

Request for Information (RFI) – Refurbishment and installation of equipment for 4 analytical mobile monitoring trailers

Supplier Name	
Contact Name	
Contact Email Address	
Contact Tel Number	

Instructions:

1. UKHSA are establishing a fleet of air quality monitoring trailers to collect data & evidence in the form of real-time measurements of a large suite of air pollutants in the ambient air. This RFI is seeking to develop UKHSA's understanding of the feasibility of different contractors for the repurposing of 4 mobile laboratory trailers used during covid. The issuance of this RFI does not constitute a sourcing exercise but responses provided will help to shape UKHSA's sourcing strategy. UKHSA will not pay any costs incurred by respondents in the preparation of a response to this RFI.
2. The UKHSA's key objectives for this RFI are:
 - a. to understand the market's interest in meeting its requirements.
 - b. to understand the market's appetite for meeting UKHSA's needs via different contracting models and
 - c. the ability for UKHSA to flexibly utilise the platform in public health emergencies for chemical incidents.
3. The key dates for this RFI are as follows:
 - a. **RFI Published: 8th January 2025**
 - b. **RFI Response Deadline: 12pm – 29th January 2025**
4. Should you have any questions or queries relating to this RFI, please use the Atamis portal's messaging centre to direct your questions to us for a response.
5. If a response is not received by the RFI response deadline this will have no impact on your ability to tender for the opportunity in the future. UKHSA will not enter into contracts on the basis of replies to this RFI.

Description of Scope of Requirements

UK Health Security Agency (UKHSA) is responsible for protecting every member of every community from the impact of infectious diseases, chemical, biological, radiological, and nuclear incidents, and other health threats. We provide intellectual, scientific, and operational leadership at national and local level, as well as on the global stage, to make the nation's health secure.

This requirement is for the repurposing of 4 mobile laboratory trailers to provide comprehensive ambient air mobile monitoring capability which will deliver 'state of the art' field sampling resource for deployment in most situations where the best quality data is required in support of incident response and/or research. The specification of the mobile analytical trailers will contain dedicated instruments with high precision and accuracy along with the ability to deploy quickly, without the constraints of having to procure/lease kit or support from other stakeholders. It would be the expectation of the contractor to install and commission the instrumentation, and therefore provide a fully functional mobile monitoring facility.

UKHSA is seeking to refurbish and install analytical equipment in 4 analytical trailers in a manner consistent with the Environment Agency fleet of Mobile Monitoring Facilities, including:

- Structural refurbishment (see specification, figure 1);
- Provision and installation of an instrument racking system and mounting of the instruments outlined in table 1;
- provision and installation of Envidas data logger and environmental data acquisition system;
- provision and installation of a suitable temperature and humidity management system;
- provision and installation of gas cylinder cages, manifolds/ regulators, and calibration gases for the analytical instrumentation outlined in table 2;
- provision and installation of a suitable electrical isolating transformer;
- provision and installation of meteorological Mast and Sensors - Wind Speed / Direction / Temperature / Pressure & Data logger;
- commissioning of the analytical instrumentation outlined in table 1; and
- Any necessary maintenance and repairs required as part of the refurbishment including electrics.

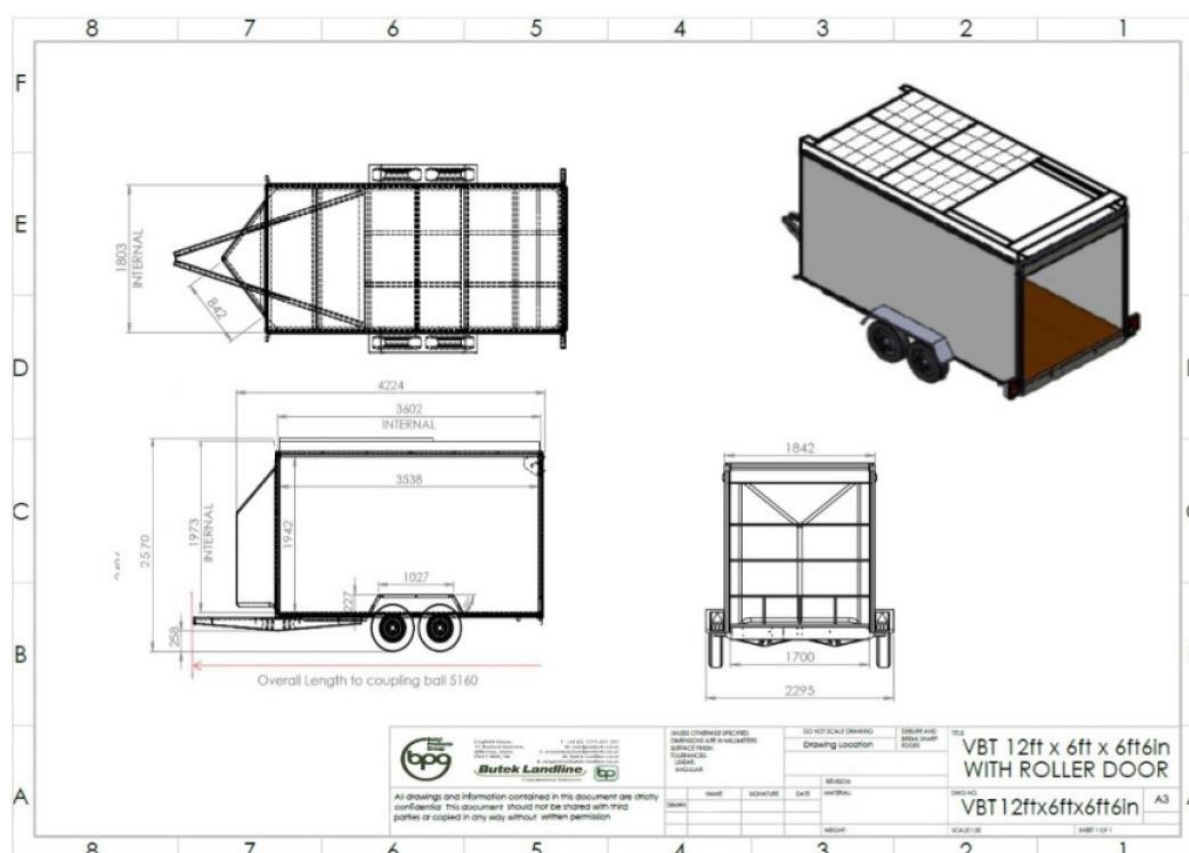


Figure 1: Diagram of the trailers to be refurbished, including dimensions.

Table 1: Detailed description of analytical equipment to be installed in trailers 1-4.

Trailers 1 & 2	Trailer 3	Trailer 4
Gas Chromatography Chromatotec airToxic BTX single column GC analyser for C2 to C6 with nitrogen generator	Gas Chromatography Chromatotec dual column ozone precursor GC analyser (C ₂ to C ₆ and C ₆ to C ₁₂) for PAMS 56 plus hydrogen generator	Ambient continuous multi-metals monitor (Salibri Cooper model XACT 625i) including installation and training
FIDAS PM ₁₀ / PM _{2.5} particulate analyser	FIDAS PM ₁₀ / PM _{2.5} particulate analyser	FIDAS PM ₁₀ / PM _{2.5} particulate analyser
Digitel DHA-80 High Volume Sampler with filters and PUF plugs	Medium vol Particulate Matter sampler (auto-change sampler) plus filters	ABB LGR 19" Enhanced performance NH ₃ Los Gatos analyser
ABB LGR Greenhouse Gas Los Gatos Analyser CH ₄ / CO ₂ / H ₂ O vapour	ABB LGR Portable Greenhouse Gas Los Gatos Analyser CH ₄ / CO ₂ / H ₂ O	ABB LGR Portable Greenhouse Gas Analyser Los Gatos CH ₄ / CO ₂ / H ₂ O
Teledyne T101 SO ₂ analyser	Teledyne T101 SO ₂ analyser	Teledyne T101 SO ₂ analyser

Teledyne T101 H ₂ S analyser	Teledyne T101 H ₂ S analyser	Teledyne T101 H ₂ S analyser
Teledyne N500 NO ₂ (CAPS) analyser		Teledyne N500U NO ₂ CAPS analyser
Teledyne T300 CO analyser		
Teledyne T400 Ozone analyser		
Picarro ammonia analyser (model SI2103)		

Table 2: Detailed description of additional equipment and supplies to be supplied and installed by the contractor in trailers 1-4.

Trailers 1 & 2	Trailer 3	Trailer 4
Cylinders plus calibration system	Cylinders plus calibration system	Cylinders plus calibration system
Double Bay 19" Racking	Double Bay 19" Racking	Double Bay 19" Racking
Gas analyser logger plus racking and inlet manifolds	Gas analyser logger plus racking and inlet manifolds	Gas analyser logger plus racking and inlet manifolds
Sets - valves/inlets/cages	Sets - Valves/inlets/cages	Sets - Valves/inlets/cages
Miscellaneous extras such as signage, anti-graffiti paint and transport to and from point of refurbishment	Miscellaneous extras such as signage, anti-graffiti paint and transport to and from point of refurbishment	Miscellaneous extras such as signage, anti-graffiti paint and transport to and from point of refurbishment
Correction of electrics where required	Correction of electrics where required	Correction of electrics where required
Installation of isolating transformer	Installation of isolating transformer	Installation of isolating transformer
PC, Industrial EnVidas Data logger and Data Collection software with GPRS / 4G modem	PC, Industrial EnVidas Data logger and Data Collection software with GPRS / 4G modem	PC, Industrial EnVidas Data logger and Data Collection software with GPRS / 4G modem
Clarks Met mast and sensors - Wind Speed / Direction / Temperature / Pressure & Data logger	Clarks Met mast and sensors - Wind Speed / Direction / Temperature / Pressure & Data logger	Clarks Met mast and sensors - Wind Speed / Direction / Temperature / Pressure & Data logger

Timescales

Work to be undertaken in the next financial year (1st April 2025- 31st March 2026), completion before 31st December 2025.

Questions

- 1) Please confirm whether your organisation would have an interest in bidding for the refurbishment and installation of equipment for 4 analytical mobile monitoring trailers on behalf of the UKHSA.
- 2) Please provide evidence of your experience in commissioning air quality monitoring stations, including the installation of instruments, logger and data acquisition software. Where possible, please provide examples of similar projects which you have worked on, and the client who the work was completed for.
- 3) What is your proposed timeline for completing the refurbishment and installation of the equipment in all four trailers?
- 4) What measures will you implement to ensure the structural integrity and safety of the trailers during transit and operation in various environmental conditions?
- 5) How flexible is your installation design in terms of customisation to accommodate future additions or changes in analytical equipment?
- 6) What climate control solutions do you propose to ensure the optimal operating conditions for the analytical equipment within the trailers?
- 7) What ongoing maintenance and support services do you provide post-installation?
- 8) What potential risks do you foresee in this project, and how would you mitigate them?