the operator's command, does not require blowing in the mouthpiece, with or without indication of the obtained BrAC (optionally, can be deactivated on request), - Disposable polystyrene mouthpieces, individually antiseptic packed. - Measuring range: the concentration of alcohol in the exhaled air (in mg/L, at 34 ° C and 1013 hPa.) 		

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		<p>from 0,00 to 2,50 mg/L, displayed in steps of 0,01 mg/L, with the possibility of setting three threshold values (result within permitted limits, alert and exceeding the maximum value), exceeding which will be indicated on the screen and by beeps and multicolored LED lights.</p> <ul style="list-style-type: none"> - Measurement units: mg/L BrAC by default, with possibility to show in g/L, percent, permille or another units at choice (including BAC concentrations, by multiplying by a country-specific conversion factor). - Accuracy: standard deviation of repeatability (tested with ethyl alcohol standard) <ul style="list-style-type: none"> ◦ ≤ 0.008 mg / L for alcohol vapor concentrations up to 0.50 mg / L; ◦ $\leq 1.7\%$ of the measured value for alcohol vapor concentrations above 0.50 mg/L. - Monthly sensitivity drift: typically 0.4% of the measured value/month (below the allowed by NML R 126:2009 / OIML R 126:2012 limits). - Display: alphanumeric liquid crystal display with backlight, to show test results and additional information such as battery charge level, errors, date, time, device serial number information, calibration information, etc. - Additional indications: three color LED (green, orange, red) and audible signals to indicate the start and exit in operation, errors, the exceeding of the threshold values etc. - Taking samples for "automatic test" when the following conditions are met: <ul style="list-style-type: none"> ◦ breath volume: default 1.2 L (settings domain available $\pm 50\%$ from default value), ◦ breath flow: default ≥ 10 L / min 		

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		<p>(settings domain available \pm 50% from default value),</p> <ul style="list-style-type: none"> ◦ duration of breath: default 2 s (settings domain available \pm 100% from default value). <p>- Ambient conditions:</p> <ul style="list-style-type: none"> ◦ operation: temperature from -5 to $+50$ ° C; humidity from 10 to 100% R.H. (non-condensing), atmospheric pressure from 600 to 1400 hPa; ◦ storage: similar to operating conditions, with temperatures from -40 to $+70$ ° C. <p>- Waiting time from switching on until device is ready for first test: <30 s.</p> <p>- Waiting time until device is ready to use:</p> <ul style="list-style-type: none"> ◦ measurement: approx. 2 s, ◦ after a previous measurement of: <ul style="list-style-type: none"> 0.25 mg / L - 20 s, 0.50 mg / L - 40 s, 1.00 mg / L - 80 s, > 1.5 mg / L - 120 s. <p>- Internal clock: present, with deviations of maximum \pm 3 minutes between two calibrations/services if continuously supplied from batteries; running-time without batteries – at least 10 minutes for a new device.</p> <p>- Internal memory - last 2000 tests, each test result logged with information on device model, serial number, test date/time, unique test identification number, type of test (automatic, manual or passive), compliance with the set threshold values; after 2000 tests, the new data are written cyclically over the old data; any previous test from memory available to be displayed/printed from menu, data logger</p>		

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		<p>available for reading/downloading to a PC (with additional special software and cable not included in set).</p> <ul style="list-style-type: none"> - Hand strap to prevent accidental escape from hand. - Design/Dimensions/Weight: convenient shape/design for holding and operating with one hand, dimensions 65 x 147 x 39 mm (WxHxD), 3 buttons on front, ergonomically placed, for one-handed operation, weight (without batteries) - about 260 g. - Power supply: 2 batteries type Mignon, 1,5 V Alkaline, LR6, AA (can be replaced with rechargeable 1,2 V NiMH batteries of the same shape, with batteries charging available upon purchasing of additional charger), a set of batteries is enough for at least 1500 measurements during the first 6 months (at room conditions). - Housing: hard, shock-resistant plastic housing. - Ingress Protection class: IP 54. - Electromagnetic compatibility: CE Mark for EU directive (2014/30 / EU). - Display language: Romanian (default), French, English or German. - User manuals (printed): in Romanian (or other language according to user preference). - Presentation of the device, other characteristics and how to use it - in the presentation brochure (Alcotest_6820_Info_En.semnat.pdf) or in the user manuals (Alcotest_6829_IFU_Ro.semnat.pdf or Alcotest_6820_IFU_En.semnat.pdf). <p>Instructions on using disposable mouthpieces presented in</p>		

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		<p>Alcotest_Mouthpieses_HowTo.signed.pdf.</p> <p>Mobile printer (and thermal paper) characteristics:</p> <ul style="list-style-type: none"> - Prints short protocols with test results (according to PML 5-05:2018) directly on site, - With magnets for fixing on smooth horizontal metal surfaces. - Data received from the alcotester via optical interface (wireless). - Single button operation. - Multicolor LED and beeps used to indicate switching on/off, ready to use state, battery charging/discharging, depleting of paper roll or other states or errors. - The protocol/receipts contain data on the alcotester serial number, printer serial number, date/time of the test, the unique identifier (serial number) of the test, the value and measurement units of the test result, empty fields (to be manually filled in) for the tested person name, date of birth, IDNP or other similar data), site location, operator of the measuring device. - High-quality, long-term stable thermal paper (7 years). - Ambient conditions: <ul style="list-style-type: none"> ◦ operation: temperature from –5 to +50 °C; humidity from 10 to 100% R.H. (non-condensing); ◦ storage: temperature from –20 to +50 °C; humidity from 10 to 100% R.H. (non-condensing). - Dimensions: 110 x 60 x 205 mm (WxHxD). 		

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		<ul style="list-style-type: none"> - Weight (without batteries): 400 g. - Power supply: 4 batteries type Mignon, 1.5 V Alkaline, LR6, AA (can be replaced with rechargeable 1,2 V NiMH batteries of the same shape, with batteries charging available upon purchasing of additional charger, the same as for alcotester) in easily accessible sockets for quick replacement. - Electromagnetic compatibility: CE Mark for EU directive (2014/30 / EU). - Printer overview, other features and how to use - in the presentation booklet (Mobile_Printer_Info_En.semnat.pdf) or in the user manual (Mobile_printer_IFU_EnRoRu.semnat.pdf). 		