

Annex 3 – Products technical specifications

Item # 1: Biological/ Pathogen Detector

- BioFlash Biological Identifier or equivalent)
- A bio-aerosol collection and identification system.
- Provide a low-risk, cost-effective biological sampling and identification solution for environmental monitoring.
- Provides rapid, sensitive and specific identification of various diseases and common bioterror agents such as anthrax, ricin, botulinum toxin, black plague, tularemia, smallpox and SARS-CoV-2.
- Portable, durable and capable of taking high sample volumes in short periods of time. Allow for both indoor and outdoor applications, so air quality can be tested quickly and easily.
- Can be configured as a stand-alone device, used in tiered detection architectures to include a trigger and confirmatory sampler, or as an integrated component subsystem.
- Operates using disk consumables that contain genetically engineered biosensors, expressing both the agent-specific antibodies and the calcium-sensitive bioluminescent molecules that are needed to produce light emission.
- Each disk contains sixteen cuvettes with different agent-specific biosensors in specific cuvettes.
- Able to capture particles up to 10 microns in size
- Compact and lightweight design
- Easy to use and decontaminate
- PCR levels of sensitivity and specificity
- Analysis time – approx. 3 minutes

Illustrative picture:



Item # 2: CBRN Decontamination Shelter

- SHELTER CBRN/2 or equivalent
- Self-contained large capacity mobile field station for continuous CBRN decontamination/detoxification of persons, materials, vehicles, sensitive equipment, for ground decontamination and fire-fighting.
- self-contained mobile field station that includes decontamination unit and other accessories.
- Can be rapidly deployed within 40-50 minutes by just 2-3 operators. It can be easily unloaded from the truck using its own hydraulic loading/unloading system.
- It contains a 3000-liter capacity stainless steel water tank.

Illustrative picture:



Item #3: Chemical Detection Paper

- Calid 3 or equivalent
- Must be designed for a simple detection and differentiating between 3 major groups of chemical warfare agents G, V and H in a liquid form only.
- Drop of chemical agent must create immediately colour spot on the paper.
- Must be possible to determine groups of the G, V, and H agents within 30 seconds, according to the colour.
- The detector must be designed as a booklet in different form.

Illustrative picture:



Item #4: Chemical Detector

- Smiths GID-3 or equivalent
- Portable, easy to use and rapidly deployed
- Able to operate remotely from a land vehicle or ship to provide perimeter protection, and be networked to provide warnings of contamination.
- Easily reprogrammed to accommodate changing threats.
- Comply with MIL-STD-810G, MIL-STD-1275D, MIL-STD-461F and JSS 5555:2000.
- Detect nerve, blood, blister and choking agents and the level of threat
Provide visual and audible alarms both locally and remotely
Able to be used in vehicles and by dismounted troops
Detect selected toxic industrial chemicals (TICs)
Operate continuously with quick response and clear down times.
- Provide visual and audible alarm both locally and at remote locations
- Can be interfaced with a transmitter enabling remote, wireless detection and warning

Illustrative picture:



Item #5: Collapsible marker cones

- Porta Cone 450 or equivalent
- With a reflective orange shell and internal LED light
- folding down to a 5cm high base
- Washable fluroescent orange nylon outer shell
- Sturdy PVC base and inner rings
- 300m visibility tape reflector bands
- 1000m+ visibility internal LED lights
- 300 hour run time lights (2 x AAA batteries)
- Water resistant to 1 metre
- Unfolded height (base to tip): 450 mm
- Base dimensions: 245x245mm
- Internal led light: 1
- Base construction: PVC
- Weight: 1.2kg

Illustrative picture:



Item # 6: Cordon tape

- High-visibility cordon tape for emergency services
- Made from recyclable non-adhesive polyethylene (LDPE)
- Each roll is supplied in a handy dispenser carton

Item #7: Decontamination Bin and Bags

- Biohazard Waste Disposal Bin
- Capacity: 60 litres
- With wheels and logo “Biohazard waste”
- Highly visible printed bags for disposal of medical and clinical waste
- Bins and matching waste bags 60L (roll of 25 per each bin)
- Compact self-seal bags

Illustrative picture:



Item #8: Decontamination foam- person and equipment/ vehicles

- ContaminX or equivalent
- A spray-on cleaning solution used on surfaces that have been contaminated with biological or chemical agents (e.g., chemical warfare agents, anthrax spores or other toxic industrial intended for use in areas where large numbers of people have possibly been contaminated
- Alcohol 80%
- 30 ml

Item #9: Detection Strips (Detehit or equivalent)

- Uses the principle of inhibiting acetylcholinesterase and then detecting the extent of its damage. Possible to detect the presence of any inhibitor, i.e., combat chemicals, organophosphate and carbamate pesticides, and therefore a novel, yet unknown, agent which has the ability to inhibit ACHE.

- Detect nerve agents in air, water, food and on the surface.
- Can determine dangerous concentrations of nerve agents in the air (within 2-3 minutes), if it is possible to remove the gas mask (5-15 minutes) or whether food or water are acceptable for intake (15-30 minutes).
- Each strip sealed in foil, 5 strips in a block. 10 strips with the instruction list in the PE tube or, different number of strips (20, 10, 5) in the PE foil sealed pouch.

Illustrative picture:



Item #10: Donning and doffing tent

- Outdoor Portable Instant Pop Up
- Good ventilation, structural stability, ventilation
- Dimensions/Size: 120 cm x 120 cm x 190 cm

Illustrative picture:



Item # 11: Hazardous Waste Vacuum Cleaner

- Numatic HazMat or equivalent
- 99.97% filtration efficiency
- all-steel construction
- Power: 1200W
- Capacity: 9L
- Airflow: 42L/s
- Cleaning Range: 26m

Illustrative picture:



Item # 12: Multi-sensor gas monitor (Ibrid MX-6 or equivalent)

- Multi gas detector can simultaneously monitor up to 6 gases from a wide range of cells: detection of explosive combustible gases, solvents and hydrocarbons, Cl₂ (chlorine), CO (carbon monoxide), CO₂ (carbon dioxide), ClO₂ (dioxide chlorine), H₂ (hydrogen), H₂S (hydrogen sulfide), HCl (hydrochloric acid), HCN (cyanidric acid), NO (nitrogen monoxide), NO₂ (nitrogen dioxide), NH₃ (ammonia), O₂ (oxygen), PH₃ (phosphine), SO₂ (sulfur dioxide) & VOC (PID 10.6 eV lamp for the detection of volatile organic compounds).
- Displays real-time measurements in ppm or % by volume
- Intuitive menu and a 5-key navigation pad
- Sensors:
 - Combustible gases / Methane: catalytic diffusion and/or infrared absorption
 - CO₂: infrared absorption
 - Oxygen and toxic gases: electrochemical
 - Volatile organic compounds: Photoionization (PID)
- Display: STN colored graphic LCD
- Case material: Lexan/ABS/stainless steel with rubber protective overmold
- Power supply/run time:
 - Lithium-ion rechargeable battery: usually 24 hours
 - Lithium-ion rechargeable extended battery: usually 36 hours
 - AA disposable alkaline batteries: usually 10.5 hours
- Approvals:
 - IECEx/ATEX: EEx ia d IIC T4 Equipment group and category: II 2G
 - UL: Class I, Groups A,B,C,D T4 ; AEx ia d IIC T4
 - CSA: Class I, Groups A,B,C,D T4

Illustrative picture:



Item # 13: Peli boxes large

- Waterproof, Crushproof & Lightweight
- Interior: 23.4 × 17.6 × 13.3"
- Exterior: 26.6 × 20.7 × 14.9"
- Made of Super-Light HPX2 Polymer
- Pick-N-Pluck Foam Insert
- Colour: Orange

Illustrative picture:



Item # 14: Peli boxes small

- Waterproof, Crushproof & Lightweight
- Interior: 21.4 x 16.5 x 7.9" / 54.4 x 41.9 x 20.1 cm
- Exterior: 24.3 x 19.4 x 8.7" / 61.7 x 49.3 x 22.1 cm
- 1.8" / 4.6 cm (Lid Depth)
- Made of Super-Light HPX2 Polymer
- Pick-N-Pluck Foam Insert
- Colour: Orange

Illustrative picture:



Item #15: Plastic Zip Loc bags

- Biohazard Kangaroo zip lock bag or equivalent
- With document pouch for art test kit
- 6.5" x 7.7" x 0.05mm
- Pack of 100 pcs



Item #16: Radiation detector

- A hand-held, portable, and ruggedized radioisotope detector and identifier
- Manufacturer: Smiths Detection, Inc.
- Product Name: RadSeeker
- Detection Category: Radiological/Nuclear
- Detection Principle: Scintillation Detectors;
- Detection Method: Scintillation Detectors; Solid-State Detectors;

- Application: Personal Radiation Detectors; Dosimeters;
- Technology Readiness Level (TRL): 9
- User Feedback Sources Indifferent/No user feedback
- Dimensions: 7 x 12 x 4.5 in (17.8 x 30.5 x 11.4 cm)
- Weight: <30 Lbs.; CS: 5.2 Lbs. (2.4 kg), CL: 4.9 Lbs. (2.2 kg)
- Power Requirements: Lithium Battery; 8+ hours
- Communications Interface: USB, Ethernet, Wi-Fi
- Expected Operational Life: Indefinite
- Shelf Life: >5 years

Illustrative picture:



Item # 17: Scoop

- Scoop-like sampler made of plastics (PP, PTFE) or metals (Al, stainless steel). Can be equipped with a telescopic rod.
- Dimensions: capacity from 100 ml to 1 000 ml.
- The top of the scoop may be serrated for drawing surface samples.

Item #18: Spill Containment Kit

- PIG® Large Spill Caddy or equivalent
- Absorbs up to 173.2 L, 1 each
- Large wheeled cart
- Holds a mounted PIG HazMat Roll for easy pull-and-tear dispensing; also contains PIG HazMat Chemical Absorbent Socks, Pads, Pillows and PIG PolyPro Wipes for fast cleanup
- High-visibility, mobile spill kit features swing-out doors and flip-top lid for easy access to the chemical spill response supplies

Illustrative picture:



Item # 19: Trowel

- Trowel made from plastics (PP) or metal (stainless steel), usual volume: 100 ml to 800 ml, different handle lengths.
- For sampling of solids such as powders and granulates.
- The sampler is inserted into the material, the sample is taken and then loaded into a wide mouth container or a plastic bag.

Illustrative picture:



Item # 20: Various boxes/containers

- Assorted disposable specimen container kit
- Labdepotinc or equivalent
- Assorted disposable specimen container kit containing 100 total pieces of white opaque containers as follows: (25) 4 oz, (20) 8 oz, (20) 16 oz, (20) 32 oz, (10) 68 oz and (5) 163 oz.
- White opaque lightweight containers with tight- fitting lids.
- Molded of high density polyethylene, non- breakable and opaque.

Illustrative picture:



Item # 21: Warm water showering facilities

- Trace tape heated PPE decontamination shower with detergent inducer and hose brush
- For outdoor locations exposed to low temperatures, this trace tape heated and insulated shower offers an effective two stage decontamination process. Detergent is

fed to the overhead shower, the user can then utilise the brush on a flexible hose to scrub the PPE during the first stage of the process. Ten spray nozzles are then activated to wash down in the secondary phase. An optional drain sump can be added to help contain the excess contaminated water.

- Hi visibility green panelling constructed from GRP offers chemical, UV and corrosion resistance
- Easy to operate pull lever for instant activation
- Ten high velocity spray nozzles provide a thorough 360° secondary wash down
- When the location is of a temporary nature the unit can be easily sited by a fork lift truck

Illustrative picture:

