**Questions and answers**

**RFQ/SMM/112/2019** **Supply of gas detectors for the OSCE Special Monitoring Mission to Ukraine (SMM)**

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| **No** | **Question** | **Answer** |
| 1 | The devices can detect toxic and combustible gases but at least O2, CO, NO2, SO2, H2S, CH4 and C3H8 (explosive gases), CO2, Cl2, HCN, NH3, NO, PH3 ,C6H6 (Benzene) and gases detected by PID and IR.    Main gases to be detected for stationary device – methane, ammonia NH3, chlorine CI, carbon oxide CO. For portable devices - methane, propane, ammonia NH3, chlorine CI, carbon oxide CO, arsine AsH3, nitrogen dioxide NO2, hydrogen cyanide HCN, hydrogen chloride HCl    We understand the security implications for parameter settings, but it seems everyone needs to know which gas - we will provide as many as possible in a best fit solution. | **Main gases to be detected:** for stationary device – methane, ammonia NH3, chlorine CI, carbon oxide CO, formaldehyde CH2O, phenol C6H6O; for portable device - methane, propane, ammonia NH3, chlorine CI, carbon oxide CO, arsine AsH3, nitrogen dioxide NO2, hydrogen cyanide HCN, hydrogen chloride HCl, formaldehyde CH2O, phenol C6H6O. Please use this information as main guidance. |
| 2 | You should be aware (if not already) know that in fixed detection, we need to get one detector per gas and each of them has to be connected to a controller.  The fixed detectors can potentially support some bad weather (from -20°C to +40°C) but this is not the case of the controller that will have to be situated inside.  The model of the controller depends on the number of detector you will need to connect.  So when you write you need 8 detectors, are you requiring 8 detectors per gas?  if not please clarify how many detectors you need for each gas. We assume 1 detector per 1 gas, or 1 detector for multiple gasses if possible - does OSCE agree ? | **Fixed** **scenario** – 1 detector for multiple gases if possible. If not possible for fixed devices, then 1 detector per each gas stipulated in para.1. “The model of the controller depends on the number of detector you will need to connect.” – we need the detectors for all the above gases specified for stationary device, meaning that the controller will have to be connected to all required detectors. |
| 3 | Same question for the portable devices: providing you with multi gas detectors is possible but do you need 2 detectors for the whole gases or each gas have to be detected by 2 devices? Does OSCE agree? | **Portable** **scenario** – each portable device can detect gases stipulated in para.1 (multi-gas detector). If there is a device which can detect all of them, that is exactly what we need. |
| 4 | On point 13, “the device has to get a PID and/or infrared sensors” but these sensors are totally different.  PID sensors can be provided for VOCs such as Benzene and infrared sensors for CO2,  but for the other gases, we will be able to provide electrochemical sensors only – for OSCE awareness only, or please elaborate. | Regarding the **sensors** (point 13) – acknowledged. The main concern is that the sensors will detect all gases listed for each device in para.1 and have the longest operational cycle. Would be great if multi-gas detector could have several sensors combined for best results. |