

Schedule 1 - Definitions of Contract

Articles	means the Contractor Deliverables (goods and/or the services), including Packaging (and Certificate(s) of Conformity and supplied in accordance with any QA requirements if specified) which the Contractor is required to provide under the Contract in accordance with Schedule 2 (Schedule of Requirements), but excluding incidentals outside Schedule 2 (Schedule of Requirements) such as progress reports. (This definition only applies when DEFCONs are added to these Conditions);
Authority	means the Secretary of State for Defence acting on behalf of the Crown;
Authority's Representative(s)	shall be those person(s) defined in Schedule 3 (Contract Data Sheet) who will act as the Authority's Representative(s) in connection with the Contract. Where the term "Authority's Representative(s)" in the Conditions is immediately followed by a functional description in brackets, the appropriate Authority's Representative(s) shall be the designated person(s) for the purposes of Condition 7;
Business Day	means 09:00 to 17:00 Monday to Friday, excluding public and statutory holidays;
Central Government Body	a body listed in one of the following sub-categories of the Central Government classification of the Public Sector Classification Guide, as published and amended from time to time by the Office for National Statistics: <ul style="list-style-type: none">a. Government Department;b. Non-Departmental Public Body or Assembly Sponsored Public Body (advisory, executive, or tribunal);c. Non-Ministerial Department; ord. Executive Agency;
Collect	means pick up the Contractor Deliverables from the Consignor. This shall include loading, and any other specific arrangements, agreed in accordance with Clause 28.c and Collected and Collection shall be construed accordingly;
Commercial Packaging	means commercial Packaging for military use as described in Def Stan 81-041 (Part 1)
Conditions	means the terms and conditions set out in this document;
Consignee	means that part of the Authority identified in Schedule 3 (Contract Data Sheet) to whom the Contractor Deliverables are to be Delivered or on whose behalf they are to be Collected at the address specified in Schedule 3 (Contract Data Sheet) or such other part of the Authority as may be instructed by the Authority by means of a Diversion Order;
Consignor	means the name and address specified in Schedule 3 (Contract Data Sheet) from whom the Contractor Deliverables will be dispatched or Collected;
Contract	means the Contract including its Schedules and any amendments agreed by the Parties in accordance with Condition 6 (Formal Amendments to the Contract);
Contract Price	means the amount set out in Schedule 2 (Schedule of Requirements) to be paid (inclusive of Packaging and exclusive of any applicable VAT) by the Authority to the Contractor, for the full and proper performance by the Contractor of its obligations under the Contract.

Contractor	means the person who, by the Contract, undertakes to supply the Contractor Deliverables, for the Authority as is provided by the Contract. Where the Contractor is an individual or a partnership, the expression shall include the personal representatives of the individual or of the partners, as the case may be, and the expression shall also include any person to whom the benefit of the Contract may be assigned by the Contractor with the consent of the Authority;
Contractor Commercially Sensitive Information	means the Information listed in the completed Schedule 5 (Contractor's Commercially Sensitive Information Form), which is Information notified by the Contractor to the Authority, which is acknowledged by the Authority as being commercially sensitive;
Contractor Deliverables	means the goods and/or the services, including Packaging (and Certificate(s) of Conformity and supplied in accordance with any QA requirements if specified) which the Contractor is required to provide under the Contract;
Control	<p>means the power of a person to secure that the affairs of the Contractor are conducted in accordance with the wishes of that person:</p> <ul style="list-style-type: none"> a. by means of the holding of shares, or the possession of voting powers in, or in relation to, the Contractor; or b. by virtue of any powers conferred by the constitutional or corporate documents, or any other document, regulating the Contractor; <p>and a change of Control occurs if a person who Controls the Contractor ceases to do so or if another person acquires Control of the Contractor;</p>
CPET	means the UK Government's Central Point of Expertise on Timber, which provides a free telephone helpline and website to support implementation of the UK Government timber procurement policy;
Crown Use	in relation to a patent means the doing of anything by virtue of Sections 55 to 57 of the Patents Act 1977 which otherwise would be an infringement of the patent and in relation to a Registered Design has the meaning given in paragraph 2A(6) of the First Schedule to the Registered Designs Act 1949;
Dangerous Goods	<p>means those substances, preparations and articles that are capable of posing a risk to health, safety, property or the environment which are prohibited by regulation, or classified and authorised only under the conditions prescribed by the:</p> <ul style="list-style-type: none"> a. Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG) (as amended 2011); b. European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR); c. Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID); d. International Maritime Dangerous Goods (IMDG) Code; e. International Civil Aviation Organisation (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air; f. International Air Transport Association (IATA) Dangerous Goods Regulations;
DBS Finance	means Defence Business Services Finance, at the address stated in Schedule 3 (Contract Data Sheet);
DEFFORM	means the MOD DEFFORM series which can be found at https://www.aof.mod.uk ;
DEF STAN	means Defence Standards which can be accessed at

Deliver	means hand over the Contractor Deliverables to the Consignee. This shall include unloading, and any other specific arrangements, agreed in accordance with Condition 28 and Delivered and Delivery shall be construed accordingly;
Delivery Date	means the date as specified in Schedule 2 (Schedule of Requirements) on which the Contractor Deliverables or the relevant portion of them are to be Delivered or made available for Collection;
Denomination of Quantity (D of Q)	means the quantity or measure by which an item of material is managed;
Design Right(s)	has the meaning ascribed to it by Section 213 of the Copyright, Designs and Patents Act 1988;
Diversion Order	means the Authority's written instruction (typically given by MOD Form 199) for urgent Delivery of specified quantities of Contractor Deliverables to a Consignee other than the Consignee stated in Schedule 3 (Contract Data Sheet);
Effective Date of Contract	means the date specified on the Authority's acceptance letter;
Evidence	means either: a. an invoice or delivery note from the timber supplier or Subcontractor to the Contractor specifying that the product supplied to the Authority is FSC or PEFC certified; or b. other robust Evidence of sustainability or FLEGT licensed origin, as advised by CPET;
Firm Price	means a price (excluding VAT) which is not subject to variation;
FLEGT	means the Forest Law Enforcement, Governance and Trade initiative by the European Union to use the power of timber-consuming countries to reduce the extent of illegal logging;
Government Furnished Assets (GFA)	is a generic term for any MOD asset such as equipment, information or resources issued or made available to the Contractor in connection with the Contract by or on behalf of the Authority;
Hazardous Contractor Deliverable	means a Contractor Deliverable or a component of a Contractor Deliverable that is itself a hazardous material or substance or that may in the course of its use, maintenance, disposal, or in the event of an accident, release one or more hazardous materials or substances and each material or substance that may be so released;
Independent Verification	means that an evaluation is undertaken and reported by an individual or body whose organisation, systems and procedures conform to "ISO Guide 65:1996 (EN 45011:1998) General requirements for bodies operating product certification systems or equivalent", and who is accredited to audit against forest management standards by a body whose organisation, systems and procedures conform to "ISO 17011: 2004 General Requirements for Providing Assessment and Accreditation of Conformity Assessment Bodies or equivalent";
Information	means any Information in any written or other tangible form disclosed to one Party by or on behalf of the other Party under or in connection with the Contract;
Issued Property	means any item of Government Furnished Assets (GFA), including

	any materiel issued or otherwise furnished to the Contractor in connection with the Contract by or on behalf of the Authority;
Legal and Sustainable	means production and process methods, also referred to as timber production standards, as defined by the document titled "UK Government Timber Production Policy: Definition of legal and sustainable for timber procurement". The edition current on the day the Contract documents are issued by the Authority shall apply;
Legislation	means in relation to the United Kingdom any Act of Parliament, any subordinate legislation within the meaning of section 21 of the Interpretation Act 1978, or any exercise of Royal Prerogative;
Military Level Packaging (MLP)	means Packaging that provides enhanced protection in accordance with Def Stan 81-041 (Part 1), beyond that which Commercial Packaging normally provides for the military supply chain;
Military Packager Approval Scheme (MPAS)	is a MOD sponsored scheme to certify military Packaging designers and register organisations, as capable of producing acceptable Services Packaging Instruction Sheet (SPIS) designs in accordance with Defence Standard (Def Stan) 81-041 (Part 4);
Military Packaging Level (MPL)	shall have the meaning described in Def Stan 81-041 (Part 1);
MPAS Registered Organisation	is a packaging organisation having one or more MPAS Certificated Designers capable of Military Level designs. A company capable of both Military Level and commercial Packaging designs including MOD labelling requirements;
MPAS Certificated Designer	shall mean an experienced Packaging designer trained and certified to MPAS requirements;
NATO	means the North Atlantic Treaty Organisation which is an inter-governmental military alliance based on the North Atlantic Treaty which was signed on 4 April 1949;
Notices	shall mean all Notices, orders, or other forms of communication required to be given in writing under or in connection with the Contract;
Overseas	shall mean non UK or foreign;
Packaging	Verb. The operations involved in the preparation of materiel for; transportation, handling, storage and Delivery to the user; Noun. The materials and components used for the preparation of the Contractor Deliverables for transportation and storage in accordance with the Contract;
Packaging Design Authority (PDA)	shall mean the organisation that is responsible for the original design of the Packaging except where transferred by agreement. The PDA shall be identified in the Contract, see Annex A to Schedule 3 (Appendix – Addresses and Other Information), Box 3;
Parties	means the Contractor and the Authority, and Party shall be construed accordingly;
Primary Packaging Quantity (PPQ)	means the quantity of an item of material to be contained in an individual package, which has been selected as being the most suitable for issue(s) to the ultimate user, as described in Def Stan 81-041 (Part 1);
Recycled Timber	means recovered wood that prior to being supplied to the Authority had an end use as a standalone object or as part of a structure.

Recycled Timber covers:

- a. pre-consumer reclaimed wood and wood fibre and industrial by-products;
 - b. post-consumer reclaimed wood and wood fibre, and driftwood;
 - c. reclaimed timber abandoned or confiscated at least ten years previously;
- it excludes sawmill co-products;

Safety Data Sheet

has the meaning as defined in the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulations 2007 (as amended);

Schedule of Requirements

means Schedule 2 (Schedule of Requirements), which identifies, either directly or by reference, Contractor Deliverables to be provided, the quantities and dates involved and the price or pricing terms in relation to each Contractor Deliverable;

Short-Rotation Coppice

means a specific management regime whereby the poles of trees are cut every one to two years and which is aimed at producing biomass for energy. It is exempt from the UK Government timber procurement policy. For avoidance of doubt, Short-Rotation Coppice is not conventional coppice, which is subject to the timber policy;

Specification

means the description of the Contractor Deliverables, including any specifications, drawings, samples and / or patterns, and shall include any document or item which, individually or collectively is referred to in Schedule 2 (Schedule of Requirements). The Specification forms part of the Contract and all Contractor Deliverables to be supplied by the Contractor under the Contract shall conform in all respects with the Specification;

STANAG 4329

means the publication NATO Standard Bar Code Symbolologies which can be sourced at <https://www.dstan.mod.uk/faqs.html>;

Subcontractor

means any subcontractor engaged by the Contractor or by any other subcontractor of the Contractor at any level of subcontracting to provide Contractor Deliverables wholly or substantially for the purpose of performing (or contributing to the performance of) the whole or any part of this Contract and 'Subcontract' shall be interpreted accordingly;

Timber and Wood-Derived Products

means timber (including Recycled Timber and Virgin Timber but excluding Short-Rotation Coppice) and any products that contain wood or wood fibre derived from those timbers. Such products range from solid wood to those where the manufacturing processes obscure the wood element;

Transparency Information

means the content of this Contract in its entirety, including from time to time agreed changes to the Contract, and details of any payments made by the Authority to the Contractor under the Contract;

Virgin Timber

means Timber and Wood-Derived Products that do not include Recycled Timber.

Annex A to Schedule 1 – Additional Definitions of Contract iaw. Conditions 44 - 46 (Additional Conditions)

Not used.

Schedule 2 - Schedule of Requirements for Contract No: PA0000000235

For DSTL HELIOS Anechoic Chamber procurement

Contractor Deliverables									
Item Number	MOD Stock Reference No.	Part No. (where applicable)	Specification	Consignee Address Code (full address is detailed in DEFFORM 96)	Packaging Requirements inc. PPQ and DofQ (as detailed in DEFFORM 96)	Delivery Date	Total Qty	Price (£) Ex VAT	
								Per Item	Total inc. Packaging (and Delivery if specified in Schedule 3 (Contract Data Sheet))
1	N/A	N/A	Lot One – Redacted under FOIA exemption Payment of 30% on receipt of PO.	XY	n/a	25/04/2022	1	EA	£193,680.00
2	N/A	N/A	Lot One – Redacted under FOIA exemption On approval of drawings.	XY	n/a	23/05/2022	1	EA	£193,680.00
3	N/A	N/A	Lot One – Redacted under FOIA exemption CPB890-002 Materials delivery and Installation	XY	n/a	11/10/2022	1	EA	£193,680.00
4	N/A	N/A	Lot One – Redacted under FOIA exemption CPB890-003 Certification and Handover	XY	n/a	25/10/2022	1	EA	£64,560.00
5	N/A	N/A	Lot Two – Redacted under FOIA exemption Redacted under FOIA exemption Redacted under FOIA exemption – Payment of 30% on receipt of PO	XY	n/a	25/04/2022	1	EA	£178,602.00
6	N/A	N/A	Lot Two – Redacted under FOIA exemption Redacted under FOIA exemption Redacted under FOIA exemption CPB890-004 On approval of drawings.	XY	n/a	23/05/2022	1	EA	£178,602.00

7	N/A	N/A	Lot Two - [Redacted under FOIA exemption] [Redacted] [Redacted] CPB890-005 Materials delivery & Installation	XY	n/a	11/10/2022	1	EA	£178,602.00
8	N/A	N/A	Lot Two - [Redacted under FOIA exemption] [Redacted] [Redacted] CPB890-006 Certification and Handover	XY	n/a	25/10/2022	1	EA	£59,534.00
9	N/A	N/A	Lot Three - [Redacted under FOIA exemption] Payment of 30% on receipt of PO and acceptance of updated project GANTT chart.	XY	n/a	25/04/2022	1	EA	£37,575.00
10	N/A	N/A	Lot Three - [Redacted under FOIA exemption] CB890-007 Materials delivery & Installation	XY	n/a	23/05/2022	1	EA	£37,575.00
11	N/A	N/A	Lot Three - [Redacted under FOIA exemption] CB890-008 Progress Report	XY	n/a	11/10/2022	1	EA	£37,575.00
12	N/A	N/A	Lot Three - [Redacted under FOIA exemption] CB890-009 Materials delivery & Installation	XY	n/a	25/10/2022	1	EA	£12,525.00
Total Price									£1,366,190.00

Item Number	Consignee Address (XY code only)
1	Dstl Porton Down, [Redacted under FOIA exemption], Salisbury, Wiltshire, SP4 0JQ, UK

COST BREAKDOWN (by Lot)

Lot One – [Redacted under FOIA exemption] Large Anechoic Chamber

Item No.	Description	Cost (ex VAT)
CPB890-002	[Redacted under FOIA exemption] Large Anechoic Chamber Materials delivery and installation (Core Specification)	£ 530,300.00
1	Extended Field Uniformity Testing to 18GHz (additional cost, replaces 6GHz test included in baseline)	£ 750.00
3a	3142E BiConiLog Antenna - 30MHz - 6GHz	£ 7,400.00
3b	3115 Double Ridge Wave Guide Horn Antenna - 750MHz - 18GHz	£ 5,950.00
4c	Power Amplifier - 700MHz - 4.2GHz, 250W	£ 48,300.00
5 (originally Lot 2)	EMQuest Antenna Measurement Software (added as Option from Lot two)	£ 35,000.00
8b	VisionTRX Video Monitoring Software Option 8b - Level II	£ 15,000.00
9	Absorber Trolley	£ 2,900.00

Lot Two - Room 800-106 High Power Anechoic & Back-to-Back Connected Screen

Item No.	Description	Cost (ex VAT)
CPB890-005	[Redacted under FOIA exemption] High Power Anechoic Chamber (Core specification)	£ 422,980.00
CPB890-005	[Redacted under FOIA exemption] Back-to-Back Connected Screen Chambers (Core Specification)	£ 118,710.00
1	Extended Field Uniformity Testing to 18 GHz (additional cost replacing 6 GHz test included in baseline offer)	£ 750.00
3	Innco MA 2000-XP-ET Compact Antenna Mast	£ 16,500.00
5	EMQuest Antenna Measurement Software	£ 33,500.00
9	Absorber Storage Trolley	£ 2,900.00

Lot 3 - Room G01 RF Tube Chamber

Item No.	Description	Cost
CPB890-009	Room G01 RF Tube Chamber Materials delivery and installation (Core specification)	£ 79,470.00
CPB890-009	Room G01 RF Tube Chamber - positioner (supplied already installed in chamber) – Core specification.	£ 45,780.00

Contract GANTT schedule:



FTFox-Pjxxx-DSTL UK- All Items Revision A + Accelerated, 20220421



Redacted under FOIA exemption

Schedule 3 – Contract Data Sheet

General Conditions

Condition 2 – Duration of Contract:

The Contract expiry date shall be: 21/11/2023 or on completion of the final deliverable (including warranty period), whichever is the latter

Condition 4 – Governing Law:

Contract to be governed and construed in accordance with:

English Law ☒

Scots Law ☐ clause 4.d shall apply (one must be chosen)

Solicitors or other persons based in England and Wales (or Scotland if Scots Law applies) irrevocably appointed for Contractors without a place of business in England (or Scotland, if Scots Law applies) in accordance with Clause 4.g (if applicable) are as follows:

Condition 7 – Authority's Representatives:

The Authority's Representatives for the Contract are as follows:

Commercial: Redacted under FOIA exemption (as per Annex A to Schedule 3 (DEFFORM 111))

Project Manager: Redacted under FOIA exemption (as per Annex A to Schedule 3 (DEFFORM 111))

Condition 18 – Notices:

Notices served under the Contract shall be sent to the following address:

Authority: Redacted under FOIA exemption (as per Annex A to Schedule 3 (DEFFORM 111))

Contractor: TBD

Notices can be sent by electronic mail? ☒ (tick as appropriate)

Condition 19.a – Progress Meetings:

The Contractor shall be required to attend the following meetings:

Lot One - Contract start meeting @ T0, x2 Progress meetings as Site visits@ T0 +28 Weeks (Lot One M2) and T0 + 30 weeks (Lot One M3)

Lot Two - Contract start meeting @ T0, x2 Progress meetings as Site visits@ T0 +28 Weeks (Lot Two M2) and T0 + 30 weeks (Lot Two M3)

Lot Three - Contract start meeting @ T0, x2 Progress meetings as Site visits@ T0 +28 Weeks (Lot Three M2) and T0 + 30 weeks (Lot Three M3)

Meetings shall be held at Dstl Porton Down, Salisbury, Wiltshire, SP4 0JQ, UK unless otherwise agreed with the Authority's Representative (Project Manager).

Condition 19.b – Progress Reports:

The Contractor is required to submit the following Reports:

Lot One Progress report @ T0 + 4 Weeks (Lot One M1)

Lot Two Progress report @ T0 + 4 Weeks (Lot Two M1)

Lot Three Progress report @ T0 + 4 Weeks (Lot Three M1)

Reports shall be Delivered via e-mail to the following address:

Dstl Porton Down, Redacted under FOIA exemption, Salisbury, Wiltshire, SP4 0JQ, UK, FAO: Redacted under FOIA exemption

Supply of Contractor Deliverables**Condition 20 – Quality Assurance:**

Is a Deliverable Quality Plan required for this Contract? ☒ (tick as appropriate)

If required, the Deliverable Quality Plan must be set out as defined in AQAP 2105 and delivered to the Authority (Quality) within 10 Business Days of Contract Award. Once agreed by the Authority the Quality Plan shall be incorporated into the Contract. The Contractor shall remain at all times solely responsible for the accuracy, suitability and applicability of the Deliverable Quality Plan.

Other Quality Assurance Requirements:

n/a

Condition 21 – Marking of Contractor Deliverables:

Special Marking requirements:

UK Official

Condition 23 - Supply of Data for Hazardous Contractor Deliverables, Materials and Substances:

A completed Schedule 6 (Hazardous Contractor Deliverables, Materials or Substance Statement), and if applicable, Safety Data Sheet(s) are to be provided by e-mail with attachments in Adobe PDF or MS WORD format to:

- a) The Authority's Representative (Commercial)
- b) Defence Safety Authority – DSA-DLSR-MovTpt-DGHSIS@mod.uk

to be Delivered no later than one (1) month prior to the Delivery Date for the Contract Deliverable.

Condition 24 – Timber and Wood-Derived Products:

A completed Schedule 7 (Timber and Wood-Derived Products Supplied under the Contract: Data Requirements) is to be provided by e-mail with attachments in Adobe PDF or MS WORD format to the Authority's Representative (Commercial)

to be Delivered by the following date: n/a

Condition 25 – Certificate of Conformity:

Is a Certificate of Conformity required for this Contract? ☒ (tick as appropriate)

Applicable to Line Items: 1, 2 and 3

If required, does the Contractor Deliverables require traceability throughout the supply chain? ☐
(tick as appropriate)

Applicable to Line Items:

Condition 27.b – Delivery by the Contractor:

The following Line Items are to be Delivered by the Contractor:

1, 2 and 3

Special Delivery Instructions:

none

Each consignment is to be accompanied by a DEFFORM 129J.

Condition 27.c - Collection by the Authority:

The following Line Items are to be Collected by the Authority:

n/a

Special Delivery Instructions:

n/a

Each consignment is to be accompanied by a DEFFORM 129J.

Consignor details (in accordance with Condition 27.c.(4)):

Line Items: Address:

Line Items: Address:

Consignee details (in accordance with Condition 22):

Line Items: Address:

Line Items: Address:

Condition 29 – Rejection:

The default time limit for rejection of the Contractor Deliverables is thirty (30) days unless otherwise specified here:

The time limit for rejection shall be 30 Business Days.

Condition 31 – Self-to-Self Delivery:

Self-to-Self Delivery required? ☐ (tick as appropriate)

If required, Delivery address applicable:

Pricing and Payment**Condition 34 – Contract Price:**

All Schedule 2 line items shall be FIRM Price other than those stated below:

Line Items Clause 46. refers

Termination**Condition 41 – Termination for Convenience:**

The Notice period for terminating the Contract shall be twenty (20) days unless otherwise specified here:

The Notice period for termination shall be Business Days

Other Addresses and Other Information (forms and publications addresses and official use information)

See Annex A to Schedule 3 (DEFFORM 111)

Schedule 3
Annex A

DEFFORM 111

(Edn 07/21)

Appendix - Addresses and Other Information

1. Commercial Officer

Name: [Redacted under FOIA exemption]

Address: Dstl Porton Down, Bldg 5, Salisbury, Wiltshire, SP4 0JQ, UK

Email: [Redacted under FOIA exemption]

8. Public Accounting Authority

1. Returns under DEFCON 694 (or SC equivalent) should be sent to DBS Finance ADMT – Assets In Industry 1, Level 4 Piccadilly Gate, Store Street, Manchester, M1 2WD
☎ 44 (0) 161 233 5397

2. For all other enquiries contact DES Fin FA-AMET Policy, Level 4 Piccadilly Gate, Store Street, Manchester, M1 2WD
☎ 44 (0) 161 233 5394

2. Project Manager, Equipment Support Manager or PT Leader
(from whom technical information is available)

Name: [Redacted under FOIA exemption]

Address Dstl Porton Down, Bldg 5, Salisbury, Wiltshire, SP4 0JQ, UK

Email: [Redacted under FOIA exemption]

9. Consignment Instructions

The items are to be consigned as follows:

Dstl Porton Down, [Redacted under FOIA exemption], Salisbury, Wiltshire, SP4 0JQ, UK

PLEASE NOTE DELIVERIES ARE NOT ACCEPTED IN DSTL STORES AFTER 1600hrs.

Delivery drivers must carry some form of identification, (e.g. Credit card, drivers licence etc).

Access to the Dstl site may not be allowed, if site clearance has not previously been obtained and we do not have an escort available. Deliveries to Dstl Porton Down using vehicles in excess of 15 tonnes gross weight should be made via the A30 road, and not through the Porton village.

3. Packaging Design Authority

Organisation & point of contact:

(Where no address is shown please contact the Project Team in Box 2)

10. Transport. The appropriate Ministry of Defence Transport Offices are:

A. DSCOM. DE&S, DSCOM, MoD Abbey Wood, Cedar 3c, Mail Point 3351, BRISTOL BS34 8JH

Air Freight Centre

IMPORTS ☎ 030 679 81113 / 81114 Fax 0117 913 8943

EXPORTS ☎ 030 679 81113 / 81114 Fax 0117 913 8943

Surface Freight Centre

IMPORTS ☎ 030 679 81129 / 81133 / 81138 Fax 0117 913 8946

EXPORTS ☎ 030 679 81129 / 81133 / 81138 Fax 0117 913 8946

B. JSCS

JSCS Helpdesk No. 01869 256052 (select option 2, then option 3)

JSCS Fax No. 01869 256837

Users requiring an account to use the MOD Freight Collection Service should contact UKStratCom-DefSp-RAMP@mod.gov.uk in the first instance.

4. (a) Supply / Support Management Branch or Order Manager:
Branch/Name:

Tel No:

(b) U.I.N.

5. Drawings/Specifications are available from

[Redacted under FOIA exemption]

11. The Invoice Paying Authority

Ministry of Defence ☎ 0151-242-2000

DBS Finance

Walker House, Exchange Flags Fax: 0151-242-2809

Liverpool, L2 3YL

Website is:

<https://www.gov.uk/government/organisations/ministry-of-defence/about/procurement#invoice-processing>

6. INTENTIONALLY BLANK

12. Forms and Documentation are available through *:

Ministry of Defence, Forms and Pubs Commodity Management
PO Box 2, Building C16, C Site

Lower Arncott

Bicester, OX25 1LP (Tel. 01869 256197 Fax: 01869 256824)

Applications via fax or email: DESLCSLs-OpsFormsandPubs@mod.uk

1. Quality Assurance Representative:

Commercial staff are reminded that all Quality Assurance requirements should be listed under the General Contract Conditions.

AQAPS and **DEF STANs** are available from UK Defence Standardization, for access to the documents and details of the helpdesk visit <http://dstan.gateway.isg-r.r.mil.uk/index.html> [intranet] or <https://www.dstan.mod.uk/> [extranet, registration needed].

***NOTE**

1. Many **DEFCONs** and **DEFFORMs** can be obtained from the MOD Internet Site:

<https://www.aof.mod.uk/aofcontent/tactical/toolkit/index.htm>

2. If the required forms or documentation are not available on the MOD Internet site requests should be submitted through the Commercial Officer named in Section 1.

Schedule 4 - Contract Change Control Procedure (i.a.w. clause 6.d) for Contract No: PA0000000235

Authority Changes

1. The Authority shall be entitled to propose any change to the Contract (a "Change") or (subject to Clause 2) Changes in accordance with this Schedule 4.
2. Nothing in this Schedule shall operate to prevent the Authority from specifying more than one Change in any single proposal, provided that such changes are related to the same or similar matter or matters.

Notice of Change

3. If the Authority wishes to propose a Change or Changes, it shall serve a written notice (an "Authority Notice of Change") on the Contractor.
4. The Authority Notice of Change shall set out the Change(s) proposed by the Authority in sufficient detail to enable the Contractor to provide a written proposal (a "Contractor Change Proposal") in accordance with clauses 7 to 9 (inclusive).
5. The Contractor may only refuse to implement a Change or Changes proposed by the Authority, if such change(s):

- a. would, if implemented, require the Contractor to deliver any Contractor Deliverables under the Contract in a manner that infringes any applicable law relevant to such delivery; and/or
- b. would, if implemented, cause any existing consent obtained by or on behalf of the Contractor in connection with their obligations under the Contract to be revoked (or would require a new necessary consent to be obtained to implement the Change(s) which, after using reasonable efforts, the Contractor has been unable to obtain or procure and reasonably believes it will be unable to obtain or procure using reasonable efforts); and/or
- c. would, if implemented, materially change the nature and scope of the requirement (including its risk profile) under the Contract;

and:

- d. the Contractor notifies the Authority within 10 (ten) Business Days (or such longer period as shall have been agreed in writing by the parties) after the date of the Authority Notice of Change that the relevant proposed Change or Changes is/are a Change(s) falling within the scope of Clauses 5.a, 5.b and/or 5.c providing written evidence for the Contractor's reasoning on the matter; and

- e. further to such notification:

- (1) either the Authority notifies the Contractor in writing that the Authority agrees, or (where the Authority (acting reasonably) notifies the Contractor that the Authority disputes the Contractor's notice under Clause 5.d) it is determined in accordance with Condition 40 (Dispute Resolution), that the relevant Change(s) is/are a Change(s) falling within the scope of Clauses 5.a, 5.b and/or 5.c; and
- (2) (where the Authority either agrees or it is so determined that the relevant Change(s) is/are a Change(s) falling within the scope of Clauses 5.a, 5.b and/or 5.c) the Authority fails to make sufficient adjustments to the relevant Authority Notice of Change (and issue a revised Authority Notice of Change) to remove the Contractor's grounds for refusing to implement the relevant Change under Clauses 5.a, 5.b and/or 5.c within 10 (ten) Business Days (or such longer period as shall have been agreed in writing by the parties) after:
 - i) the date on which the Authority notifies in writing the Contractor that the Authority agrees that the relevant Change(s) is/are a Change(s) falling within the scope of Clauses 5.a, 5.b and/or 5.c); or
 - ii) the date of such determination.

6. The Contractor shall at all times act reasonably, and shall not seek to raise unreasonable objections, in respect of any such adjustment.

Contractor Change Proposal

7. As soon as practicable, and in any event within:

a. (where the Contractor has not notified the Authority that the relevant Change or Changes is/are a Change(s) falling within the scope of Clauses 5.a, 5.b and/or 5.c in accordance with Clause 5) fifteen (15) Business Days (or such other period as the Parties agree (acting reasonably) having regard to the nature of the Change(s)) after the date on which the Contract shall have received the Authority Notice of Change; or

b. (where the Contractor has notified the Authority that the relevant Change or Changes is/are a Change(s) falling within the scope of Clauses 5.a, 5.b and/or 5.c in accordance with Clause 5 and:

(1) the Authority has agreed with the Contractor's conclusion so notified or it is determined under Condition 40 (Dispute Resolution) that the relevant Change(s) is/are a Change(s) falling within the scope of Clauses 5.a, 5.b and/or 5.c and the Authority has made sufficient adjustments to the relevant Authority Notice of Change (and issued a revised Authority Notice of Change(s)) to remove the Contractor's grounds for refusing to implement the relevant Change(s) under Clauses 5.a, 5.b and/or 5.c) fifteen (15) Business Days (or such other period as the parties shall have agreed (both parties acting reasonably) having regard to the nature of the Change(s)) after the date on which the Contractor shall have received such revised Authority Notice of Change; or

(2) the Authority has disputed such conclusion and it has been determined in accordance with Condition 40 (Dispute Resolution) that the relevant Change(s) is/are not a Change(s) falling within the scope of Clauses 5.a, 5.b and/or 5.c) fifteen (15) Business Days (or such other period as the parties shall have agreed (both parties acting reasonably) having regard to the nature of the Change(s)) after the date of such determination,

the Contractor shall deliver to the Authority a Contractor Change Proposal. For the avoidance of doubt, the Contractor shall not be obliged to deliver to the Authority a Contractor Change Proposal where the Contractor notifies the Authority, and the Authority agrees or it is determined further to such notification in accordance with Clause 5, that the relevant Change or Changes is/are a Change(s) falling within the scope of Clauses 5.a, 5.b and/or 5.c.

8. The Contractor Change Proposal shall comprise in respect of each and all Change(s) proposed:

- a. the effect of the Change(s) on the Contractor's obligations under the Contract;
- b. a detailed breakdown of any costs which result from the Change(s);
- c. the programme for implementing the Change(s);
- d. any amendment required to this Contract as a result of the Change(s), including, where appropriate, to the Contract Price; and
- e. such other information as the Authority may reasonably require.

9. The price for any Change(s) shall be based on the prices (including rates) already agreed for the Contract and shall include, without double recovery, only such charges that are fairly and properly attributable to the Change(s).

Contractor Change Proposal – Process and Implementation

10. As soon as practicable after the Authority receives a Contractor Change Proposal, the Authority shall:

- a. evaluate the Contractor Change Proposal; and
- b. where necessary, discuss with the Contractor any issues arising (and (in relation to a Change(s) proposed by the Authority) following such discussions the Authority may modify the Authority Notice of Change) and the Contractor shall as soon as practicable, and in any event not more than ten (10) Business Days (or such other period as the Parties shall have agreed in writing) after receipt of such modification, submit an amended Contractor Change Proposal.

11. As soon as practicable after the Authority has evaluated the Contractor Change Proposal (amended as necessary) the Authority shall:

- a. either indicate its acceptance of the Change Proposal by issuing an amendment to the Contract in accordance with Condition 6 (Formal Amendments to the Contract), whereupon the Contractor shall promptly issue to the Authority the Contractor's DEFFORM 10B indicating their unqualified acceptance of such amendment in accordance with, and otherwise discharge their obligations under, such Condition and implement the relevant Change(s) in accordance with such proposal; or
- b. serve Notice on the Contractor rejecting the Contractor Change Proposal and

withdrawing (where issued in relation to a Change or Changes proposed by the Authority) the Authority Notice of Change (in which case such notice of change shall have no further effect).

12. If the Authority rejects the Contractor Change Proposal, it shall not be obliged to give its reasons for such rejection.

13. The Authority shall not be liable to the Contractor for any additional work undertaken or expense incurred in connection with the implementation of any Change(s), unless a Contractor Change Proposal has been accepted by the Authority in accordance with Clause 11.a and then subject only to the terms of the Contractor Change proposal so accepted.

Contractor Changes

14. If the Contractor wishes to propose a Change or Change(s), they shall serve a Contractor Change Proposal on the Authority. Such proposal shall be prepared and reviewed in accordance with and otherwise be subject to the provisions of Clauses 8 to 13 (inclusive).

Schedule 5 - Contractor's Commercially Sensitive Information Form (i.a.w. Condition 12) for
Contract No: PA0000000235 (All Lots)

Contract No:	TO BE INSERTED AT CONTRACT AWARD - REF R1000169106 (ALL LOTS)
Description of Contractor's Commercially Sensitive Information:	COMMERCIAL & TECHNICAL PROPOSAL.
Cross Reference(s) to location of sensitive information:	FULL DOCUMENT.
Explanation of Sensitivity:	PROPOSAL INCLUDES COMMERCIAL AND TECHNICAL INFORMATION RELATING TO OUR PRODUCTS & SERVICES.
Details of potential harm resulting from disclosure:	COMPETITIVE ADVANTAGE
Period of Confidence (if applicable):	
Contact Details for Transparency / Freedom of Information matters:	
Name:	Redacted under FOIA exemption
Position:	MANAGING DIRECTOR
Address:	MEKANIKONTIE 1. FI 27510, EURA, FINLAND
Telephone Number:	+ 358 - 2 - 838 - 3300
Email Address:	Redacted under FOIA exemption

Schedule 6 - Hazardous Contractor Deliverables, Materials or Substances Supplied under the Contract: Data Requirements for Contract No: PA0000000235

**Hazardous Contractor Deliverables, Materials or Substances
Statement by the Contractor**

Contract No: PA0000000235

Contract Title: DSTL HELIOS Anechoic Chambers

Contractor: ETS Lindgren Oy

Date of Contract: 22/04/2022

* To the best of our knowledge there are no hazardous Contractor Deliverables, materials or substances to be supplied. ☒

* To the best of our knowledge the hazards associated with materials or substances to be supplied under the Contract are identified in the Safety Data Sheets (Qty:) attached in accordance with Condition 23. ☐

Contractor's Signature

Name: Redacted under FOIA exemption

Job Title: Managing Director

Date: 22 April 2022

* check box (☒) as appropriate

To be completed by the Authority

Domestic Management Code (DMC):

NATO Stock Number:

Contact Name:

Contact Address:

Copy to be forwarded to:

Hazardous Stores Information System (HSIS)
Defence Safety Authority (DSA)
Movement Transport Safety Regulator (MTSR)
Hazel Building Level 1, #H019
MOD Abbey Wood (North)
Bristol BS34 8QW

Schedule 7 - Timber and Wood- Derived Products Supplied under the Contract: Data Requirements for Contract No: PA0000000235

The following information is provided in respect of Condition 24 (Timber and Wood-Derived Products):

Lot One - Redacted under FOIA exemption

Schedule of Requirements item and timber product type	Volume of timber Delivered to the Authority with FSC, PEFC or equivalent evidence	Volume of timber Delivered to the Authority with other evidence	Volume (as Delivered to the Authority) of timber without evidence of compliance with Government Timber Procurement Policy	Total volume of timber Delivered to the Authority under the Contract
FLOOR CHIPBOARD	100%			500kg
FLOOR MDF BOARD	100%			2300kg
FLOOR PLYWOOD	100%			800kg
TIMBER	100%			260kg.

Lot Two - Redacted under FOIA exemption **High Power Anechoic & Back-to-Back Connected Screen**

Schedule of Requirements item and timber product type	Volume of timber Delivered to the Authority with FSC, PEFC or equivalent evidence	Volume of timber Delivered to the Authority with other evidence	Volume (as Delivered to the Authority) of timber without evidence of compliance with Government Timber Procurement Policy	Total volume of timber Delivered to the Authority under the Contract
FLOOR CHIPBOARD	100%			300kg.
FLOOR MDF BOARD	100%			1100kg
FLOOR PLYWOOD	100%			400kg
TIMBER.	100%			1140kg.

Lot Three - Redacted under FOIA exemption RF Tube Chamber

Schedule of Requirements item and timber product type	Volume of timber Delivered to the Authority with FSC, PEFC or equivalent evidence	Volume of timber Delivered to the Authority with other evidence	Volume (as Delivered to the Authority) of timber without evidence of compliance with Government Timber Procurement Policy	Total volume of timber Delivered to the Authority under the Contract
TIMBER UNDER CONSTRUCTION	100%			20kg .

Schedule 8 - Acceptance Procedure (i.a.w. Condition 28) for Contract No: PA0000000235

Progress reports will be reviewed and signed off by Dstl project team. Mid installation inspection will be completed by Dstl project team and compared to the company's timeline provided at ITT stage. Physical handover will be completed by Dstl project team to check requirement has been met.

Deliverables will be tested, calibrated and commissioned by the company to ensure deliverables are fit for purpose and requirements have been met.

Schedule 9 - Statement of Requirement for Contract No: PA00000235

Reference Number	Requisition ID: 1000169106
Version Number	1.6
Date	22/12/2021

1.	Requirement
1.1	Title
	HELIOS Anechoic Chambers
1.2	Summary
	Procure and install two (2) Anechoic chambers, with one (1) Radio Frequency screened chamber and one (1) Radio Frequency Tube (RF Tube) chamber for Counter Terrorism and Security Division (CT&S). The procurement of and early installation of the chambers will de-risk the migration of capabilities from FHD and critically enables timely departure of FHD.
1.3	Background
	Dstl is relocating its capabilities from Fort Halstead to Porton Down and returning the site to its owners. [Redacted under F] is the final construction project at PTN and is a key enabler to the relocation and exit from FHD. Following the construction of [Redacted under F] anechoic and RF screened chambers will need to be installed which are critical to multiple capabilities in CTS. The chambers themselves are critical to ensuring our staff can operate in a safe and secure way by; ensuring operational equipment can be tested without impedance from outside signals, protecting the outside world from interference caused by our equipment and ensuring that Dstl conduct research and operations in a manner compliant with UK legislation (Investigatory Powers Act 2016, Wireless Telegraphy Act 2006).
1.4	Requirement
	<u>All purchases are core requirements</u> Please find the full technical specifications at the bottom of this form, see Annex A Full Specifications.

We have selected Lots for this requirement to ensure we can achieve installation and commissioning in parallel; Lot 1, Lot 2 and Lot 3.

- We require installation from building completion. Access to site for installation is currently expected to become available from 09th June – 14th July. The chambers are to be installed and operational by October 2022. This will include the full commission on all the Lots. Storage facilities on site will only be available from the installation start date.
- All employees working within the building will require BPSS. As this is a new building, there will be many other workers around making the building ready for use.
- We also require the Security Controller point of contacts details on award of contract.

Lot 1:

Redacted under FOIA exemption Large Anechoic Chamber

- Maximum External Dimensions – 9.7m x 6.3m x 5.7m (L x W x H)

Lot 2:

Room **Redacted under FOIA exemption** High Power Anechoic Chamber and Room **Redacted under FOIA exemption** recommended built by the same company as they are in the same room.

Room Redacted under FOIA exemption High Power Anechoic Chamber

- Maximum External Dimension 7.0m x 6.2m x 3.0m (Lx W x H)

Room Redacted under FOIA exemption Two Back-to-Back Connected Screen Rooms

- Maximum external dimension each Screen Room 3m x 3.5m x 3m (W x L x H)

Redacted under FOIA exemption, we can supply a goods elevator within the building. All parts for the below chambers located in room **Redacted under FOIA exemption** need to be smaller than 2.7m x 1.785m x 2.6m (L x W x H) to fit in the goods lift. There are larger side access doors located on the first floor, but this is intended to be a contingency plan only as lifting equipment will be required and will need to be supplied by the winning tender. (Side access at 2.1m x 1.9m (W X H) This option also requires approval from Dstl and may affect the timelines.

Lot 3:

RF Tube Chamber

- External chamber dimensions: Width 1500, Depth 4000, Height 2000 (mm)

This Chamber has to be built off site its location is on the ground floor of the building and can be delivered to the room in one built piece through the access doors.

The FMS company provided by Dstl will be responsible for the building the chambers are within and any service/connection within the room will be FMS responsibility. The winning tender will need to work alongside the FMS company during the commissioning and calibration periods (a full FMS SOR will be provided separately).

Please see the below tables for the maximum anticipated contract value of each Lot.

Lot	Description	Cost	Optimism Bias (10%)	Total Cost
1	Room <small>Redacted under FOIA exemption</small> Anechoic Chamber	£525,000.00	£52,500.00	£577,500.00
2	Room <small>Redacted under FOIA exemption</small> High Power Anechoic Chamber	£415,000.00	£41,500.00	£456,500.00
2	Room <small>Redacted under FOIA exemption</small> Two Back-to-Back Connected Screen Rooms	£150,000.00	£15,000.00	£165,000.00
3	RF Tube Chamber	£150,000.00	£15,000.00	£165,000.00

Lot	Cost
1	£577,500.00
2	£621,500.00
3	£165,000.00

1.5	Options or follow on work
	Not applicable

1.6	Deliverables & Intellectual Property Rights (IPR)						
Ref.	Title	Due by	Format	TRL*	Expected classification (subject to change)	What information is required in the deliverable	IPR DEFCON/ Condition
<u>Lot 1</u> CPB890-001	Room <small>Redacted under FOIA exemption</small> Large Anechoic Chamber Progress Report	4 weeks after contract award	Email to Project manager <small>Redacted under FOIA exemption</small>	n/a	Official	<ul style="list-style-type: none"> Conformation of Material lead times and delivery times into Porton. (30% of Lot 1 to be paid) 	As per SC2 terms and conditions
<u>Lot 1</u> CPB890-002	Room <small>Redacted under FOIA exemption</small> Large Anechoic Chamber Materials delivery and installation	28 weeks after Contract award	Physical inspection of delivery and installation of items	n/a	Official	<ul style="list-style-type: none"> Site Visit (30% of Lot 1 to be paid) 	As per SC2 terms and conditions
<u>Lot 1</u> CPB890-003	Room <small>Redacted under FOIA exemption</small> Large Anechoic Chamber Physical handover	30 weeks after Contract award	Acceptance and handover	n/a	Official	<ul style="list-style-type: none"> Site Visit Fully installed and commissioned chamber being handed to dstl project team. (40% of Lot 1 to be paid) 	As per SC2 terms and conditions

<u>Lot 2</u> CPB890-004	Room <small>Redacted under FOIA exemption</small> High <u>Power Anechoic & Back-to-Back Connected Screen Chamber</u> Progress Report	4 weeks after contract award	Email to Project manager <small>Redacted under FOIA exemption</small>	n/a	Official	<ul style="list-style-type: none"> Conformation of Material lead times and delivery times into Porton. (30% of Lot 1 to be paid) 	As per SC2 terms and conditions
<u>Lot 2</u> CPB890-005	Room <small>Redacted under FOIA exemption</small> High <u>Power Anechoic & Back-to-Back Connected Screen Chamber</u> Materials delivery and installation	28 weeks after Contract award	Physical inspection of delivery and installation of items	n/a	Official	<ul style="list-style-type: none"> Site Visit (30% of Lot 1 to be paid) 	As per SC2 terms and conditions
<u>Lot 2</u> CPB890 - 006	Room <small>Redacted under FOIA exemption</small> High <u>Power Anechoic & Back-to-Back Connected Screen Chamber</u> Physical handover	30 weeks after Contract award	Acceptance and handover	n/a	Official	<ul style="list-style-type: none"> Site Visit Fully installed and commissioned chamber being handed to dstl project team. (40% of Lot 1 to be paid) 	As per SC2 terms and conditions

<u>Lot 3</u> CPB890-007	<u>Room [Redacted under FOIA ex] High Power Anechoic & Back-to-Back Connected Screen Chamber</u> Progress Report	4 weeks after contract award	Email to Project manager [Redacted under FOIA excm] [Redacted] [Redacted]	n/a	Official	<ul style="list-style-type: none"> Conformation of Material lead times and delivery times into Porton. (30% of Lot 1 to be paid) 	As per SC2 terms and conditions
<u>Lot 3</u> CPB890-008	<u>Room [Redacted under FOIA ex] RF Tube Chamber</u> Materials delivery and installation	28 weeks after Contract award	Physical inspection of delivery and installation of items	n/a	Official	<ul style="list-style-type: none"> Site Visit (30% of Lot 1 to be paid) 	As per SC2 terms and conditions
<u>Lot 3</u> CPB890 – 009	<u>Room [Redacted under FOIA ex] RF Tube Chamber</u> Physical handover	30 weeks after Contract award	Acceptance and handover	n/a	Official	<ul style="list-style-type: none"> Site Visit Fully installed and commissioned chamber being handed to dstl project team. (40% of Lot 1 to be paid) 	As per SC2 terms and conditions

***Technology Readiness Level required**

1.7	Standard Deliverable Acceptance Criteria
	Progress report will be reviewed and signed off by Dstl project team. Mid installation inspection will be completed by Dstl project team and compared to the company's timeline provided at ITT stage. Physical handover will be completed by Dstl project team to check requirement has been met.
1.8	Specific Deliverable Acceptance Criteria
	Deliverables will be tested, calibrated and commissioned by the company to ensure deliverables are fit for purpose and requirements have been met.

2.	Quality Control and Assurance
2.1	Quality Control and Quality Assurance processes and standards that must be met by the contractor
	<input checked="" type="checkbox"/> ISO9001 (Quality Management Systems) <input type="checkbox"/> ISO14001 (Environment Management Systems) <input type="checkbox"/> ISO12207 (Systems and software engineering — software life cycle) <input type="checkbox"/> TickITPlus (Integrated approach to software and IT development) <input type="checkbox"/> Other: (Please specify below)
2.2	Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement
	Investigatory Powers Act 2016, Wireless Telegraphy Act 2006 D-2 and D-3 are on the first floor of Redacted under E so the safety aspects of this must be considered on how to get parts for the chambers up to the first floor.

3.	Security	
3.1	Highest security classification	
	Of the work	Official Sensitive
	Of the Deliverables/ Output	Official
3.2	Security Aspects Letter (SAL)	
	Yes If yes, please see SAL reference- 1000169106	
3.3	Cyber Risk Level	
	Not applicable	
3.4	Cyber Risk Assessment (RA) Reference	
	428008297 If stated, this must be completed by the contractor before a contract can be awarded. In accordance with the Supplier Cyber Protection Risk Assessment (RA) Workflow please complete the Cyber Risk Assessment available at https://www.gov.uk/guidance/supplier-cyber-protection-service	

4.	Government Furnished Assets (GFA)				
GFA to be Issued - Yes					
GFA No.	Unique Identifier / Serial No	Description: <i>Classification, type of GFA (GFE for equipment for example), previous MOD Contracts and link to deliverables</i>	Available Date	Issued by	Return Date or Disposal Date (T0+) <i>Please specify which</i>

		Building <small>Redacted</small> plans, official sensitive	On award of contract	Dstl	Disposal of asset on project completion
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1. Annex A Full Specifications

2. A.1 D-1 Room Redacted under FOIA exemption Large Anechoic Chamber

Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



3. A.2 D-2 Room Redacted under FOIA exemption High Power Anechoic Chamber

Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



4. **A.3 D-3 Room**

Redacted under FOIA exemption



Redacted under FOIA exemption



5. A.4 Redacted under FOIA exemption

Anechoic chamber requirements:

- Operating frequency range: 500 MHz – 12 GHz.
- Shielding isolation: <100 dB.
- The external chamber dimensions must not exceed: Width 1500, Height 2000, Depth 4000 mm.
- The usable internal dimensions should be a minimum of Width 750, Height 750, Depth 3000 mm.
- Doors approx. 650 x 650 mm with hinges are required at each end of the chamber which are capable of being interchanged between left hand and right hand opening. The doors should be positioned at a working height for the average height user.
- The internal turntable (see below) should be positioned accordingly so it can be accessed via the external doors, its presence must not impinge on the minimum usable internal dimensions of the chamber.
- Bid must include a wheeled stand suitable to support the chamber, to allow the chamber to be moved and remain stable (wheels should include brakes).
- Penetration panels at each end of the chamber, each with 4 x SMA-Type and 4 x N-Type connectors (All connections should be precision, female type and supplied with appropriate inside and outside tethered caps/covers). Penetration panels shall be positioned adjacent to the doors.
- Internal fibre lighting is required (light sources must be external to the chamber).
- Chamber must be fully assembled off site and must be able to fit through double doors measuring Height 2610, Width 1608 mm.
- VHP-12 RAM standard/hybrid (chosen for optimum performance over operating frequency range), non-carbon shredding, fire retardant.
- Fire retardant standard: NRL 8093 (tests 1, 2 and 3), DIN4102 Class A or Class B, UL94HBF, ISO 11925-2, EURO Class E. Note that a test report and certificate are required for in-house Fire Safety officer at PTN site.

Remote turntable/platform requirements:

- Turntable/platform must be able to move backwards and forwards down the useable 3000 mm length of the chamber in 1 mm steps. Must be able to traverse the length of the chamber in approx. 2 minutes.

- Turntable/platform must be able to rotate 360 degrees clockwise and anticlockwise in 1 degree steps (full rotation in less than a minute).
- Turntable/platform diameter should be between 500 and 700 mm, max payload 2.5 kg.
- All motors, electronics (shielded or otherwise), and metal parts need to be external to the chamber. Only plastic, nylon, rubber, etc. can be inside the chamber.
- In addition a height adjustable, removable and repositionable platform must be provided to be located by the door, approx. dimensions Width 500 x Depth 300 mm, max payload 5 kg.
- A belt driven system is not desirable but will be considered on its merits compared with other solutions proposed.
- Must have control unit for remote operation external to the chamber, must also be controllable by non-proprietary means via a PC.

Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



Redacted under FOIA exemption



ETS Lindgren Oy Full proposal Lot One:

Proposal Ref. : 60220351-1
Proposal Date: 9th February 2022

Customer:

DSTL Porton Down

Building 5,
Salisbury,
Wiltshire,
SP4 0JQ

Contact Person:

Redacted under FOIA exemption

Your Reference: R1000169106

Commercial Response With Pricing

Subject: Response to ITT Reference No. R1000169106 DSTL HELIOS Anechoic Chamber Procurement - (Lot 1 – Redacted under FOIA exemption Large Anechoic Chamber)

Redacted under FOIA exemption

Further to the above ITT, this Commercial & Technical Proposal is provided for the procurement and installation of a Large Anechoic Chamber as detailed in the Statement of Requirement (SC2, Schedule 9) at DSTL Porton Down.

Redacted under FOIA exemption

We would like to take this opportunity to summarize the main elements of our proposal which we think are important when considering such a large investment as DSTL are considering:

- 1) **ETS-Lindgren is the only true turnkey EMC systems supplier**, able to manufacture 90% of the components of the proposed EMC test facility, such as RF-shielded enclosure,

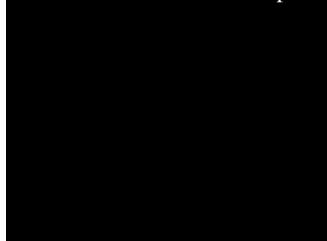
doors, penetrations, electromagnetic absorbers, power line filters, CCTV monitoring system, turntable, antenna tower, emission measurements and field generation immunity antennas, field probes, instrumentation, power amplifiers, measurement software, etc. This vertical integration, based on our 6 manufacturing factories, nearly eliminates reliance on 3rd parties and sub-contractors. The proposed solution is designed, engineered, manufactured, followed-up, installed and integrated by ETS-Lindgren professional teams.

- 2) ETS-Lindgren is happy to share its **very long experience with similar projects worldwide**. Many prestigious customers and EMC laboratories trusted our solutions for setting up their turnkey EMC facilities, including anechoic chamber and instrumentation systems. Besides this, because we operate ourselves an ISO 17025 accredited laboratory in our HQ (located in Cedar Park, Texas, USA), we understand better than anybody else the daily concerns of our customers, and are therefore able to help them in setting up their laboratory quickly and efficiently.
- 3) ETS-Lindgren's experts are **active contributors to standardization committees**, including CISPR, ANSI, IEEE, ISO, etc. This involvement makes it possible for us to anticipate the important changes, and we therefore constantly **develop new products and solutions** for our customers to be compliant with latest standard requirements. This makes ETS-Lindgren one of the **most innovating companies in the EMC industry**.
- 4) ETS-Lindgren **professional team includes 800 persons globally, 150 being based in Europe**. Our **healthy and stable financial situation** (ETS-Lindgren's mother company is ESCO Technologies, listed at NYSE) offers a solid background for large projects, making ETS-Lindgren the **low risk supplier**.

Please contact us should you have any questions or require additional information. Thank you for your continued interest in ETS-Lindgren's products and services.

Sincerely,

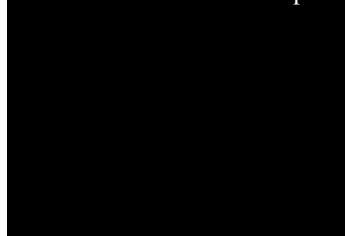
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Regional Sales Manager

Email: Redacted under FOIA exemption

Redacted under FOIA exemption



Director of Sales EMEA

Email: Redacted under FOIA exemption

Commercial & Technical Proposal

Customer: Ministry of Defence – DSTL, Porton Down

Redacted under FOIA exemption



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