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Bid Fax: (819) 997-9776

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Electronics, Simulators and Defence Systems Div.
/Division des systèmes électroniques et des systèmes de
simulation et de défense
11 Laurier St. / 11, rue Laurier
8C2, Place du Portage
Gatineau
Québec
K1A 0S5

Title - Sujet Search and Removal Equipment Suite	
Solicitation No. - N° de l'invitation W8476-112761/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client W8476-112761	Date 2013-03-21
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-101-23418	
File No. - N° de dossier 101qf.W8476-112761	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-04-03	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Michael Rancourt	Buyer Id - Id de l'acheteur 101qf
Telephone No. - N° de téléphone (819) 956-3930 ()	FAX No. - N° de FAX (819) 956-5650
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: See Herein	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

This Solicitation Amendment 004 is raised to:

- 1) to fix a reference error in the RFP. As such, the following change is hereby incorporated into the RFP:

DELETE part 7, Resulting Contract Clauses, Article 2.1, General Conditions; and

REPLACE the deleted text above with the following:

2.1 General Conditions

1031-2 (2012-07-16), Contract Cost Principles, apply to and form part of the Contract.

2030 (2012-11-19), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

- 2) answer Bidder questions raised during the solicitation period:

Question 1

The question is as follows :

Kindly confirm that the term "Technical Publications", as applied in the SOW, pages A-24 Para 3.8.3 and A-25 Para 3.8.3.2, does not include COTS manuals. Further, please confirm there is no requirement to translate COTS manuals as per Specification C-01-100-100/AG-005 Page 1-3 paras 9 and 10 based on their availability in either English or French.

The answer is as follows :

DND can confirm that sub-vendor COTS manuals do not themselves need to be provided in both official languages (English and Canadian French) as per specification C-01-100-100/AG-005 page 1-3 paragraph 10.

However, DND does require that the Technical Publication Package is delivered in both English and Canadian French, and will include ALL the information that is required to operate, repair and maintain each of the components within the SRES, as well as any aspects of health, safety or security for personnel who will use the equipment, as is stated in Appendix 2 to Annex A DID SRES-ILS-201 and DID SRES-ILS-202:

10.2.1 ...Manual shall cover the following topics...:

10.2.1.1 General Description/Equipment Overview;

10.2.1.2 Pre-use testing/inspection;

10.2.1.3 Preparation and set up for use;

10.2.1.4 Use and operation

10.2.1.5 Basic diagnosis and/or fault finding;

10.2.1.6 Storage and preparation for travel;

10.2.1.7 Safety/Hazardous material issues (if any), and

10.2.1.8 Any operator maintenance required to maintain the equipment.

Any reference from the Technical Publications to sub-vendor COTS manuals could be done for background information purposes, but all pertinent information shall be provided as part of the Technical Publication Package, in both official languages.

In essence, the SRES user shall not specifically require any sub-vendor COTS manuals to properly and safely use the equipment.

Question 2

The question is as follows :

In regards to requirement 3.3.4.2.1.1, an extensive search has shown that the 1.25in tape measure width specified in the RFP is not a readily available size for lengths greater than 100m. We request that this particular requirement be amended to allow industry to offer the long tape measure in the industry standard 0.5in width, noting that such a standard commercial-off-the-shelf component will be a significantly less costly option than the irregular 1.25in width.

The answer is as follows :

DND agrees to the Bidder's suggestion that the long tape measure be provided in the industry standard of 0.5inch.

As a result of the answer provided, the following changes have been made to Annex A, Statement of Work for SRES:

- 1) **DELETE** Annex A, "Statement of Work for SRES," Article 3.3.4.2.1.1 in it's entirety; and
REPLACE the deleted text above with the following:
3.3.4.2.1.1 Measuring tape width shall be at least 1.27cm (approx. 1/2").
- 2) **INSERT** The newly revised Annex A, "Statement of Work for SRES (Dated 20 Mar 2013)," reflecting these changes, attached herein.

ALL OTHER TERMS AND CONDITIONS OF THE SOLICITATION DOCUMENT REMAIN UNCHANGED.

Solicitation No. - N° de l'invitation

W8476-112761/A

Client Ref. No. - N° de réf. du client

W8476-112761

Amd. No. - N° de la modif.

004

File No. - N° du dossier

101qfW8476-112761

Buyer ID - Id de l'acheteur

101qf

CCC No./N° CCC - FMS No/ N° VME

Attached in order:

- 1) Newly revised Annex A, Statement of Work for the SRES (dated 20 March 2013).

STATEMENT OF WORK
FOR
SEARCH AND REMOVAL EQUIPMENT SUITE

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Related Appendix & ANNEX documents:

APPENDIX 2: Data Item Description (DID) for the Search and Removal Equipment Suite (SRES)

APPENDIX 3: Contract Data Requirements List (CDRL) for the Search and Removal Equipment Suite (SRES)

1.0 SCOPE

1.1 Purpose

- 1.1.1 The purpose of this Statement of Work (SOW) is to define the work requirements for the provision of an Explosive Ordnance Disposal (EOD) Search and Removal Equipment Suite (SRES) to be used by the Canadian Forces (CF).

1.2 Background

- 1.2.1 CF EOD operators are required to clear unexploded ordnance (UXO) and improvised explosive devices (IEDs). UXO, and in particular IEDs, come in all sizes, shapes and forms, with various kinds of explosive or toxic fillings and with increasingly sophisticated means of initiation.
- 1.2.2 The intended use of the SRES is to provide the EOD operator with a balanced suite of equipment to be used in a systematic manner for the efficient conduct of both direct and indirect search, identification, render safe and removal procedures required in UXO and IED clearance operations.

1.3 Acronyms and Abbreviations

ABCA	America (United States), Britain, Canada, Australia
CA	Contracting Authority
CAGE	Commerical and Government Entity
CD	Compact Disk
CDRL	Contract Data Requirements List
CE	Conformite Europeene
CF	Canadian Forces
CFB	Canadian Forces Base
CFSS	Canadian Forces Supply System
CFTO	Canadian Forces Technical Order
COTS	Commercial off the Shelf
CSA	Canadian Standards Association
DCSEM	Director Combat Support Equipment Management
DID	Data Item Description
DMC	Demilitarization Code
DML	Demilitarization List
DND	Department of National Defence
DPA	Defence Product Act
DSCO	Director Supply Chain Operations
DTMS	Defence Terminology Management System

DWG	Drawing format
EBS	Equipment Breakdown Structure
ECL	Export Control List
ECP	Engineering Change Proposal
ECCN	Export Control Classification Number
EHS	Environmental Health and Safety
EHSIR	Environmental Health and Safety Impact Report
EOD	Explosive Ordnance Disposal
IAW	In Accordance With
IED	Improvised Explosive Device
IEDD	Improvised Explosive Device Disposal
ILS	Integrated Logistics Support
IP	Initial Provisioning
IPC	Initial Provisioning Conference
IPGC	Initial Provisioning Guidance Conference
IPL	Illustrated Parts List
ISL	Interim Spares List
ITAR	International Traffic in Arms Regulations
JIT	Just in Time
LEMS	Land Equipment Maintenance System
MCN	Material Change Notice
MSDS	Material Safety Data Sheet
MSRPL	Manufacturer Suggested Retail Price List
NATO	North Atlantic Treaty Organization
NBC	Nuclear Biological & Chemical
NCAGE	NATO Commercial and Government Entity
NDHQ	National Defence Headquarters
NDID	National Defence Index of Documentation
NSCM	NATO Supply Code for Manufacturers
NSN	NATO Stock Number
OEM	Original Equipment Manufacturer
PBL	Product Baseline
PCB	Polychlorinated Biphenyl
PD	Provisioning Documentation
PPB	Provisioning Parts Breakdown
PHST	Packaging, Handling, Storage and Transportation

PWGSC	Public Works and Government Services Canada
R&O	Repair & Overhaul
RH	Relative Humidity
RSPL	Recommended Spare Parts List
SCN	Specification Change Notice
SOW	Statement of Work
SRES	Search and Removal Equipment Suite
STTE	Special Tools and Test Equipment
TA	Technical Authority
TMDE	Test, Measurement and Diagnostic Equipment
UL	Underwriters Laboratories
UXO	Unexploded Ordnance
VEC	Valued Ecosystem Component
WHMIS	Workplace Hazardous Materials Information System

2.0 APPLICABLE DOCUMENTS

2.1 References

2.1.1 Whereas mentioned, the following Standards shall be used for the preparation of deliverables to the extent specified in this SOW:

R.S., 1985, C. H-3	HAZARDOUS PRODUCTS ACT
SOR/86-304	CANADA OCCUPATIONAL HEALTH AND SAFETY REGULATIONS
SOR/99-7	OZONE-DEPLETING SUBSTANCES REGULATIONS, 1998
A-AD-100-100/AG-000	NATIONAL DEFENCE PUBLISHING POLICY AND ADMINISTRATION PROCEDURES
A-EN-007-000/FP-001	DND ENVIRONMENTAL ASSESSMENT MANUAL
C-01-100-100/AG-005	ACCEPTANCE OF COMMERCIAL AND FOREIGN GOVERNMENT PUBLICATIONS AS ADOPTED PUBLICATIONS
C-02-008-001/TS-000	GENERAL SAFETY LITHIUM BATTERIES HANDLING, STORAGE, PRESERVATION AND DISPOSAL INSTRUCTIONS
C-02-040-009/AG-001	GENERAL SAFETY STANDARDS
D-01-100-207/SF-002	SPECIFICATION - PREPARATION OF INTERIM ILLUSTRATED PARTS MANUALS FOR LAND EQUIPMENTS

D-01-100-214/SF-000	SPECIFICATION FOR PREPARATION OF PROVISIONING DOCUMENTATION FOR CANADIAN FORCES EQUIPMENT
D-01-400-001/SG-000	STANDARD - ENGINEERING DRAWING PRACTICES FOR CLASS 1 DRAWINGS AND TECHNICAL DATA LIST
D-02-002-001/SG-001	STANDARD – IDENTIFICATION MARKING OF CANADIAN MILITARY PROPERTY
D-LM-008-001/SF-001	METHODS OF PACKAGING
D-LM-008-002/SF-001	SPECIFICATION FOR MARKING FOR STORAGE AND SHIPMENT
D-LM-008-011/SF-001	PREPARATION AND USE OF PACKAGING REQUIREMENTS CODES
MIL-P-46593A	PROJECTILE, CALIBERS .22, .30, .50 AND 20MM FRAGMENT SIMULATING
MIL-STD-622F	V50 BALLISTIC TEST FOR ARMOUR
STANAG 2897 (EDITION 3)	STANDARDIZATION OF EOD EQUIPMENT REQUIREMENTS AND EQUIPMENT
STANAG 2920 (EDITION 2)	BALLISTIC TEST METHOD FOR PERSONNEL ARMOUR MATERIALS AND COMBAT CLOTHING
NEMA IEC 60529	DEGREES OF PROTECTION PROVIDED BY ENCLOSURES - IP CODE

3.0 REQUIREMENTS

3.1 Overview

3.1.1 This section describes the work required to supply and deliver the EOD Search and Removal Equipment Suite (SRES) and associated equipment.

3.1.2 **The SRES shall consist of the following components, and is further described in detail under section 3.3:**

- 3.1.2.1 Search/Investigation Equipment Kit;
 - 3.1.2.1.1 Search endoscope & mirror equipment;
 - 3.1.2.1.2 Under-vehicle search mirror;
 - 3.1.2.1.3 Video search equipment;
 - 3.1.2.1.4 Post-blast analysis equipment;
 - 3.1.2.1.5 Mechanical (Doctor's) stethoscope;
 - 3.1.2.1.6 Electronic stethoscope;
 - 3.1.2.1.7 Building access equipment;
 - 3.1.2.1.8 Vehicle access equipment;
 - 3.1.2.1.9 General (Engineer) multi-piece tool equipment;
 - 3.1.2.1.10 Non-magnetic/sparking mine prodder;
 - 3.1.2.1.11 Handheld metal detector (deep tissue search)
 - 3.1.2.1.12 Handheld metal detector (confined spaces search), and
 - 3.1.2.1.13 Separate hard transport container(s) (such as, but not limited to, Pelican® or Hardigg® cases) for the above Search/Investigation Equipment.
- 3.1.2.2 Non-magnetic/sparking Search/Investigation Equipment Kit;
 - 3.1.2.2.1 Non-magnetic/sparking tool equipment;
 - 3.1.2.2.2 Non-magnetic/sparking excavation equipment, and
 - 3.1.2.2.3 Separate hard transport container(s) (such as, but not limited to, Pelican® or Hardigg® cases) for the above Non-magnetic/sparking Search/Investigation Equipment.
- 3.1.2.3 Threat Removal/Mitigation Equipment Kit;

- 3.1.2.3.1 Hook and line equipment;
- 3.1.2.3.2 Clamp equipment;
- 3.1.2.3.3 Heavy-duty tripod;
- 3.1.2.3.4 Light-duty tripod;
- 3.1.2.3.5 Telescopic manipulator;
- 3.1.2.3.6 Bomb (Blast) containment bag;
- 3.1.2.3.7 Bomb (Blast) blanket, and
- 3.1.2.3.8 Separate hard transport container(s) (such as, but not limited to, Pelican® or Hardigg® cases) for the above Threat Removal/Mitigation Equipment.
 - 3.1.2.3.8.1 Heavy-duty tripod shall not require a hard transport container.
- 3.1.2.4 Lightweight Dismounted Operations Equipment Kit;
 - 3.1.2.4.1 Lightweight EOD tool and hook and line equipment;
 - 3.1.2.4.2 Separate hard transport container (such as, but not limited to, Pelican® or Hardigg® case) for the above Lightweight Dismounted Operations Equipment;
- 3.1.2.5 EOD equipment hand truck, and
- 3.1.2.6 Any other required items such as maintenance tools and manuals (stored inside the hard transport containers.

3.2 System Characteristics

3.2.1 General

- 3.2.1.1 The SRES requirements shall be met by current commercial or military technology;
- 3.2.1.2 The SRES shall be based on proven, fielded equipment that is in-service with a North Atlantic Treaty Organization (NATO) or American, British, Canadian, Australian (ABCA) military partner or police agency of those countries;

3.2.2 Design

- 3.2.2.1 The SRES shall be designed so that the various components shall work together without any modifications;
- 3.2.2.2 The SRES shall be designed for fast viewing and selection of available tools and equipment, as well as replacement and mustering of those tools after an operation;

3.2.2.3 SRES component specifications, when required by the specific component under section 3.3, shall be supported by CE (or equivalent such as CSA and UL) test reports or accredited NATO/ABCA third-party lab certifications;

3.2.3 Operational Clothing Compatibility

3.2.3.1 The SRES shall be useable by an operator wearing summer or winter environmental clothing or the NBC ensemble, without impeding setup or operation;

3.2.3.2 During typical EOD search and threat removal operations, the SRES shall be useable by an operator wearing a helmet with a full visor, gloves, and a ballistic vest, or personnel in CF bomb suits, as appropriate for the task;

3.2.4 Transportability

3.2.4.1 The SRES shall be transportable by fixed wing aircraft, cargo ships, rail, and commercial and military wheeled/tracked vehicles on roads;

3.2.4.2 The SRES shall be transportable by rotary wing aircraft and military wheeled/tracked vehicles on highways, and cross-country;

3.2.4.3 The entire SRES, including all soft cases/bags, shall be shipped in waterproof hard transport containers, except for the Heavy-duty tripod IAW 3.3.17 and EOD equipment hand truck IAW 3.3.23;

3.2.5 Maintainability

3.2.5.1 The intended in-service life of the SRES shall be no less than ten (10) years;

3.3 System Components

3.3.1 Search endoscope & mirror equipment

3.3.1.1 Search endoscope shall be no more than 12mm in diameter;

3.3.1.2 Search endoscope shall be at least 30cm in length, and no more than 1m;

3.3.1.3 Search endoscope shall have an illuminated tip for viewing in low-light conditions;

3.3.1.3.1 Search endoscope with illuminated tip shall operate using standard COTS alkaline batteries of cell size AA, AAA, C, D or 9V (batteries not to be included in SRES);

3.3.1.4 Mirror equipment shall include a telescopic arm;

3.3.1.4.1 Telescopic arm when not extended shall be no longer than 50cm in length so that it can be transported in the Soldier's Tactical Field Pack (NSN: 8465-20-000-2774);

3.3.1.4.2 Telescopic arm, when extended, shall be at least 150cm in length;

- 3.3.1.5 Mirror equipment shall include a rigid arm;
 - 3.3.1.5.1 Rigid arm shall be attached to a battery operated light source;
 - 3.3.1.5.1.1 Light source shall operate using standard COTS alkaline batteries of cell size AA, AAA, C, D or 9V (batteries not to be included in SRES);
 - 3.3.1.5.1.2 Battery pack, NOT to be included, shall provide enough power for at least eight (8) hours of operation;
- 3.3.1.6 Mirror equipment shall include a variety of mirrors, that can be attached to both the telescopic and rigid arms:
 - 3.3.1.6.1 Two (2) plano (flat) mirrors of dimension 6cm x 10cm or larger;
 - 3.3.1.6.2 Two (2) plano (flat) circular mirrors at least 6cm in diameter, and
 - 3.3.1.6.3 Two (2) convex circular mirrors at least 10cm in diameter.
- 3.3.2 Under vehicle search mirror
 - 3.3.2.1 Under-vehicle search arm shall be at least 90cm in length;
 - 3.3.2.2 Under-vehicle search mirror shall include a battery operated light source;
 - 3.3.2.2.1 Light source shall operate using standard COTS alkaline batteries of cell size AA, AAA, C, D or 9V (batteries not to be included in SRES);
 - 3.3.2.2.2 Battery pack, NOT to be included, shall provide enough power for at least eight (8) hours of operation;
 - 3.3.2.3 Under-vehicle search mirror shall be a convex mirror with an area of no less than 400cm²;
 - 3.3.2.4 Under-vehicle search mirror shall include a castor/wheel mounted base to support the mirror when moved under the vehicle;
- 3.3.3 Video search equipment
 - 3.3.3.1 Video search equipment shall include a light source(s) with battery pack(s);
 - 3.3.3.1.1.1 Battery pack(s) shall provide enough power for at least eight (8) hours of operation;
 - 3.3.3.2 Video search equipment shall include castor/wheeled mounted base to support the camera(s) when moved under the vehicle;
 - 3.3.3.3 Video search equipment shall include the ability to view and display a colour image, as well as, the ability to view and display an IR illuminated low-light image;
 - 3.3.3.4 Video search equipment shall include a display screen, viewable in both low-light and bright conditions, and a support strap;

- 3.3.3.5 Video search equipment shall include a telescopic pole for the camera(s) and when fully extended shall be at least 150cm in length;
- 3.3.4 Post-blast analysis equipment
 - 3.3.4.1 Post-blast analysis equipment shall be useable in the field for on-the-spot collection of forensic material;
 - 3.3.4.2 Post-blast analysis equipment shall include the following:
 - 3.3.4.2.1 One (1) measuring tape with at least 100m of measuring length (using, as a minimum, meter and centimeter scale);
 - 3.3.4.2.1.1 Measuring tape width shall be at least 1.27cm (approx. ½")
 - 3.3.4.2.2 One (1) measuring tape with at least 8m of measuring length (using, as a minimum, meter and centimeter scale);
 - 3.3.4.2.2.1 Measuring tape width shall be at least 3.175cm (approx. 1 ¼")
 - 3.3.4.2.3 One (1) measuring tape with at least 3m of measuring length (using, as a minimum, meter and centimeter scale);;
 - 3.3.4.2.4 One (1) road measuring wheel;
 - 3.3.4.2.5 One (1) evidence instrument equipment kit, provided with carrying case consisting of:
 - 3.3.4.2.5.1 Three (3) hemostats of different sizes;
 - 3.3.4.2.5.2 Three (3) tweezers of different sizes;
 - 3.3.4.2.5.3 One (1) curved tweezer;
 - 3.3.4.2.5.4 One (1) pair of scissors;
 - 3.3.4.2.5.5 Four (4) metal probes;
 - 3.3.4.2.5.6 Ten (10) #10 disposable scalpels, and
 - 3.3.4.2.5.7 Two (2) permanent writing markers (one black and one red in colour).
 - 3.3.4.2.6 One (1) garden hand rake and one (1) garden hand shovel;
 - 3.3.4.2.7 One (1) triangular body metric ruler at least 30cm in length;
 - 3.3.4.2.8 One (1) magnifying glass at least 10.16cm (approx. 4 inches) in diameter, providing at minimum 2X magnification;
 - 3.3.4.2.9 One (1) pocket sized magnifier with lens at least 3.17cm (approx. 1.25 inches) in diameter, providing at minimum 3X magnification;

- 3.3.4.2.10 One (1) magnet with at least 45.4kg (approx. 100lb.) pull force;
- 3.3.4.2.11 One (1) crime scene photo documentation kit, provided with carrying case;
 - 3.3.4.2.11.1 Contents shall allow for evidence to be identified in photos, sequenced and oriented using photo evidence markers and scales.
- 3.3.4.2.12 One (1) reversible photography L-shaped scale at least 30cm in length;
 - 3.3.4.2.12.1 Black with white printing on one side;
 - 3.3.4.2.12.2 White with black printing on the other side;
- 3.3.4.3 Post-blast analysis equipment shall include the following consumables (one (1) set):
 - 3.3.4.3.1 One (1) postmortem fingerprint equipment kit, provided with carrying case;
 - 3.3.4.3.1.1 Contents shall allow for the fingerprinting of deceased individuals, including one-hundred (100) fingerprint cards for left and right hand, ink and print spoon.
 - 3.3.4.3.2 One (1) inkless fingerprint equipment;
 - 3.3.4.3.3 One-hundred (100) blank, orange coloured, crime scene flags;
 - 3.3.4.3.4 Six (6) evidence tubes (including biohazard and evidence labels) at least 6.35cm (approx. 2 ½ inches) in diameter and at least 30.48cm (approx. 12 inches) in length;
 - 3.3.4.3.5 One (1) paint brush with bristles at least 5.08cm (approx. 2 inches) wide;
 - 3.3.4.3.6 Fourteen (14) photo scales at least 15.24cm (approx. 6 inches) in length;
 - 3.3.4.3.7 One (1) utility knife with spare blades;
 - 3.3.4.3.8 One (1) evidence ruler tape at least 2.54cm (approx. 1 inch) wide and at least 9.14m (approx. 30 feet) long;
 - 3.3.4.3.9 One-hundred (100) evidence security bags at least 12.7cm x 20.32cm (approx. 5 inches x 8 inches) in size;
 - 3.3.4.3.10 One-hundred (100) evidence security bags at least 22.86cm x 30.48cm (approx. 9 inches x 12 inches) in size;
 - 3.3.4.3.11 One-hundred (100) blank paper evidence bags at least 20.32cm x 12.7cm x 38.1cm (approx. 8 inches x 5 inches x 15 inches) in size;
 - 3.3.4.3.12 One-hundred (100) adhesive evidence integrity strips at least 10.16cm x 1.9cm (approx. 4 inch x 0.75 inch) in size;

- 3.3.4.3.13 Two-hundred and fifty (250) red adhesive biohazard labels at least 2.54cm x 10.16cm (approx. 1 inch x 4 inches) in size;
- 3.3.4.3.14 Ten (10) clear plastic evidence jars at least 59 ml (approx. 2oz) in volume;
- 3.3.4.3.15 Ten (10) clear plastic evidence jars at least 295 ml (approx. 10oz) in volume;
- 3.3.4.3.16 One-hundred (100) ink remover towelettes;
- 3.3.4.3.17 Fifty (50) small nitrile gloves at least 0.33mm (approx. 13mil) thick;
- 3.3.4.3.18 Fifty (50) medium nitrile gloves at least 0.33mm (approx. 13mil) thick;
- 3.3.4.3.19 Fifty (50) large nitrile gloves at least 0.33mm (approx. 13mil) thick;
- 3.3.4.3.20 Fifty (50) X-large nitrile gloves at least 0.33mm (approx. 13mil) thick;
- 3.3.5 Mechanical (Doctor's) stethoscope
 - 3.3.5.1 Stethoscope shall be suitable for EOD applications;
 - 3.3.5.2 Stethoscope shall have black-coloured tubing;
- 3.3.6 Electronic stethoscope
 - 3.3.6.1 The Electronic stethoscope shall have a minimum operational life of five (5) hours under battery power and shall include the battery pack;
 - 3.3.6.2 The Electronic stethoscope shall have an audio processing unit for the connection of: sensors, headset; and the required power source;
 - 3.3.6.2.1 The audio processing unit shall be adjustable for different settings and amplifications;
 - 3.3.6.3 Headset
 - 3.3.6.3.1 The headset shall be binaural;
 - 3.3.6.3.2 The headset shall suppress ambient noises;
 - 3.3.6.3.3 The headset shall be adjustable to fit different sized heads;
 - 3.3.6.4 Contact and contactless sensors shall be provided and connectable to the audio processing unit by included cables each at least 1.5 meters in length;
 - 3.3.6.4.1 Contact (acoustic vibration) sensors
 - 3.3.6.4.1.1 One (1) contact sensor shall be provided and be capable of being connected to an included ground-penetrating metal bar, tube or probe using supplied adaptors or clamps;

- 3.3.6.4.1.2 One (1) contact sensor shall be provided and have a surface that allows for the easy application of tape for its attachment to smooth surfaces;
- 3.3.6.4.2 Contactless sensor
 - 3.3.6.4.2.1 One (1) contactless sensor shall be provided allowing for acoustic signature detection at distances of at least three (3) meters;
- 3.3.6.5 Cable and Reel
 - 3.3.6.5.1 A cable of at least one-hundred (100) meters shall also be provided to allow for a safe operating distance from the threat;
 - 3.3.6.5.2 A cable reel shall be required for the above cable in para. 3.3.6.5.1;
 - 3.3.6.5.3 The cable reel shall have an integral stand and handle;
 - 3.3.6.5.4 The cable reel shall have socket(s) and connector(s) where required;
- 3.3.6.6 Adjustable Sensor Stand
 - 3.3.6.6.1 An adjustable, multi-position stand, along with adaptors if required, shall be provided for the remote use of the contact and contactless sensors;
- 3.3.6.7 Electronic stethoscope shall operate in climatic conditions ranging from -20°C to +44°C without performance degradation;
- 3.3.6.8 Electronic stethoscope shall be capable of being stored in climatic conditions ranging from -30°C to +50°C without performance degradation;
- 3.3.7 Building access equipment
 - 3.3.7.1 Building access equipment shall be used when entering buildings and performing tasks such as opening doors remotely and creating anchor points;
 - 3.3.7.2 Building access equipment shall have a minimum of ten (10) different types of components to deal with a multitude of different building entry points;
 - 3.3.7.3 Components shall be different from any other components provided in other SRES equipment;
- 3.3.8 Vehicle access equipment
 - 3.3.8.1 Vehicle access equipment shall be used when remotely accessing a vehicle and performing tasks such as opening vehicle doors, hoods and trunks, shattering windows, as well as turning keys;
 - 3.3.8.2 Vehicle access equipment shall have a minimum of ten (10) different types of components to deal with a multitude of different vehicles;
 - 3.3.8.3 Components shall be different from any other components provided in other SRES equipment;

- 3.3.9 General (Engineer) multi-piece tools
 - 3.3.9.1 General (Engineer) multi-piece tools shall provide the user with a selection of standard tools such as screwdrivers, wire cutters, pliers, vice grips, wire strippers, scissors, tweezers, hammers, spanners, saws, wrenches and chisels;
 - 3.3.9.2 General (Engineer) multi-piece tools shall have a minimum of thirty (30) different types of components to deal with a multitude of different situations;
 - 3.3.9.3 Components shall be different from any other components provided in other SRES equipment;
- 3.3.10 Non-magnetic/sparking mine prodder
 - 3.3.10.1 Mine prodder shall be tested and certified to be non-magnetic IAW STANAG 2897 Annex C;
 - 3.3.10.1.1 Non-magnetic certification shall be provided to the CA and TA prior to final delivery;
 - 3.3.10.2 Mine prodder handle should be parallel (like a knife) to the prodding shaft instead of perpendicular;
 - 3.3.10.3 Mine prodder shaft diameter shall be no more than eight (8) mm;
 - 3.3.10.4 Mine prodder shall be capable of locating objects at a depth of at least twenty (20) cm;
 - 3.3.10.5 Due to the inherent problems with human exposure to Beryllium slivers or dust, the non-magnetic/sparking mine prodder should not contain any beryllium;
- 3.3.11 Handheld metal detector (deep tissue search)
 - 3.3.11.1 Handheld metal detector shall be used for detection of small metal objects deep within skin tissue or a body;
 - 3.3.11.1.1 Handheld metal detector shall detect targets less than 0.05 grams in mass;
 - 3.3.11.2 Handheld metal detector shall be capable of operation for three-hundred (300) hours (30 days at 10 hours per day) without the need for battery replacement or re-charging;
 - 3.3.11.3 Handheld metal detector shall be no more than 50cm in length so that it fits within the Soldier's Tactical Field Pack (NSN: 8465-20-000-2774);
 - 3.3.11.4 Handheld metal detector shall operate in climatic conditions ranging from -20°C to +50°C without performance degradation;
 - 3.3.11.5 Handheld metal detector shall be capable of being stored in climatic conditions ranging from -30°C to +60°C without performance degradation;
- 3.3.12 Handheld metal detector (confined spaces search)

- 3.3.12.1 Two (2) Handheld metal detectors (confined spaces search) shall be provided;
- 3.3.12.2 Handheld metal detectors shall be used for detection of ferrous and non-ferrous materials;
- 3.3.12.3 Handheld metal detectors shall be capable of operation for sixty (60) hours (30 days at 2 hours per day) without the need for battery replacement or re-charging;
- 3.3.12.4 Handheld metal detectors shall be no more than 25cm in length (approx. 10 inches in length) so that detector can fit in a pocket and be used in restricted access situations such as inside culverts and under vehicles;
- 3.3.12.5 Handheld metal detectors shall be a 'wand' type with 360 degree detection area and search head to allow the user to be overtop of the detector but still pin point detection;
- 3.3.12.6 Handheld metal detectors shall include an integrated LED flashlight for low light situations when inside culverts or similar confined spaces;
- 3.3.12.7 Handheld metal detector shall include both a visual alarm as well as a tactile alarm to indicate detections even when the user's view is restricted;
 - 3.3.12.7.1 If an audible alarm is included, the capability to turn the sound off shall be required;
- 3.3.12.8 Handheld metal detector shall include a soft case with belt loop capable of accommodating belt size of 4.5cm in width which is standard on a pair of Combat Trousers (NSN 8415-21-920-4930);
- 3.3.12.9 Handheld metal detector shall be capable of meeting an IP66 rating, equivalent or better, IAW NEMA IEC 60529;
- 3.3.12.10 Handheld metal detector shall operate in climatic conditions ranging from -30°C to +50°C without performance degradation;
- 3.3.13 Non-magnetic/sparking tools
 - 3.3.13.1 Non-magnetic/sparking tools shall provide the user with a selection of standard tools such as screwdrivers, cutters, pliers, hammers, spanners, saws, wrenches and chisels;
 - 3.3.13.2 Each component of the Non-magnetic/sparking tools shall be tested and certified to be non-magnetic IAW STANAG 2897 Annex C;
 - 3.3.13.2.1 Non-magnetic certification shall be provided to the TA prior to final delivery;
 - 3.3.13.3 Non-magnetic/sparking tools shall have a minimum of thirty (30) different types of components to deal with a multitude of different situations;
 - 3.3.13.4 Due to the inherit problems with human exposure to Beryllium slivers or dust, the non-magnetic/sparking tool equipment should not contain any beryllium;

- 3.3.14 Non-magnetic/sparking excavation equipment
 - 3.3.14.1 Non-magnetic/sparking excavation equipment shall provide the user with a selection of standard tools such as shovel, hammers, pick and chisel;
 - 3.3.14.2 Each component of the Non-magnetic/sparking excavation equipment shall be tested and certified to be non-magnetic IAW STANAG 2897 Annex C;
 - 3.3.14.2.1 Non-magnetic certification shall be provided to the CA and TA prior to final delivery;
 - 3.3.14.3 Non-magnetic/sparking excavation equipment shall have a minimum of six (6) different types of components to deal with a multitude of different situations;
 - 3.3.14.4 Due to the inherit problems with human exposure to Beryllium slivers or dust, the non-magnetic/sparking excavation equipment should not contain any beryllium;
- 3.3.15 Hook and line equipment
 - 3.3.15.1 Hook and Line equipment shall be used in conjunction with the building access and vehicle access equipment, as well as to remotely retrieve/move objects, and finally lift objects in conjunction with the heavy and light duty tripods;
 - 3.3.15.2 Hook and Line equipment shall have a minimum of thirty (30) different types of components to deal with a multitude of different situations;
 - 3.3.15.2.1 Hook and Line equipment shall include components that are capable of pulling and lifting objects within the full load range up to 227.3kg (approx. 500lbs);
 - 3.3.15.3 Component specifications (except for the telescopic pole in para. 3.3.15.5) shall be certified as described in paragraph 3.2.2.3;
 - 3.3.15.4 Components shall be different from any other components provided in other SRES equipment;
 - 3.3.15.5 Hook and Line equipment shall include telescopic pole that can extend out to at least three (3) meters;
- 3.3.16 Clamp equipment
 - 3.3.16.1 Clamp equipment shall be able to clamp onto surfaces, handles or onto objects, as well as provide anchor points;
 - 3.3.16.2 Clamp equipment shall have a minimum of five (5) different types of components to deal with a multitude of different clamping needs;
 - 3.3.16.3 Components shall be different from any other components provided in other SRES equipment;
- 3.3.17 Heavy-duty tripod

- 3.3.17.1 Heavy-duty tripod shall be capable of supporting loads of up to 227.3kg (approx. 500lbs);
- 3.3.17.2 Heavy-duty tripod shall be capable of collapsing to a height of no more than 2.75m (approx. 9 feet) for storage in transport vehicle;
- 3.3.17.3 Heavy-duty tripod shall be provided with carry straps for carriage by one (1) operator;
- 3.3.17.4 Component specification (maximum load) shall be certified as described in paragraph 3.2.2.3;
- 3.3.18 Light-duty tripod
 - 3.3.18.1 Light-duty tripod shall be capable of supporting loads of up to 79.5kg (approx. 175lbs);
 - 3.3.18.2 Light-duty tripod shall be provided with carry straps for carriage by one (1) operator;
 - 3.3.18.3 Component specification (maximum load) shall be certified as described in paragraph 3.2.2.3;
- 3.3.19 Telescopic manipulator
 - 3.3.19.1 Telescopic manipulator shall have an electrically-controlled manipulator providing the ability to grasp and rotate objects;
 - 3.3.19.2 Telescopic manipulator shall:
 - 3.3.19.2.1 Be balanced and stabilized for precise operation;
 - 3.3.19.2.2 Provide a minimum of three (3) meter stand-off from threat packages to the operator;
 - 3.3.19.2.3 Include break-away feature in case of threat package detonation, and
 - 3.3.19.2.4 Operate using standard COTS alkaline batteries of cell size AA, AAA, C, D or 9V (batteries not to be included in SRES);
 - 3.3.19.2.4.1 Battery pack, NOT to be included, shall provide enough power for at least three (3) hours of operation;
 - 3.3.19.3 Telescopic manipulator shall operate in climatic conditions ranging from -20°C to +44°C without performance degradation;
 - 3.3.19.4 Telescopic manipulator shall be capable of being stored in climatic conditions ranging from -30°C to +50°C without performance degradation;
- 3.3.20 Bomb (Blast) containment bag
 - 3.3.20.1 Bomb containment bag shall be used for temporary storage of suspect letter bombs at least 21cm (width) x 27cm (length) x 3.5cm (thick);

- 3.3.20.2 Bomb containment bag shall permit x-ray examination of the contents;
- 3.3.20.3 Bomb containment bag shall be capable of containing the blast from at least thirty-five (35) grams of explosives (Seismoplast or equivalent);
- 3.3.21 Bomb (Blast) blanket
 - 3.3.21.1 Bomb blanket shall be used to suppress the blast fragmentation from small (for example briefcase and hand carry bag sized or equivalent) threats;
 - 3.3.21.2 Bomb blanket shall have a ballistic V50 rating of 400m/sec;
 - 3.3.21.2.1 Ballistic characteristics shall be tested IAW MIL-STD-662F using the .22 Cal. projectile as specified in MIL-P-46593A or tested IAW STANAG 2920 using the NATO 17 grain chisel nose Fragment Simulating Projectile (FSP).
 - 3.3.21.3 Bomb blanket shall be at least 150cm x 150cm in size;
 - 3.3.21.4 Transport bag shall be included with Bomb blanket;
- 3.3.22 Lightweight EOD tool and hook and line equipment;
 - 3.3.22.1 Lightweight EOD tool and Hook and Line equipment shall include the following:
 - 3.3.22.1.1 One (1) reel with at least 100m of no more than 3mm diameter (climbing) rope, capable of supporting at least 90kg (approx. 200lbs);
 - 3.3.22.1.2 One (1) rope puller with hand grip capable of pulling rope provided in 3.3.22.1.1;
 - 3.3.22.1.3 Two (2) vice grips with screw-in metal eyelets for attaching carabineer;
 - 3.3.22.1.4 One (1) foldable grappling hook (3 prong – lockable);
 - 3.3.22.1.5 Two (2) pulleys, each capable of supporting at least 90kg (approx. 200lbs);
 - 3.3.22.1.6 Two (2) carabineers, each rated for at least 2270kg (approx. 5000lbs);
 - 3.3.22.1.7 Two (2) carabineers, each rated for at least 454kg (approx. 1000lbs);
 - 3.3.22.1.8 One (1) micro torch, including enough fuel for 16 hours of constant operation;
 - 3.3.22.1.9 Three (3) large fish (with prong to hold hook in place once inserted) hooks, capable of supporting a safe working load of at least 90kg (approx. 200lbs);
 - 3.3.22.1.9.1 Hooks shall have protective tube to prevent accidental punctures;
 - 3.3.22.1.10 Two (2) “endless loop”, ropes with non-rigid eye loops at both ends;

- 3.3.22.1.10.1 Rope (section between non-rigid eye loops) shall be a minimum of one (1) meter in length;
- 3.3.22.1.11 One (1) scalpel;
- 3.3.22.1.12 One (1) set of mini wire cutters (at least two (2) different sizes) & pliers (at least three (3) different sizes);
- 3.3.22.1.13 Two (2) small clamps capable of clamping onto surfaces at least 2.5cm (approx. 1 inch) thick;
- 3.3.22.1.14 One (1) set of tweezers (at least three (3) different sizes);
- 3.3.22.1.15 One (1) measuring tape with at least 300cm (approx. 10 feet) in measuring length;
- 3.3.22.1.16 One (1) pair of medical scissors, and
- 3.3.22.1.17 Soft carrying case for above items para 3.3.22.1.1 to 3.3.22.1.16.
- 3.3.22.2 Lightweight EOD Tool and Hook and Line equipment shall weigh less than 4.55kg (approx. 10lbs), including soft carrying case.
- 3.3.23 EOD equipment hand truck
 - 3.3.23.1 EOD equipment hand truck shall be capable of carrying at least 68kg (approx. 150lbs) of weight;
 - 3.3.23.2 EOD equipment hand truck wheels shall be capable of being locked in place (both turning and swivel movements) when required to hold the hand truck in place when on a slope or when needed as an anchor point;
 - 3.3.23.3 EOD equipment hand truck shall be able to traverse smooth polished surfaces, hard flat road surfaces, gravel, soft mud, and field stubble.

3.4 Electrical Characteristics

- 3.4.1 General
 - 3.4.1.1 If any Lithium or Lithium-polymer batteries are used in the various SRES components (section 3.3), then the procedures in C-02-008-001/TS-000 General Safety Lithium Batteries Handling, Storage Preservation and Disposal Instructions shall be used;
- 3.4.2 Electrical Protection Requirements
 - 3.4.2.1 SRES components, when required, shall be protected with fuses or circuit breakers to provide current surge protection for electronics;
- 3.4.3 Battery Charging System

- 3.4.3.1 Contractor shall provide battery charger(s), with universal power input of 110VAC – 220VAC, 50Hz – 60Hz, for all of the SRES components (section 3.3) with rechargeable batteries;
- 3.4.3.2 Battery charger(s) shall provide a visual indication of the battery level in order to indicate when charging is required and when it is complete;
- 3.4.3.3 Battery charging time shall not exceed twelve (12) hours for any of the SRES battery packs;
- 3.4.3.4 Battery charger(s) shall be certified CE, UL or CSA;

3.5 Environmental and Climatic Characteristics

3.5.1 Climatic Conditions

- 3.5.1.1 The SRES shall be capable of operation while in climatic conditions ranging from –30°C to +50°C without performance degradation, unless otherwise stated under System Components para. 3.3;
- 3.5.1.2 The SRES shall be capable of being stored in temperature conditions ranging from – 50°C to + 70°C, unless otherwise stated under System Components para. 3.3;

3.5.2 Atmospheric Conditions

- 3.5.2.1 The SRES shall operate without performance degradation in relative humidity ranging from 5% to 100%, unless otherwise stated under System Components para. 3.3;
- 3.5.2.2 The SRES shall meet component performance specifications when exposed to ice, sand, dust, wind, sun, rain, salt fog, and hail;

3.5.3 Durability

- 3.5.3.1 General – SRES System shall be ruggedized to withstand rough handling under conditions of combat;
- 3.5.3.2 Vibration and Shock – The vibration induced by transportation over rough roads and terrain shall not cause the SRES to malfunction or cause degradation of performance and it shall not shorten the operational life;

3.6 Environmental Health and Safety (EHS)

- 3.6.1 Environmental Health and Safety (EHS) consideration shall be incorporated and documented into the decision making process for the Work performed under this Contract. EHS documentation shall be maintained within the project file throughout the life of this Contract. The Contractor shall provide for and allow DND inspection and monitoring of EHS documentation throughout the life of the contract;
- 3.6.2 Halocarbons as identified within the Ozone-Depleting Substances Regulations (SOR/99-7) are not to be incorporated into the design, operation or maintenance of equipment, products, or support services;

- 3.6.3 Mercury, in any shape or form, contained or used within the design, operation and maintenance of equipment, support tooling, products or materials used or consumed, shall be identified and associated with their physical location within or on the Work provided;
- 3.6.4 Polychlorinated Biphenyls (PCBs) are not to be incorporated into the design, operation and maintenance of the equipment, or products used in equipment support activities;
- 3.6.5 The Contractor shall label and ship goods falling within the Hazardous Products Act, R.S. 1985, c. H-3 and regulation(s) there under in accordance with the said Act and regulation(s) accompanied by the required material safety data sheet(s) completed in either Canadian or US English and Canadian French. The label shall clearly identify the contents of the hazardous material and the material safety data sheet shall explain what those hazards are. Manufacturers or importers of exempted or permitted products (Risk Management Strategy For Mercury-Containing Products (http://www.ec.gc.ca/ceparegistry/documents/part/Merc_RMS/Merc_RMS.cfm and proposed regulation refers) shall affix a label on the product and the package that includes the following:
 - 3.6.5.1 The statement “CAUTION/MISE EN GARDE” and the content of the toxic substance contained in the product. For mercury-containing products, the label shall also require:
 - 3.6.5.1.1 Information on accidental breakage procedures and proper disposal options (text/ website address/contact information);
 - 3.6.5.1.2 The “Hg” symbol encircled by a line;
- 3.6.6 The equipment shall have bilingual (Canadian or US English and Canadian French) danger and caution signs, labels and markings on it for warning of specific hazards such as voltage, current, thermal or physical hazards in accordance with Canada Occupation Health and Safety Regulations, SOR/86-304 and CFTO C-02-040-009/AG-001 General Safety Standards;
- 3.6.7 New or amended support documentation by the contractor shall incorporate appropriate EHS warnings and instructions in direct relation of the EHS risks presented in the contents;
- 3.6.8 Contractor Capability and Facility Survey:
 - 3.6.8.1 The Contractor shall have a management system in place to control environmental, health and safety impacts resulting from their activities, products or services;
 - 3.6.8.2 The Contractor shall have a formalized set of procedures and control measures in place to achieve conformance with the requirements of this Work, while ensuring environmental, health and safety protection and pollution prevention;
 - 3.6.8.3 The Contractor shall also make reasonable effort to monitor that all subcontractors are in compliance with applicable environmental laws and regulations;

3.7 Project Management

- 3.7.1 Project Management Program
 - 3.7.1.1 The Contractor's Project Manager shall be the primary point of contact between the Contractor and the DND Technical Authority and the PWGSC Contracting Authority for all issues related to the Contract;
- 3.7.2 Project Management Plan (PMP)
 - 3.7.2.1 The Contractor shall prepare, deliver, maintain and update a Project Management Plan (PMP) IAW CDRL SRES-PM-001 at Appendix 3 to ANNEX A and it's associated DID SRES-PM-001 at Appendix 2 to ANNEX A;
 - 3.7.2.2 The PMP shall describe the Contractor's plan and processes for organizing, staffing, controlling and directing the activities, necessary to deliver the SRES and to satisfy the requirements of this SOW;
- 3.7.3 Project Meetings
 - 3.7.3.1 Meeting Organization and Coordination
 - 3.7.3.1.1 The Contractor shall ensure that data, personnel and facilities are available for each meeting;
 - 3.7.3.1.2 As appropriate, meetings may be held at the Contractor or DND facilities at the discretion of the TA;
 - 3.7.3.1.3 The Contractor's Project Manager shall be present at all meetings. If the Project Manager does not have final approval authority for decision making and changes, then the person that has that final approval authority shall also be present at all meetings;
 - 3.7.3.2 Kick-off Meeting
 - 3.7.3.2.1 The Contractor shall host a Kick-off Meeting no later than twenty-one (21) calendar days after contract award to review and secure a common understanding of the requirements expressed in the following:
 - 3.7.3.2.1.1 The Contract;
 - 3.7.3.2.1.2 SOW, both the technical requirements and the ILS requirements;
 - 3.7.3.2.1.3 Draft Project Management Plan; and
 - 3.7.3.2.1.4 Any other contractual or programmatic issues associated with the project as agreed between the TA, CA and the Contractor.
 - 3.7.3.2.2 A (hardcopy and softcopy) General Assembly drawing(s) (IAW section 7.4 of D-01-400-001/SG-000) of each of the SRES equipment groups (3.1.2.1, 3.1.2.2, 3.1.2.3, 3.1.2.4, and 3.1.2.5) and any other associated equipment, complete with dimensions and title block shall be provided at the kick-off meeting;
 - 3.7.3.3 Other meetings

- 3.7.3.3.1 The Contractor and/or the TA may schedule informal reviews, such as teleconferences, video conferences, briefings and technical interchange meetings, as required to help achieve the requirements of the Contract;
- 3.7.3.3.2 The Contractor shall formally submit to the TA and CA, all items that could have a contractual impact as they arise;
- 3.7.3.4 Meeting Documentation
 - 3.7.3.4.1 The Contractor shall prepare and deliver a meeting agenda for all meetings;
 - 3.7.3.4.2 The Contractor shall prepare meeting agendas IAW CDRL SRES-PM-002 at Appendix 3 to ANNEX A and it's associated DID SRES-PM-002 at Appendix 2 to ANNEX A;
 - 3.7.3.4.3 The Contractor shall record, prepare, and deliver the minutes of each meeting IAW CDRL SRES-PM-003 at Appendix 3 to ANNEX A and it's associated DID SRES-PM-003 at Appendix 2 to ANNEX A;

3.8 Integrated Logistics Support (ILS)

- 3.8.1 Maintenance Concept
 - 3.8.1.1 The Maintenance for the SRES will be carried by Technicians that will have the capability to carry out the full range of first and second level corrective maintenance tasks in the garrison, the field or in operation. First level maintenance includes preventive maintenance and servicing, preliminary diagnosis of faults and corrective maintenance tasks of minor nature (less than 4 hours for the maintenance task). Second level maintenance includes corrective maintenance by repairs or replacement of parts and assemblies (usually limited to 24 hours for the maintenance task).
- 3.8.2 Instruments, Decal, Data Plates and Warnings
 - 3.8.2.1 All instruments, decals and data plates shall be marked in metric units. Where international symbols are not possible, bilingual markings in English and Canadian French are required. Warning and precautionary data plates shall be provided in both official languages of Canada – English and Canadian French where necessary to protect personnel, and equipment.
- 3.8.3 Technical Publication Package
 - 3.8.3.1 The Contractor shall prepare and deliver a Technical Publication package for the SRES comprising of:
 - 3.8.3.1.1 Operator/Repair/Maintenance Manual;
 - 3.8.3.1.1.1 The Contractor shall deliver the Operator/Repair/Maintenance Manual, IAW CDRL SRES-ILS-201 at Appendix 3 and its associated DID SRES-ILS-201 at Appendix 2 to this Annex A, for the:
 - 3.8.3.1.1.1.1 Search/Investigation Equipment (para. 3.1.2.1);

- 3.8.3.1.1.1.2 Threat Removal/Mitigation Equipment (para. 3.1.2.3);
- 3.8.3.1.1.1.3 Lightweight Dismounted Operations Equipment (para. 3.1.2.4);
- 3.8.3.1.1.1.4 EOD Equipment Hand Truck (para. 3.1.2.5), and
- 3.8.3.1.1.1.5 Any other associated equipment.
- 3.8.3.1.2 Operator/Repair/Maintenance Non-Magnetic Equipment Manual
 - 3.8.3.1.2.1 The Contractor shall deliver the Operator/Repair/Maintenance Non-Magnetic Equipment Manual, IAW CDRL SRES-ILS-202 at Appendix 3 and its associated DID SRES-ILS-202 at Appendix 2 to this ANNEX A, for the Non-magnetic/sparking Search/Investigation Equipment (para. 3.1.2.2);
- 3.8.3.1.3 Quick Reference Cards
 - 3.8.3.1.3.1 The Contractor shall provide Quick Reference Cards, IAW CDRL SRES-ILS-203 at Appendix 3 and its associated DID SRES-ILS-203 at Appendix 2 to this ANNEX A, for each of the following components (and included within their respective transport containers):
 - 3.8.3.1.3.1.1 Search endoscope & mirror equipment (para. 3.3.1);
 - 3.8.3.1.3.1.2 Electronic stethoscope (para. 3.3.6);
 - 3.8.3.1.3.1.3 Building access equipment (para. 3.3.7);
 - 3.8.3.1.3.1.4 Vehicle access equipment (para. 3.3.8);
 - 3.8.3.1.3.1.5 General (Engineer) multi-piece tool equipment (para. 3.3.9);
 - 3.8.3.1.3.1.6 Non-magnetic/sparking tool equipment (para. 3.3.13);
 - 3.8.3.1.3.1.7 Non-magnetic/sparking excavation equipment (para. 3.3.14);
 - 3.8.3.1.3.1.8 Hook and line equipment (para. 3.3.15)
 - 3.8.3.1.3.1.9 Clamp equipment (para. 3.3.16), and
 - 3.8.3.1.3.1.10 Lightweight EOD tool and hook and line equipment.
- 3.8.3.1.4 Illustrated Parts Manual
 - 3.8.3.1.4.1 The Contractor shall deliver an Illustrated Parts Manual IAW CDRL SRES-ILS-204 at Appendix 3 and its associated DID SRES-ILS-204 at Appendix 2 to this ANNEX A;
- 3.8.3.2 The Contractor shall deliver all Technical Publications in English and French (Canadian);

- 3.8.3.3 The Contractor shall have all Technical Publication text translated by certified translators, such as members of an authorized provincial association of translators to ensure the quality of translated text;
- 3.8.3.4 The Contractor shall ensure all translations are consistent with approved DND terminology. Approved terminology sources, in order of priority, are as follows:
 - 3.8.3.4.1 Concise Oxford Dictionary (for English);
 - 3.8.3.4.2 Petit Robert (for French);
 - 3.8.3.4.3 Termium, PWGSC Translation Bureau Linguistic Data Bank (<http://www.termiumpius.gc.ca/>); and
 - 3.8.3.4.4 Any other available source approved by DND.
- 3.8.3.5 **Copyright Release:** The Department of National Defence reserves the right to reproduce, in part or in whole, all publications produced under 3.8.3 supply of the publications shall include a royalty-free, irrevocable copyright release with rights of translation in English and/or French (refer to A-AD-100-100/AG-000) with the limitation that the data shall not be released outside the Canadian Government if the supplier so states.
- 3.8.4 Provisioning Documentation
 - 3.8.4.1 The Contractor shall prepare and deliver Provisioning Documentation for the SRES comprising of:
 - 3.8.4.2 **Interim Spares List**
 - 3.8.4.2.1 The Contractor shall deliver an Interim Spares List IAW CDRL SRES-ILS-205 at Appendix 3 and its associated DID SRES-ILS-205 at Appendix 2 to this ANNEX A.
 - 3.8.4.3 **Provisioning Parts Breakdown**
 - 3.8.4.3.1 The Contractor shall deliver a Provisioning Parts Breakdown List IAW CDRL SRES-ILS-206 at Appendix 3 and its associated DID SRES-ILS-206 at Appendix 2 to this ANNEX A.
 - 3.8.4.4 **Supplementary Provisioning Technical Documentation**
 - 3.8.4.4.1 The Contractor shall deliver the Supplementary Provisioning Technical Documentation IAW CDRL SRES-ILS-207 at Appendix 3 and its associated DID SRES-ILS-207 at Appendix 2 to this ANNEX A.
 - 3.8.4.5 **Special Tool & Testing Equipment**
 - 3.8.4.5.1 The Contractor shall deliver a Special Tool and Test Equipment List IAW CDRL SRES-ILS-208 at Appendix 3 and its associated DID SRES-ILS-208 at Appendix 2 to this ANNEX A.
- 3.8.5 **Initial Provisioning Guidance Conference**

- 3.8.5.1 The Contractor shall host an Initial Provisioning Guidance Conference (IPGC), this will ideally occur along with the Kick-off Meeting (3.7.3.2), but if not, shall occur no later than twenty-one (21) calendar days after the Kick-off Meeting.
- 3.8.5.2 The purpose of the IPGC is to clarify and explain the requirements of the Provisioning Documentation referred to in the contract in preparation for the Initial Provisioning Conference. The IPGC team will normally consist of no more than two DND representatives and should last one day.
- 3.8.6 Initial Provisioning Conference**
- 3.8.6.1 The Contractor shall host an Initial Provisioning Conference (IPC), this will ideally occur after the Contractor has delivered all the Provisioning Documentation (PD).
- 3.8.6.2 The purpose of an Initial Provisioning Conference is to allow DND to verify that the Provisioning Documentation (PD) reflects the current and complete configuration of the equipment being procured by comparing it against full assembly drawings, and to select the range of spares required to support the system during an initial period of service of two years. For this purpose, the Contractor will be required to have available:
- 3.8.6.2.1 A suitable conference facility;
- 3.8.6.2.2 Engineering and product support assistance;
- 3.8.6.2.3 The equipment for physical examination, if feasible;
- 3.8.6.2.4 Engineering, reliability and maintainability data; and
- 3.8.6.2.5 Modification data, if applicable.
- 3.8.6.3 The Contractor shall provide a Meeting Agenda and record Minutes for the IPC consistent with the CDRL SRES-PM-002 and CDRL SRES-PM-003 and their associated DID SRES-PM-002 and DID SRES-PM-003.
- 3.8.7 Initial Operator/Maintainer Training**
- 3.8.7.1 The Contractor shall provide Operator and Maintenance Training (Train-the-Trainer type) to a select group of EOD/IEDD Operators at Canadian Forces School of Military Engineering, Gagetown N.B, Canada;
- 3.8.7.2 This training shall be a one time, five (5) day course given to up to twelve (12) qualified EOD/IEDD operators;
- 3.8.7.3 The training shall be provided in English by a bilingual instructor in order for him to be able to understand and answer questions from the class in both official languages; English and Canadian French.
- 3.8.7.4 The course shall include all training relating to setup, operation (including training scenarios), SRES component capabilities/restrictions, re-packing, safety precautions, and operator maintenance of the SRES;

- 3.8.7.5 All training materiel provided shall be available in English and Canadian French.
- 3.8.7.6 The Contractor shall prepare and provide a Training Package IAW CDRL SRES-ILS-209 at Appendix 3 and its associated DID SRES-ILS-209 at Appendix 2 to ANNEX A;
- 3.8.8 Packaging, Labels and Codes**
- 3.8.8.1 All parts and equipment supplied by the Contractor to DND, except the Interim Spares from 3.8.4.2 shall be packaged as per D-LM-008-001/SF-001. Preservation and Packaging Levels shall be selected based on criteria set out in Annex A of the referenced specification.
- 3.8.8.2 Packaging produced under 3.8.8.1 above shall be labeled as per D-LM-008-002/SF-001, using D-LM-008-011/SF-001 to prepare the required packaging and preservation codes.
- 3.8.8.2.1 The Contractor shall provide copies of the labels produced under 3.8.8.2 IAW CDRL SRES-ILS-210 at Appendix 3 to Annex A, and its associated DID SRES-ILS-210 at Appendix 2 to Annex A for review and approval prior to their production and use.
- 3.8.8.2.2 The Contractor shall provide a list of all Packaging Codes resolved under 3.8.8.2 above IAW CDRL SRES-ILS-210 at Appendix 3 to Annex A, and its associated DID SRES-ILS-210 at Appendix 2 to Annex A.
- 3.8.9 Identification Plates**
- 3.8.9.1 The Contractor shall provide all required identification plates IAW CDRL SRES-ILS-211 at Appendix 3 and its associated DID SRES-ILS-211 at Appendix 2 to this ANNEX A.
- 3.8.9.2 The Contractor shall ensure that all required identification plates are affixed to each component of the SRES prior to delivery.
- 3.8.10 Controlled Goods List**
- 3.8.10.1 Controlled Goods List: The Contractor shall provide a Controlled Goods list including the Demilitarization Code (DMC) IAW CDRL SRES-ILS-212 at Appendix 3 and its associated DID SRES-ILS-212 at Appendix 2 to ANNEX A.
- 3.8.10.2 The Contractor shall identify, for Initial Provisioning purposes, whether the end item, the components or sub-components are controlled goods.
- 3.8.10.3 The Contractor shall identify any components or sub-components that are specifically designed or modified for military purpose, and not spared as Controlled or Non-Controlled Goods to facilitate the production of Demilitarization Instructions. For items of US or Canadian origin that have been catalogued, the Demilitarization Code (DMC) will be provided.
- 3.8.11 Repair & Overhaul Plan**

- 3.8.11.1 Repair & Overhaul Plan: The Contractor shall provide a Repair and Overhaul (R&O) Plan IAW CDRL SRES-ILS-213 at Appendix 3 and its associated DID SRES-ILS-213 at Appendix 2 to ANNEX A.

4.0 CONTRACT DELIVERABLES

4.1 General

- 4.1.1 The Contractor shall ensure that the SRESs are delivered correctly adjusted, lubricated and serviced such that the components are ready for operation and transportation;

4.2 List of Deliverables

Item	Item Description	Qty	Option (up to)
1	Search/Investigation Equipment (para. 3.1.2.1)	42	30
2	Non-magnetic/sparking Search/Investigation Equipment (para. 3.1.2.2)	42	30
3	Threat Removal/Mitigation Equipment (para. 3.1.2.3)	42	30
4	Lightweight Dismounted Operations Equipment (para. 3.1.2.4)	42	42
5	EOD Equipment Hand Truck (para. 3.1.2.5)	42	30
6	Extra consumables for Post blast analysis equipment (para. 3.3.4.3)	200 sets	
7	Project Management Plan (para 3.7.2)	LOT	
8	General Assembly Drawing(s) (para. 3.7.3.2.2)	1	
9	Meeting Agenda (para 3.7.3.4)	LOT	
10	Meeting Minutes (para 3.7.3.4)	LOT	
11	Operator/Repair/Maintenance Equipment Manual (para 3.8.3.1.1)	LOT	LOT
12	Operator/Repair/Maintenance Non-Magnetic Equipment Manual (para. 3.8.3.1.2)	LOT	LOT
13	Quick Reference Cards (para. 3.8.3.1.3)	LOT	LOT
14	Illustrated Parts Manual (para 3.8.3.1.4)	LOT	
15A	Interim Spares List (para. 3.8.4.2)	LOT	
15B	Option to acquire Interim Spares after approval from DND		LOT
16	Provisioning Parts Breakdown (para. 3.8.4.3)	LOT	
17	Supplementary Provisioning Technical Documentation (para. 3.8.4.4)	LOT	
18	Special Tool & Testing Equipment (para 3.8.4.5)	LOT	
19	Training Package (para. 3.8.7.6)	LOT	

20	Packaging, Labels and Codes (para. 3.8.8)	LOT	
21	Identification Plates (para. 3.8.9)	LOT	LOT
22	Controlled Goods List (para 3.8.10)	LOT	
23	Repair & Overhaul Plan (para. 3.8.11)	LOT	

4.3 Data Deliverable List

- 4.3.1 The Contractor shall prepare and deliver all data required under the Contract as summarized in section 4.2;
- 4.3.2 The Contractor shall maintain and update all data deliverables, including plans and documents, as required for the duration of the Contract;

4.4 Data Format

- 4.4.1 All data delivered as part of this SOW, other than those with specific requirements, shall be prepared in the Contractor's own format. All documentation shall be submitted in hardcopy and in electronic format using software, which is authorized by the DND. Delivery media containing compressed files shall also contain the decompression software;
- 4.4.2 Unless otherwise specified as a specific requirement, the Contractor shall deliver all of the soft copies of data deliverables, in formats compatible with the office software currently in use by the DND as listed in Appendix 1 of Annex A – DND Office Software List;
- 4.4.3 Those compatible formats shall allow the files to be recognized, opened, and viewed or read in their intended form and format using DND's office software, as well as allowing the user to modify, select, copy and paste information from the files to other DND office software files;

4.5 Delivery Schedule

- 4.5.1 The Contractor shall meet the following delivery schedule for the SRES:
 - 4.5.1.1 First Delivery: Within one hundred eighty (180) calendar days following the Contract Award.
 - 4.5.1.1.1 First delivery shall include the training serial and twelve (12) each of the following SRES equipment:
 - 4.5.1.1.1.1 Search/Investigation Equipment (para. 3.1.2.1);
 - 4.5.1.1.1.2 Non-magnetic/sparking Search/Investigation Equipment (para. 3.1.2.2);
 - 4.5.1.1.1.3 Threat Removal/Mitigation Equipment (para. 3.1.2.3);
 - 4.5.1.1.1.4 Lightweight Dismounted Operations Equipment (para. 3.1.2.4), and
 - 4.5.1.1.1.5 EOD Equipment Hand Truck (para. 3.1.2.5).

- 4.5.1.1.2 First delivery shall only be initiated (will only be accepted) once the required data item deliverables are provided and accepted by DND. These consist of:
 - 4.5.1.1.2.1 Operator/Repair/Maintenance Equipment Manual;
 - 4.5.1.1.2.2 Operator/Repair/Maintenance Non-Magnetic Equipment Manual;
 - 4.5.1.1.2.3 Quick Reference Cards;
 - 4.5.1.1.2.4 Illustrated Parts Manual;
 - 4.5.1.1.2.5 Interim Spares List;
 - 4.5.1.1.2.6 Provisioning Parts Breakdown;
 - 4.5.1.1.2.7 Supplementary Provisioning Technical Documentation;
 - 4.5.1.1.2.8 Special Tool and Test Equipment;
 - 4.5.1.1.2.9 Training Package;
 - 4.5.1.1.2.10 Packaging, Labels and Codes;
 - 4.5.1.1.2.11 Identification Plates, and
 - 4.5.1.1.2.12 Controlled Goods List.
- 4.5.1.2 Last Delivery: the remaining SRES equipment and any other components within two hundred and seventy (270) calendar days following the Contract award.

APPENDIX 1 – DND OFFICE SOFTWARE LIST

This appendix lists the office software and operating system used by the DND TA:

- a) Microsoft (MS) Windows XP Professional Operating System (OS), Multilingual Pack, Service Pack 2;
- b) MS Internet Explorer (IE) 6.0 with 128 Bit Encryption and associated SP;
- c) MS Office 2003, Professional Edition, SP3, Multilanguage Pack (Word, Excel, Access, PowerPoint and Outlook);
- d) MS Project 2000;
- e) Quickview Plus 6.0;
- f) Adobe Acrobat 6.0;
- g) MS Visio 2000 (6.0);
- h) WinZip 8.1 SR-1; and
- i) Telelogic DOORS 8.1.