**Biosecurity facilities for the UK Overseas Territories**

**An example of an equipment list for Tristan da Cunha**

In December 2020 £45k UK Government funding was secured by the GB Non-native Species Secretariat (NNSS) to buy biosecurity equipment for Tristan da Cunha. Prior to this Tristan had no biosecurity facility and very little biosecurity equipment. However, the Tristan government was keen to strengthen biosecurity and to this end a Biosecurity Manual had been developed, with protocols and procedures for inspection of a range of goods, and biosecurity legislation had been drafted.

The equipment provided allows for elements of pre-border, border and post-border biosecurity:

* Pre-border: the Tristan biosecurity officer in Cape Town will be provided with essential equipment to carry out pre-border checks on vessels and cargo departing to Tristan;
* Border: Main Island will be equipped with inspection and laboratory equipment, and small biosecurity depots will be set-up on the Outer Islands;
* Post-border: the equipment allows for rapid response eradications of invasive weeds.

Below is the list of all the goods purchased, including numbers and costs, as an example of what can be bought for this sum. Note that further equipment is required but this provides sufficient to allow the biosecurity programme to begin. Quotes provided are indicative and should not be taken as an endorsement of the company or brand; others are available. Costs are given in GBP (£ sterling) and are correct as at December 2020.

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| **Item** | **details** | **number** | **cost per unit** | **total cost** | **supplier** | **notes** |
| **Incinerator** |
| Incinerator | i8-20A Animal Incinerator plus spares package | 1 | £11,280.00 | £11,280 | Inciner8 | For biosecurity waste. Can also manage medical waste |
| Shelter | Construction  | 1 | £2,304.69 | £2,304.69 | GTDC[[1]](#footnote-1) | Shelter for incinerator |
|  |  |  |  |   |  |  |
| **Animal quarantine facility** |
| Dog kennel | Double thermal roofed run unit 3.0m x 3.5m deep x 2m high | 1 | £3,904.99 | £3,905 | Buchan's Kennels | Animal quarantine unit |
| Pen cleaning product | Trigene disinfectant 20l in 5l containers | 1 | £153.94 | £153.94 | Scientific Supplies | For animal quarantine facility |
|   |   |   |   |   |   |   |
| **Biosecurity facility** |
| Laptop | Acer Swift SF114-32 | 1 | £395.39 | £395.39 | Acer | For biosecurity inspection room / biosecurity office |
| Flashdrives | 8GB pack of 10 | 1 | £68.00 | £68.00 | Banner | To send and receive photos for identification etc |
| Printer | Canon Pixma MG3650 all in one print/scan/copy | 1 | £87.65 | £87.65 | Canon | For biosecurity inspection room / biosecurity office |
| Printer ink cartridges | x 2 for Canon Pixma printer, plus delivery | 1 | £84.56 | £84.56 | Firstcallinks | For biosecurity inspection room / biosecurity office |
| Laminating pouches | A4 boxes of 100 pouches | 5 | £19.90 | £99.50 | Banner | To seal protocols and guides for field use |
| Compact digital camera | Canon Powershot SX720 HS | 2 | £209.00 | £418.00 | Canon | Field monitoring, sample identification etc |
|   |   |   |   |   |   |   |
| **General biosecurity equipment** |
| Random search selector | Two units: 1 x mains power operated and 1 x battery operated | 2 | £360.00 | £360 | Insight security | To randomly select who is subject to a customs/biosecurity search |
| Stainless steel bench  | 180cm W x 90cm H x 60cm D | 1 | £174.99 | £209.99 | Monster Group |   |
| Eazyzap commercial fly killer  | 16W | 2 | £31.18 | £62.36 | Nisbets | For biosecurity inspection room |
| Eazyzap replacement bulbs  | Pack of 2 | 5 | £12.00 | £60.00 | Nisbets | Bulbs changed every year |
| Magnifying lens and light | Desk mounted | 4 | £145.00 | £580.00 | NHBS[[2]](#footnote-2) | For inspection benches |
| Spare bulbs for magnifying lamp | Standard | 4 | £17.49 | £69.96 | NHBS | For inspection benches |
| Padlock | Heavy Duty Padlock  | 4 | £18.45 | £73.80 | Master Lock | To secure inspection facility, incinerator and animal quarantine unit |
| Storage box | Plastic Garden Storage Box Waterproof 440 Litre | 1 | £79.95 | £79.95 | Garden Storage Designs | Storage of biosecurity equipment on Outer Islands |
| Hygiplas vegetable knife green | 10cm | 4 | £1.09 | £4.36 | Nisbets | For inspecting fruit and vegetables, where they need to be cut |
| Hygiplas vegetable knife green  | 25.5cm | 2 | £9.99 | £19.98 | Nisbets | For inspecting fruit and vegetables, where they need to be cut |
|   |   |   |   |   |   |   |
| **Cleaning equipment** |
| Pressure washer | Stihl RE 130 Pressure Washer | 1 | £246.88 | £246.88 | AWS Landscapes | Cleaning vehicles and machinery etc in Tristan |
| Vacuum cleaner | Stihl SE 62 vacuum cleaner | 1 | £100.00 | £100.00 | AWS Landscapes | Cleaning vehicles and machinery etc in Tristan |
| Vacuum cleaner cleaning brushes | Stihl vehicle cleaning set | 1 | £27.00 | £27.00 | AWS Landscapes | Cleaning vehicles and machinery etc in Tristan |
| Spare bags for vacuum cleaner |   | 20 | £56.88 | £1,137.60 | AWS Landscapes | Cleaning vehicles and machinery etc in Tristan |
| Hose | Hozelock compact hose reel + multi purpose hose | 2 | £29.95 | £59.90 | AWS Landscapes | Cleaning vehicles and machinery etc in Tristan |
| SYR Polypropylene Swing bin Green  |  50ltr | 2 | £19.18 | £38.36 | Nisbets | For biosecurity inspection room and kennels |
| Jantex Bin  |  80ltr | 2 | £61.18 | £122.36 | Nisbets | For biosecurity inspection room and kennels |
| Jantex bin swing lid |   | 2 | £30.58 | £61.16 | Nisbets | For biosecurity inspection room and kennels |
| Jantex soft dustpan and brush set yellow |   | 2 | £1.90 | £3.80 | Nisbets | For biosecurity inspection room and kennels |
| Jantex hygiene broom soft bristle blue  |  12 in | 2 | £7.42 | £14.84 | Nisbets | For biosecurity inspection room and kennels |
| Jantex wooden broom handle |   | 2 | £7.18 | £14.36 | Nisbets | For biosecurity inspection room and kennels |
| Jantex centrefeed blue rolls 2-ply  |  Pack of 6 | 1 | £8.38 | £8.38 | Nisbets | For biosecurity inspection room |
|   |   |   |   |   |   |   |
| **Rapid response - weeds** |
| Knapsack sprayer | Berthould Vermorel 2000 pro-comfort 16l knapsack sprayer | 4 | £130.50 | £522.00 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Berthoud all treatments nozzle kit |   | 2 | £15.61 | £31.22 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| air injector nozzle (Band sprayer) | IDK 120 air injector nozzle | 6 | £4.10 | £24.60 | AWS Landscapes | Rapid response, Tristan and Outer Islands. Width spraying weeds |
| air injector nozzle (spot treatment) | IDK 90 air injector nozzle | 6 | £7.50 | £45.00 | AWS Landscapes | Rapid response, Tristan and Outer Islands. Spot spraying weeds |
| Nozzle mount | Chemlock M-cap Bayonet quick change nozzle mount | 4 | £12.25 | £49.00 | AWS Landscapes | Rapid response, Tristan and Outer Islands. Easy change of nozzles |
| Chemlock dual chemical transport box |   | 1 | £275.00 | £275.00 | AWS Landscapes | Storing pesticides, Tristan |
| Measuring jug | 2.2l calibrated measuring jug | 2 | £9.85 | £19.70 | AWS Landscapes | For mixing pesticides, Tristan and Outer Islands |
| Measuring cylinder | 250ml graduated measuring cylinder | 2 | £14.70 | £29.40 | AWS Landscapes | For mixing pesticides, Tristan and Outer Islands |
| Drip tray | Chemlock multipurpose drip tray for mixing pesticides  | 2 | £48.00 | £96.00 | AWS Landscapes | For mixing pesticides, Tristan and Outer Islands |
| Measuring tape | 100m | 1 | £39.90 | £39.90 | AWS Landscapes | For calculating pesticide dose rates |
| Weed shield  |   | 2 | £21.95 | £43.90 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Berthoud composite telescopic lance  |   | 2 | £36.99 | £73.98 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Berthoud pump service kit |   | 2 | £17.75 | £35.50 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Small pressure sprayer | Universal Plus 3132PG 1.5l pressure sprayer | 2 | £13.65 | £27.30 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
|   |   |   |   |   |   |   |
| **PPE and safety** |
| PPE coverall types 5/6 size XL  | Tyvek 500 Xpert green coveralls | 100 | £7.86 | £786.00 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| PPE coverall types 5/6 size XXL | Tyvek 500 Xpert green coveralls | 100 | £7.86 | £786.00 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Face shields | Chemlock Pro faceshield with anti-mist screen | 2 | £33.50 | £67.00 | AWS Landscapes | For mixing pesticides, Tristan and Outer Islands |
| Respirators | Chemlock series 7000 half mask, ABEK & P3 filters | 4 | £42.67 | £170.68 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Replacement cannisters for respirator | P3 R particulate filter pack of 2 | 10 | £8.20 | £82.00 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Nitrile gloves | Camatril Chemical spray gloves | 200 | £4.22 | £844.00 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Wellington boots | Sievi-light safety wellington boots | 4 | £71.10 | £284.40 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Non-disposable coveralls XL | Chem-Lock Forestry/Amenity 2 piece type 4 spray suit  | 2 | £65.47 | £130.94 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Non-disposable coveralls XXL | Chem-Lock Forestry/Amenity 2 piece type 4 spray suit | 2 | £65.47 | £130.94 | AWS Landscapes | Rapid response, Tristan and Outer Islands |
| Coveralls | Non-spray for general use | 4 | £32.34 | £129.36 | AWS Landscapes | General use |
| Safety helmet | Green | 3 | £6.68 | £20.04 | EVO2 |   |
|   |   |   |   |   |   |   |
| **Laboratory and entomology equipment** |
| Stereo microscope | Motic ST-30C 2LOO | 2 | £159.00 | £318.00 | NHBS | For biosecurity inspection room / biosecurity office |
| Digital microscope | AM3113T Dino-lite 640x480 USB digital | 3 | £212.00 | £636.00 | NHBS | For biosecurity inspection room / biosecurity office, and field use |
| 180ml collecting pot | Pack 100 | 4 | £65.00 | £260.00 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| 60ml collecting pot  | Pack 100 | 4 | £59.00 | £236.00 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Specimen tubes large | Pack 100 | 2 | £37.99 | £75.98 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Specimen tubes medium | Pack 100 | 2 | £28.50 | £57.00 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Specimen tubes small | Pack 100 | 2 | £23.99 | £47.98 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Polythene sample bags | 102x140 mm pack 100 | 2 | £4.99 | £9.98 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Sampling tray | 5l heavy duty  | 4 | £6.50 | £26.00 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Sampling tray | 10l heavy duty | 4 | £10.50 | £42.00 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Pooter | standard | 10 | £3.95 | £39.50 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Insect breeding cage | Bugdorm 24.5x24.5x24.5 mm, nylon | 3 | £37.99 | £113.97 | NHBS | For biosecurity inspection room / biosecurity office |
| Insect breeding cage | Bugdorm 32.5x32.5x32.5 mm, nylon | 2 | £40.50 | £81.00 | NHBS | For biosecurity inspection room / biosecurity office |
| Transport cages | Pop-up port-a-bug cages | 4 | £4.99 | £19.96 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Forceps | Storkbill short blunt forceps | 10 | £8.99 | £89.90 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Forceps | Storkbill short pointed forceps | 10 | £14.95 | £149.50 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Forceps | Straight tip tweezers | 10 | £5.99 | £59.90 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Brushes | Specimen brush | 10 | £1.99 | £19.90 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Hand lens x10 | Opticon 23mm  | 2 | £12.95 | £25.90 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
| Hand lens x15 | Opticon 23mm  | 2 | £14.50 | £29.00 | NHBS | Collecting samples, Cape Town, Tristan and Outer Islands |
|   |   |   |   |   |   |   |
| **Field equipment** |
| Hand torch | iProtec Night Commander | 4 | £34.99 | £139.96 | NHBS | Inspection, Tristan and Outer Islands |
| Head torch | Petzl 300 lumensLED Lenser H7.2 | 2 | £59.00 | £118.00 | NHBS | Inspection, Tristan and Outer Islands |
| Butterfly net | Standard | 2 | £20.58 | £41.16 | NHBS | Collecting samples, Tristan and Outer Islands |
| Binoculars, pocket | Hawke optics nature-trek binoculars 10x42 | 2 | £112.00 | £224.00 | NHBS | Rapid response, Tristan and Outer Islands |
| Binoculars  | Hawke optics frontier HD 8x42 | 2 | £229.00 | £458.00 | NHBS | Rapid response, Tristan and Outer Islands |
| Weather writer | A4 standard | 6 | £34.50 | £207.00 | NHBS | Inspection and field sampling, Cape Town, Tristan and Outer Islands |
| Safety neck cord for weather writer  | Standard | 6 | £7.99 | £47.94 | NHBS | Inspection and field sampling, Cape Town, Tristan and Outer Islands |
| Seawriter pencil | Pack of 20 | 1 | £22.50 | £22.50 | NHBS | Inspection and field sampling, Cape Town, Tristan and Outer Islands |
| Waterproof notebook | A6 pack of 10 | 1 | £74.99 | £74.99 | NHBS | Inspection and field sampling, Cape Town, Tristan and Outer Islands |
| Boot cleaning station - fixed | Boot Cleaner/Wiper with scrapers | 1 | £144.99 | £144.99 | Marko Homewares | Biosecurity for workers departing Tristan, based at Tristan |
| Spare brushes for boot cleaning station | Boot wiper replacement brushes set of 4 | 1 | £39.96 | £39.96 | Marko Homewares | Biosecurity for workers departing Tristan, based at Tristan |
| Boot cleaning station - portable | Work Boot Cleaner Heavy Duty Bristles  | 2 | £13.99 | £27.98 | Marko homewares | Biosecurity departing/returning Tristan to Outer Islands, based on boat |
| Disinfectant for boot cleaning stations | Virkon S Broad Spectrum Virucidal Disinfectant Tablets, Pack of 50  | 1 | £21.95 | £21.95 | Virkon | Biosecurity departing Tristan to Outer Islands |
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| **Vessel inspection equipment** |
| VHF radio | Standard Horizon HX890E DSC Handheld VHF radio | 4 | £189.95 | £759.80 | Marine Superstore | Vessel inspections, for biosecurity team |
| VHF radio base | Icom M330GE Fixed VHF radio with GPS | 1 | £199.95 | £199.95 | Marine Superstore | Vessel inspections, for biosecurity team |
| Dry bag | 55L bute dry bags | 4 | £27.99 | £111.96 | Marine Superstore | Vessel inspections, for biosecurity team |
| Life jacket | Spinlock Deckvest Lite | 4 | £119.95 | £479.80 | Marine Superstore | Vessel inspections, for biosecurity team |
| Heavy duty torch | Osculati Extreme spotlight torch | 2 | £24.95 | £49.90 | Marine Superstore | Vessel inspections, for biosecurity team |
| Weather jacket | Musto MPX Gore-Tex Pro Offshore Jacket 2020 XL | 2 | £419.95 | £840 | Marine Superstore | Vessel inspections, for biosecurity team |
| Weather jacket | Musto MPX Gore-Tex Pro Offshore Jacket 2020 XXL | 2 | £419.95 | £840 | Marine Superstore | Vessel inspections, for biosecurity team |
| Weather trousers | Musto MPX Gore-Tex Pro Offshore Trousers 2020 XL | 3 | £340.00 | £1,020 | Marine Superstore | Vessel inspections, for biosecurity team |
| Weather trousers | Musto MPX Gore-Tex Pro Offshore Trousers 2020 XXL | 1 | £340.00 | £340 | Marine Superstore | Vessel inspections, for biosecurity team |
|   |   |   |   |   |   |   |
| **Shipping** |   |   |   | £9,600.00 | Richard James International and Government of TdC |  UK to Tristan via Cape Town |
| **TOTAL** |  |  |  | **£45,042.73** |   |   |

1. Government of Tristan da Cunha [↑](#footnote-ref-1)
2. Natural History Book Society [↑](#footnote-ref-2)