

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving - PWGSC / Réception des soumissions
- TPSGC
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0A1 / Noyau 0A1
Gatineau
Québec
K1A 0S5
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
Munitions Division (BK) / Division des munitions
(BK)
11 Laurier St./11, rue Laurier
8C2, Place du Portage, Phase III
Gatineau
Québec
K1A 0S5

Title - Sujet WIRELESS REMOTE FIRING DEVICE (RFD)	
Solicitation No. - N° de l'invitation W8476-145106/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client W8476-145106	Date 2015-01-16
GETS Reference No. - N° de référence de SEAG PW-\$\$BK-370-24796	
File No. - N° de dossier 370bk.W8476-145106	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-01-28	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Ruest(370BK), Joanne	Buyer Id - Id de l'acheteur 370bk
Telephone No. - N° de téléphone (819) 956-1773 ()	FAX No. - N° de FAX (819) 956-5650
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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

Solicitation No. - N° de l'invitation

W8476-145106/A

Amd. No. - N° de la modif.

003

Buyer ID - Id de l'acheteur

370bk

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

W8476-145106

File No. - N° du dossier

370bkW8476-145106

CCC No./N° CCC - FMS No/ N° VME

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Contract No. - N° du contrat W8476-145106/001/BK	Amd. No. - N° de la modif. 003	Buyer ID - Id de l'acheteur 370bk
Client Ref. No. - N° de réf. du client W8476-145106/A	File No. - N° du dossier 370bk - W8476-145106/A	

This Amendment # 3 is raised to answer bidders questions;

Q.3

It states in the RFP under Annex A, section 2.2.1, that any inconsistencies should be brought to TA attention. It has been identified that SOW section 3.10.2.1.4.1 refers to the incorrect 'IAW DID' & 'CDRL'.

- a. It presently reads 'IAW DID RFD-ILS-208', this should read 'IAW DID RFD-ILS-207'.
- b. It presently reads 'CDRL RFD-ILS-208', this should read 'CDRL RFD-ILS-207'.

A.3

The Bidder is correct – Annex A, section 3.10.2.1.4.1 should be written as the following:

3.10.2.1.4.1 The Contractor shall provide an Operator Training Package IAW DID RFD-ILS-207 at Appendix 1 and its associated CDRL RFD-ILS-207 at Appendix 2 to this annex.

Annex A will be corrected accordingly at sections 3.10.2.1.4.1 and 3.10.4.4.

Q.4

Can it be confirmed the full list of technical publications to be translated into Canadian French as stated under SOW section 3.10.2.2? This is to confirm that all the necessary documentation is presented as required.

A.4

Canada can confirm that the Technical Publications to be provided in English and Canadian French, as per Annex A section 3.10.2.2, are listed under Annex A section 3.10.2.1 and include:

1. Operator Quick Reference Card
2. Operator Manual
3. Maintenance and Parts Handbook, and
4. Operator Training Package.

Bidder should also be aware that the Identification Plates (RFD-ILS-209), although not a Technical Publication, shall also be delivered in English and Canadian French as is stated within the DID.

Q.5

There are three references to optional goods and services, within the RFP, SOW and Annexes. Two of them include different exercise periods, one year and two years after contract award. Could you please clarify the requirement?

PART 1 – GENERAL INFORMATION

1.2 “The Contractor grants to Canada the irrevocable option(s) to acquire the goods, services or both described at Annex ‘A’ Statement of Work for the Remote Firing Device with quantities detailed in Annex B – Contract End Items List of deliverables of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The Contracting Authority may exercise the option within one (1) year after contract award by sending written notice to the contractor.”

2.1 Optional Goods

“The Contractor grants to Canada the irrevocable option(s) to acquire the goods, services or both described at Annex B – Contract End Items List of deliverables of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.”

Annex B “Contract End Items for Remote Firing Device”

2.1.2 The Contractor shall deliver a total quantity of fifty two (52) RFD systems, with an option to acquire Special Tools and Test Equipment, after approval from DND, within two (2) years of contract award, including all associated accessories IAW the Contract.

A.5

Canada can confirm that the exercise period for the optional goods and services is **one (1) year** after contract award. As such, Annex B para 2.1.2 will be re-written to the following:

2.1.2 The Contractor shall deliver a total quantity of fifty-two (52) RFD systems, with an option to acquire Special Tools and Test Equipment and Spare Parts, after approval from DND, within one (1) year of contract award.

Q.6

Please clarify “all associated accessories IAW the Contract” as referenced in para 2.1.2 of Annex B. Does this relate to the 52 RFD systems or the Special Tools and Test Equipment? If the latter, it is not clear what these accessories are, unless it refers to section 10.1.2 of DID RFD-ILS-206. Please clarify.

A.6

Canada can confirm that “all associated accessories IAW the Contract” as referenced in Annex B para 2.1.2 is related to the 52 RFD systems. However, as that portion of the requirement is redundant, it will be removed so that Annex B para 2.1.2 will be written as the following:

2.1.2 The Contractor shall deliver a total quantity of fifty-two (52) RFD systems, with an option to acquire Special Tools and Test Equipment and Spare Parts, after approval from DND, within one (1) year of contract award.

Q.7

There is no reference to Line Item 21 of the Deliverables (Optional Spare Parts) in para 2.1.2 of Annex B. Please clarify the time line for exercising this option.

A.7

Canada can confirm that the time line for exercising the Option to acquire Spare Parts is within one (1) year of contract award (as is the case for the Option to acquire Special Tool & Testing Equipment). Annex B para 2.1.2 will be written as the following:

2.1.2 The Contractor shall deliver a total quantity of fifty-two (52) RFD systems, with an option to acquire Special Tools and Test Equipment and Spare Parts, after approval from DND, within one (1) year of contract award.

Q.8

Para 3.10.4.3 of the SOW (Training Session) requires the contractor to provide “all the materials and equipment required for Training Sessions”. Is the contractor to provide RFD systems for training, or will these be government-furnished equipment? If the proposed training includes the use of energetics (e.g. detonators, shock tube etc.) will these have to be provided by the Contractor or will these be government-furnished equipment? Will the contractor have to provide projection or other A/V equipment if required to deliver any portion of the training?

A.8

Canada can confirm that, for the Training Session, RFD systems, energetics (e.g. detonators, shock tube etc.), projection or other A/V equipment if required, will be government-furnished equipment.

Q.9

CDRLs RFD-ILS-201 (Operator Quick Reference Card), RFD-ILS-202 (Operator Manual), and RFD-ILS-203 (Maintenance and Parts Handbook) call for a final deliverable of 42 copies of each of these documents “Issued with RFD One Each”. Please clarify if these quantities should be increased to 52, or if the quantity of RFD systems required should read 42 rather than the 52 called up in para 2.1.2 of Annex B and as Line Item 1 on the list of deliverables.

A.9

Canada can confirm that the CDRLs RFD-ILS-201, RFD-ILS-202, and RFD-ILS-203 require a final deliverable of 52 copies of each of those documents. The Appendix 2 to Annex A CDRL will be amended accordingly.

Q.10

Would it be possible to extend the closing date by one week?

A. 10

The closing date will be changed from 19 January, 2015 to **28 January, 2015**

All other Terms and Conditions remain the same.

Canadian Forces Explosive Ordnance Disposal (EOD) Team Equipment

CONTRACT DATA REQUIREMENTS LIST

FOR

REMOTE FIRING DEVICE (RFD)

1.0 CONTRACT DATA REQUIREMENT LIST (CDRL) ITEM LIST

CDRL #	Title	DID #
RFD-PM-001	Project Management Plan	RFD-PM-001
RFD-PM-002	Meeting Agenda	RFD-PM-002
RFD-PM-003	Meeting Minutes	RFD-PM-003
RFD-SE-101	Application for Spectrum Supportability	RFD-SE-101
RFD-SE-102	Functional Hazard Analysis	RFD-SE-102
RFD-SE-103	Coding/Decoding Functional Diagram & Explanation	RFD-SE-103
RFD-ILS-201	Operator Quick Reference Card	RFD-ILS-201
RFD-ILS-202	Operator Manual	RFD-ILS-202
RFD-ILS-203	Maintenance and Parts Handbook	RFD-ILS-203
RFD-ILS-204	Provisioning Parts Breakdown	RFD-ILS-204
RFD-ILS-205	Supplementary Provisioning Technical Documentation	RFD-ILS-205
RFD-ILS-206	Special Tool and Testing Equipment	RFD-ILS-206
RFD-ILS-207	Training Package	RFD-ILS-207
RFD-ILS-208	Packaging, Labels and Codes	RFD-ILS-208
RFD-ILS-209	Identification Plates	RFD-ILS-209
RFD-ILS-210	Top Level Assembly Drawing	RFD-ILS-205

CONTRACT DATA REQUIREMENT LIST (CDRL) DEFINITION

The following section defines the various blocks of information found on the CDRL forms:

BLOCK A – SYSTEM / ITEM

Provides the name of the System or Item for which the CDRL applies.

BLOCK B – CONTRACT / RFP NUMBER

Identifies the Contract or RFP for which the CDRL applies.

BLOCK C – SOW IDENTIFIER

Identifies the SOW for which the CDRL applies.

BLOCK D – DATA CATEGORY

Identifies the general category of the data for which the CDRL is being prepared.

BLOCK E – CONTRACTOR

Identifies the Contractor responsible for the delivery of the CDRL.

BLOCK 1 - ITEM NUMBER

The Item Number is a sequential three-digit number to uniquely identify the individual data item (CDRL number). Note that the 001-099 series is reserved to Project Management (PM) CDRLs, the 101-199 series is reserved to Systems Engineering (SE) CDRLs and the 202-299 series is reserved to Integrated Logistics Support (ILS) CDRLs.

BLOCK 2 - TITLE OR DESCRIPTION OF DATA

The title of the data item being referred to in this CDRL.

BLOCK 3 - SUBTITLE

This block contains the subtitle of the data item for the CDRL if the title requires further identification.

BLOCK 4 - AUTHORITY (DATA ITEM NUMBER)

Indicates the Data Item Description (DID) number to which this CDRL refers.

BLOCK 5 - CONTRACT REFERENCE

The specific paragraph number of the Contract Demand, Statement of Work, Request for Proposal, Specification, or other applicable document to assist in identifying the work effort associated with the data item.

BLOCK 6 – REQUIRING OFFICE

Identifies the technical office of primary interest responsible for defining the data requirement, reviewing, acceptance and/or approval of the data item, and ensuring the adequacy of the delivered data.

BLOCK 7 - INSPECTION

This block indicates the requirement for INSPECTION and ACCEPTANCE of the data. The following codes are used:

CODE	INSPECTION	ACCEPTANCE
SS	Source	Source
DD	Destination	Destination
SD	Source	Destination
DS	Destination	Source

If no applicable code is available for the data item, this block is marked as "N/A".

BLOCK 8 - APPROVAL CODE (APP CODE)

Indicates items of critical data requiring specific advanced written approval, such as test plans, identified by placing an "A" in this field. These data may require submission of a preliminary draft prior to publication of a final document. When a preliminary draft is required, Block 16 shall show the length of time for Government approval/disapproval and when final is to be delivered. Block 16 also indicates the extent of the approval requirements, eg, approval of technical content and/or format.

If advance approval is not required, this block is marked as "N/A".

BLOCK 9 - INPUT

Indicates if data are the integrated results of specific inputs from associated contractors by placing an "X" in this block. Otherwise the block is left blank.

BLOCK 10 - FREQUENCY

This block indicates the frequency of the delivered data. The following frequency codes are used:

ANNLY	Annually
ASGEN	As generated
ASREQ	As required
BI-MO	Every 2 months
BI-WK	Every 2 weeks
DAILY	Daily
MNTHY	Monthly
ONE/R	One time with revisions
OTIME	One time
QRTLY	Quarterly
R/ASR	Revisions as required
SEMIA	Semi-annually
WKLY	Weekly

BLOCK 11 - AS OF DATE

For data items that are submitted only once, the "as of" date or associated constraint is indicated. The following abbreviations are used for the constraints:

ASGEN	As generated
ASREQ	As required
DACA	Days after contract award
MACA	Months after contract award
EOM	End of month
EOQ	End of quarter

If the as-of date is not applicable, leave this block blank.

BLOCK 12 - DATE OF 1ST SUBMISSION

The initial submission date or associated constraint for the 1st submission of the data item is indicated in this block using typical abbreviations as listed above under Block 11.

BLOCK 13 - DATE OF SUBSEQUENT SUBMISSION / EVENT

The date(s) of subsequent submission(s) or associated constraint(s) of the data item is indicated in this block. The abbreviations used for the constraints are as listed above under Block 11. If no subsequent submission or associated are not involved, this block is marked as "N/A".

BLOCK 14 - DISTRIBUTION AND ADDRESSEES

Indicates the addressees and the respective number of copies (hard copies and soft copies separately), for both the initial or original submissions (Sub-Block "Initial"), and for the final or subsequent submissions (Sub-Block "Final"), for which the data item is required.

Column A contains addresses. The number of initial hard and soft copies for each addressee (as applicable) is indicated in Column B – INITIAL – Hard Copy and Column B – FINAL – Soft Copy.

BLOCK 15 - TOTAL

Indicates the total number of copies (hard copies and soft copies separately) required for both the original submission and for the final submission.

BLOCK 16 - REMARKS

Provides additional or clarifying information. Where other blocks refer to Block 16 – Remarks, then the associated block number is indicated with the information, and a "See Block 16" note would be entered in the referring block.

BLOCKS 17 - 19

These blocks are for Contractor input as required as part of the RFP or Contract. These blocks are not used by TA.

BLOCK - PREPARED BY

This block identifies the CDRL originator's name and designation.

BLOCK - DATE

This block indicates the date of the CDRL approval.

BLOCK - APPROVED BY

This block contains the identification information, such as name and designation, of the person approving the CDRL.

Appendix 2
To: Annex A
To: W8476-145106
Dated: 9 Jan 2015

CONTRACT DATA REQUIREMENTS LIST					DND Form 1413															
A. SYSTEM / ITEM RFD System					B. CONTRACT / RFP NUMBER W8476-145106															
C. SOW IDENTIFIER RFD SYSTEM SOW		D. DATA CATEGORY Management Data			E. CONTRACTOR TBD															
1. ITEM NUMBER CDRL RFD-PM-001		2. TITLE OR DESCRIPTION OF DATA Project Management Plan (PMP)			3. SUBTITLE N/A															
4. AUTHORITY (Data Item Number) RFD-PM-001		5. CONTRACT REFERENCE ANNEX A - SOW Para. 3.9.2			6. REQUIRING OFFICE DND TA															
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE/R	12. DATE OF 1 st SUBMISSION See Block 16		14. DISTRIBUTION and ADDRESSEES															
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUB SUBMISSION See Block 16		<table border="1"> <tr> <td rowspan="3">A. ADDRESS</td> <td colspan="4">B. COPIES</td> </tr> <tr> <td colspan="2">DRAFT</td> <td colspan="2">FINAL</td> </tr> <tr> <td>Hard Copy</td> <td>Soft Copy</td> <td>Hard Copy</td> <td>Soft Copy</td> </tr> </table>				A. ADDRESS	B. COPIES				DRAFT		FINAL		Hard Copy	Soft Copy	Hard Copy
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16. REMARKS Block 12: A draft PMP shall be submitted for review by Canada within thirty (30) calendar days after the Kick-off Meeting. Response Time: Comments on the PMP will be provided by Canada within fourteen (14) calendar days of receipt. Block 13: The updated PMP addressing the comments from Canada shall be submitted for acceptance within fourteen (14) calendar days after the receipt after the receipt of Canada's comments.					PWGSC CA	0	0	1	1											
					DND TA	1	1	1	1											
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Appendix 2
To: Annex A
To: W8476-145106
Dated: 9 Jan 2015

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Appendix 2
To: Annex A
To: W8476-145106
Dated: 9 Jan 2015

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1. ITEM NUMBER CDRL RFD-PM-003		2. TITLE OR DESCRIPTION OF DATA Meeting Minutes			3. SUBTITLE N/A																																																																																																													
4. AUTHORITY (Data Item Number) RFD-PM-003		5. CONTRACT REFERENCE SOW Annex A Para. 3.9.3.4.1.2			6. REQUIRING OFFICE DND TA																																																																																																													
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Appendix 2
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To: W8476-145106
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C. SOW IDENTIFIER RFD SYSTEM SOW		D. DATA CATEGORY Engineering Data			E. CONTRACTOR TBD															
1. ITEM NUMBER CDRL RFD-SE-101		2. TITLE OR DESCRIPTION OF DATA Application for Spectrum Supportability			3. SUBTITLE N/A															
4. AUTHORITY (Data Item Number) RFD-SE-101		5. CONTRACT REFERENCE SOW Annex A Para. 3.4.1.12, and SOW Annex D			6. REQUIRING OFFICE DND TA															
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16. REMARKS Block 12. The Application for Spectrum Supportability (Annex D) shall be submitted for review by Canada no later than twenty-one (21) calendar days after the Kick-off Meeting. Response Time: Comments on the Application for Spectrum Supportability will be provided by Canada no later than fourteen (14) calendar days after receipt of the draft Application. Block 13: The revised Application for Spectrum Supportability addressing Canada's comments shall be submitted for acceptance no later than fourteen (14) calendar days after the receipt of Canada's comments.					PWGSC CA	0	0	1	1											
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1. ITEM NUMBER CDRL RFD-SE-102		2. TITLE OR DESCRIPTION OF DATA Functional Hazard Analysis			3. SUBTITLE N/A																																																																																																				
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1. ITEM NUMBER CDRL RFD-SE-103		2. TITLE OR DESCRIPTION OF DATA Coding/Decoding Functional Diagram & Explanation			3. SUBTITLE N/A															
4. AUTHORITY (Data Item Number) RFD-SE-103		5. CONTRACT REFERENCE ANNEX A - SOW Para. 3.4.1.2.1			6. REQUIRING OFFICE DND TA															
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16. REMARKS <u>Block 12:</u> Draft Coding/Decoding Functional Diagram & Explanation shall be submitted for review no later than forty-five (45) calendar days after the kick-off meeting. <u>Response Time:</u> Comments on the draft Coding/Decoding Functional Diagram & Explanation will be provided by Canada within fourteen (14) calendar days of receipt of submission. <u>Block 13:</u> The revised Coding/Decoding Functional Diagram & Explanation, addressing comments from Canada, shall be submitted for review and possible acceptance within fourteen (14) calendar days after the receipt of comments.					DND TA	1	1	1	1											
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1. ITEM NUMBER CDRL RFD-ILS-201		2. TITLE OR DESCRIPTION OF DATA Operator Quick Reference Card		3. SUBTITLE N/A				
4. AUTHORITY (Data Item Number) RFD-ILS-201		5. CONTRACT REFERENCE SOW Annex A Para. 3.10.2.1.1		6. REQUIRING OFFICE RFD SYSTEM ILS Manager				
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16. REMARKS <u>Block 12:</u> The Contractor shall provide a draft English Operator Quick Reference Card (OQRC) for review by Canada at the same time as the submission of the Operator Manual. <u>Response Time:</u> Comments on the OQRC will be provided by Canada no later than twenty-one (21) calendar days after receipt of the draft submission. <u>Block 13:</u> The revised Operator Quick Reference Card addressing Canada's comments shall be submitted for acceptance no later than twenty-one (21) calendar days after the receipt of Canada's comments. <u>Block 12 (Final):</u> The Contractor shall provide a draft Bilingual Operator Quick Reference Card for review by Canada at the same time as the submission of the Bilingual Operator Manual. <u>Response Time:</u> Comments on the draft Bilingual Operator Quick Reference Card will be provided by Canada no later than fourteen (14) calendar days after receipt of the submission. <u>Block 13:</u> The revised Bilingual Operator Quick Reference Card, addressing Canada's comments shall be provided to Canada for acceptance no later than fourteen (14) calendar days after the receipt of comments.				PWGSC CA	0	0	1	1
				DND ILSM	1	1	1	1
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1. ITEM NUMBER CDRL RFD-ILS-203			2. TITLE OR DESCRIPTION OF DATA Maintenance and Parts Handbook			3. SUBTITLE N/A																			
4. AUTHORITY (Data Item Number) RFD-ILS-203			5. CONTRACT REFERENCE SOW Annex A Para. 3.10.2.1.3			6. REQUIRING OFFICE RFD SYSTEM ILS Manager																			
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16. REMARKS <u>Block 12:</u> The Contractor shall provide a draft Maintenance and Parts Handbook for review by Canada no later than sixty-three (63) calendar days after the Kick off Meeting date. <u>Response Time:</u> Comments on the Maintenance and Parts Handbook will be provided by Canada no later than twenty-one (21) calendar days after receipt of draft submission. <u>Block 13:</u> The revised Maintenance and Parts Handbook, addressing Canada's comments shall be submitted for acceptance no later than twenty-one (14) calendar days after the receipt of Canada's comments. <u>Block 12 (Final):</u> The Contractor shall provide a draft Bilingual Maintenance and Parts Handbook for review by Canada no later than twenty-eight (28) calendar days after the acceptance of the English Maintenance and Parts Handbook. <u>Response Time:</u> Comments on the draft Bilingual Maintenance and Parts Handbook will be provided by Canada no later than fourteen (14) calendar days after receipt of the submission. <u>Block 13:</u> The revised Bilingual Maintenance and Parts Handbook, addressing Canada's comments shall be provided to Canada for acceptance no later than fourteen (14) calendar days after the receipt of comments.						PWGSC CA	0	0	1	1															
						DND ILSM	1	1	1	1															
						Issued with RFD One each	0	0	52	0															
PREPARED BY DND RFD SYSTEM ILS Technician			APPROVED BY DND RFD System ILS Manager																						
DATE 17 January 2014			DATE 17 January 2014																						
17. CONTRACT FILE/DOC NUMBER		18. ESTIMATED NO OF PAGES		19. ESTIMATED PRICE																					
						15. TOTAL	1	1	54	2															

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To: Annex A
To: W8476-145106
Dated: 9 Jan 2015

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1. ITEM NUMBER CDRL RFD-ILS-204		2. TITLE OR DESCRIPTION OF DATA Provisioning Parts Breakdown			3. SUBTITLE N/A																					
4. AUTHORITY (Data Item Number) RFD-ILS-204		5. CONTRACT REFERENCE SOW Annex A Para. 3.10.3.1.1			6. REQUIRING OFFICE RFD SYSTEM ILS Manager																					
7. INSPECTION DD	9. INPUT	10. FREQUENCY ONE/R	12. DATE OF 1 st SUBMISSION See Block 16		14. DISTRIBUTION and ADDRESSEES																					
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4. AUTHORITY (Data Item Number) RFD-ILS-205		5. CONTRACT REFERENCE SOW Annex A Para. 3.10.3.1.2			6. REQUIRING OFFICE RFD SYSTEM ILS Manager																																																																																						
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1. ITEM NUMBER CDRL RFD-ILS-206		2. TITLE OR DESCRIPTION OF DATA Special Tool & Test Equipment List			3. SUBTITLE N/A																																																																				
4. AUTHORITY (Data Item Number) RFD-ILS-206		5. CONTRACT REFERENCE SOW Annex A Para. 3.10.3.1.3			6. REQUIRING OFFICE RFD SYSTEM ILS Manager																																																																				
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1. ITEM NUMBER CDRL RFD-ILS-207		2. TITLE OR DESCRIPTION OF DATA Operator Training Package			3. SUBTITLE N/A															
4. AUTHORITY (Data Item Number) RFD-ILS-207		5. CONTRACT REFERENCE SOW Annex A Para. 3.10.2.1.4			6. REQUIRING OFFICE RFD SYSTEM ILS Manager															
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16. REMARKS <u>Block 12:</u> The Contractor shall provide a draft Operator Training Package for review by Canada within the fourteen (14) calendar days following the acceptance of the English version of the Operator Manual. <u>Response Time:</u> Comments on the Operator Training Package will be provided by Canada no later than twenty-one (21) calendar days after receipt of draft submission. <u>Block 13:</u> The revised Operator Training Package, addressing Canada's comments shall be submitted for acceptance no later than fourteen (14) calendar days after the receipt of Canada's comments. <u>Block 12 (Final):</u> The Contractor shall provide a draft Bilingual Operator Training Package for review by Canada within the twenty-one (21) calendar days after the acceptance of the Bilingual Operator Manual. <u>Response Time:</u> Comments on the draft Bilingual Operator Training Package will be provided by Canada no later than fourteen (14) calendar days after receipt of the submission. <u>Block 13:</u> The revised Bilingual Operator Training Package, addressing Canada's comments shall be provided to Canada for acceptance no later than fourteen (14) calendar days after the receipt of comments.					PWGSC CA	0	0	1	1											
					DND ILSM	1	1	2	2											
PREPARED BY DND RFD SYSTEM ILS Technician					APPROVED BY DND RFD System ILS Manager															
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1. ITEM NUMBER CDRL RFD-ILS-208			2. TITLE OR DESCRIPTION OF DATA Packaging, Labels and Codes		3. SUBTITLE N/A																				
4. AUTHORITY (Data Item Number) RFD-ILS-208			5. CONTRACT REFERENCE ANNEX A - SOW Para. 3.10.5		6. REQUIRING OFFICE DND ILS Manager																				
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16. REMARKS <u>Block 12:</u> The Packaging, Labels and Codes shall be submitted for evaluation and review between zero (0) and twenty-eight (28) calendar days following Canada's acceptance of the PPB (RFD-ILS-204). <u>Response Time:</u> Comments on Packaging, Labels and Codes will be provided by Canada within twenty-one (21) calendar days of receipt of submission. <u>Block 13:</u> The revised Packaging, Labels and Codes, addressing the comments from Canada, shall be submitted for acceptance within fourteen (14) calendar days of receipt of comments. Revisions/Additions to the Packaging, Labels and Codes shall also be provided once a range of spares are chosen from the PPB (RFD-ILS-204) by DND to support the equipment.					DND ILSM	1	1	1	1																
					PWGSC CA	0	0	1	1																
PREPARED BY DND RFD System ILS Technician			APPROVED BY DND RFD System ILS Manager																						
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<p><u>Block 12 (Template)</u>: The Contractor shall provide a draft Identification Plates design template for review by Canada no later than twenty-eight (28) calendar days after the Kick off Meeting date.</p> <p><u>Response Time</u>: Comments on the Identification Plates design template will be provided by Canada no later than fourteen (14) calendar days after receipt of draft design submission.</p> <p><u>Block 13</u>: The revised Identification Plates design template, addressing Canada's comments shall be submitted for acceptance no later than fourteen (14) calendar days after the receipt of Canada's comments.</p> <p><u>Block 12 (Final)</u>: The Contractor shall provide all draft populated Identification Plate designs for review by Canada no later than twenty-eight (28) calendar days after acceptance of the Identification Plates template design.</p> <p><u>Response Time</u>: Comments on the populated Identification Plate designs will be provided by Canada no later than twenty-one (21) calendar days after receipt of draft submission.</p> <p><u>Block 13</u>: The revised Identification Plates designs, addressing Canada's comments, shall be submitted for acceptance no later than fourteen (14) calendar days after the receipt of Canada's comments.</p>																																																																																																													
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Appendix 2
To: Annex A
To: W8476-145106
Dated: 9 Jan 2015

CONTRACT DATA REQUIREMENTS LIST						DND Form 1413																					
A. SYSTEM / ITEM RFD System					B. CONTRACT / RFP NUMBER W8476-145106																						
C. SOW IDENTIFIER RFD SYSTEM SOW			D. DATA CATEGORY Integrated Logistics Support			E. CONTRACTOR TBD																					
1. ITEM NUMBER CDRL RFD-ILS-210			2. TITLE OR DESCRIPTION OF DATA Top Level Assembly Drawing			3. SUBTITLE N/A																					
4. AUTHORITY (Data Item Number) DID RFD-ILS-205			5. CONTRACT REFERENCE SOW Annex A Para. 3.9.3.2.2			6. REQUIRING OFFICE RFD SYSTEM ILS Manager																					
7. INSPECTION DD		9. INPUT		10. FREQUENCY ONE/R		12. DATE OF 1 st SUBMISSION See Block 16		14. DISTRIBUTION and ADDRESSEES																			
8. APP CODE A				11. AS OF DATE N/A		13. DATE OF SUB-SUBMISSION See Block 16		<table border="1"> <tr> <td colspan="2">A. ADDRESS</td> <td colspan="4">B. COPIES</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">DRAFT</td> <td colspan="2">FINAL</td> </tr> <tr> <td></td> <td></td> <td>Hard Copy</td> <td>Soft Copy</td> <td>Hard Copy</td> <td>Soft Copy</td> </tr> </table>		A. ADDRESS		B. COPIES						DRAFT		FINAL				Hard Copy	Soft Copy	Hard Copy	Soft Copy
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16. REMARKS <u>Block 12: First Submission:</u> The Contractor shall provide a draft Top Level Assembly Drawing (TLAD) for review by Canada during the Kick-Off Meeting (Annex A – SOW para 3.9.3.2) <u>Response Time:</u> Comments on the TLAD will be provided by Canada no later than twenty-one (21) calendar days after receipt of draft submission. <u>Block 13:</u> The revised TLAD, addressing Canada's comments shall be submitted for acceptance no later than fourteen (14) calendar days following receipt of comments from Canada.						DND ILSM		1	1	1	1																
						DSCO		0	1	0	1																
						PWGSC CA		0	0	0	1																
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STATEMENT OF WORK

FOR

REMOTE FIRING DEVICE

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Related Appendixes & Annex Documents:

Appendix 1 to Annex A: Data Item Description (DID) for Remote Firing Device

Appendix 2 to Annex A: Contract Data Requirements List (CDRL) for Remote Firing Device

Annex B: Contract End Items List for Remote Firing Device

Annex D: Application for Spectrum Supportability (DND 552 Form) for Remote Firing Device

1.0 SCOPE

1.1 Purpose

- 1.1.1 The purpose of this Statement of Work is to define the work requirements and specifications for the procurement of a wireless remote firing device (RFD) system to initiate explosive charges.

1.2 Background

- 1.2.1 Experience gained over the past decade by the Canadian Armed Forces (CAF) units on the ground in Afghanistan fighting insurgents whose weapons of choice were improvised explosive devices (IED) has demonstrated that specialized groups such as explosive ordnance disposal (EOD) teams must be equipped with a multitude of tools including means to remotely and wirelessly initiate explosive charges at close range for dismounted operations and occasionally perform demolition tasks.
- 1.2.2 Under fire in a theatre of operations, there is usually very little time available for EOD operators to dispose of IED. As time on task is of essence, it will not always be possible for operators to recover a radio firing device receiver following initiation of an explosive charge, or the activation of a barrel or water bottle disruptor. Therefore, it is necessary for the RFD receivers to be relatively inexpensive so to be considered disposable, although they will normally be recovered and reused.

1.3 Intended Use

- 1.3.1 The RFD system will be used to remotely initiate electro-explosive devices (EED) (electric detonators, barrel disruptor's cartridges, etc) via short length firing cable, and non-electric detonators via shock tube.

1.4 Acronyms and Abbreviations

ABCANZ	American, British, Canadian, Australian, New Zealand
AC	Alternating Current
AOP	Allied Ordnance Publication
CA	Contracting Authority
CAF	Canadian Armed Forces
CDRL	Contract Data Requirements List
CEIL	Contract End Item List
CFB	Canadian Forces Base
CFSS	Canadian Forces Supply System
CFTO	Canadian Forces Technical Order
cm	centimetre
COTS	Commercial-off-the-Shelf
DC	Direct Current
DCSEM	Director Combat Support Equipment Management
DGLEPM	Director General Land Equipment Program Management
DID	Data Item Description
DND	Department of National Defence
ECCN	Export Control Classification Number
ECL	Export Control List
EED	Electro-explosive Device

EHS	Environmental Health and Safety
EMC	Electro-magnetic Compatibility
EMI	Electro-magnetic Interference
EOD	Explosive Ordnance Disposal
ESD	Electrostatic Discharge
GHz	Giga-Hertz
HERO	Hazards of Electromagnetic Radiation to Ordnance
hrs	hours
IAW	In Accordance With
IED	Improvised Explosive Device
ILS	Integrated Logistics Support
IP	Ingress Protection
KHz	Kilo-hertz
Lbs	Pounds
LOS	Line-of-Sight
MHz	Mega-Hertz
ms	Millisecond
NATO	North Atlantic Treaty Organization
NSN	NATO Stock Number
PHST	Packaging, Handling, Storage and Transportation
PMP	Project Management Plan
PWGSC	Public Works and Government Services Canada
R&O	Repair & Overhaul
RF	Radio Frequency
RFD	Remote Firing Device
RFP	Request for Proposal
Rx	Receiver
SOW	Statement of Work
SPTD	Supplementary Provisioning Technical Documentation
STANAG	Standing NATO Agreement
STTE	Special Tools and Test Equipment
TA	Technical Authority
TAC	Technical Acceptance Certificate
Tx	Transmitter
UHF	Ultra-High Frequency
VAC	Volt Alternative Current
VDC	Volt Direct Current
VHF	Very-High Frequency

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:

REFERENCE NUMBER	DATE OF PROMULGATION	TITLE
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
B-GT-D35-001/AG-000	2006-07-10	DNDP 35 Management of the Radio Frequency Spectrum
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
C-04-007-005/AG-000		Military Guide for: Selection of Lubricants, Power Transmission Fluids and Corrosion Preventatives for Use in Land Equipment Systems
C-55-040-001/TS-001		Safety Precautions and Incident Prevention Instructions - Radio Frequency Safety Program
DAOD 3026-0	2012-05-04	Radio Frequency Safety
DAOD 3026-1	2012-05-04	Radio Frequency Safety Program
D-01-100-203/SF-000		Specification - Preparation of Operating Instructions
D-01-100-204/SF-000		Specification - Preparation of Preventive Maintenance Instructions
D-01-100-205/SF-000		Specification - Preparation of Corrective Maintenance Instructions

D-01-100-207/SF-002		Specification - Preparation of Interim Illustrated Parts Manuals for Land Equipments
D-01-100-214/SF-000	2002-05-01	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-01-400-002/SF-000	1983-11-30	Specification for Levels of Engineering Drawings and Associated Lists
D-02-002-001/SG-001		Standard – Identification Marking of Canadian Military Property
D-LM-008-001/SF-001	1983-02-03	Methods of Packaging
D-LM-008-002/SF-001	1991-08-01	Specification for Marking for Storage and Shipment
D-LM-008-011/SF-001	1988-11-10	Preparation and Use of Packaging Requirements Codes
AECTP 300	Ed. 3 – Jan 2006	Allied Environmental Conditions and Test Publications – Climatic Environmental Tests
AECTP 400	Ed. 3 – Jan 2006	Allied Environmental Conditions and Test Publications – Mechanical Environmental Tests
DEF STAN 00-35 (Part 3)	Issue 4 – Sept 2006	Environmental Handbook for Defence Material – Part 3 – Environmental Test Methods
DEF STAN 61-12 (Part 17)	Issue 1 – Dec 6, 1978	Part 17: Cables, Special Purpose, Electrical (for Detonator Firing Circuits)
DEF STAN 59-114	Issue 1 – Jan 2012	Safety Principles for Electrical Circuits in Systems Incorporating Explosive Components
IEC 61000-4-2		International Standard: Electromagnetic Compatibility (EMC) – part 4-2: - Testing and Measurement Techniques – Electrostatic Discharge Immunity Test
STANAG 2818		Demolition Material: Design, Testing and Assessments
MIL-STD-331C		Department of Defence Test Method Standard: Fuze and Fuze Components, Environmental and Performance Tests
MIL-STD-461E		Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment

MIL-DTL-45468	Rev F. Aug 2012	Cap, Blasting: Electric – M6 Parts for, and loading, assembling and packaging
NEMA IEC 60529		Degrees of Protection Provided by Enclosures - IP Code
Health Canada, Safety Code 6		Limits of Human Exposure to Radiofrequency Fields in the Frequency Range from 3 khz to 300 ghz

2.2 Order of Precedence

- 2.2.1 Unless otherwise specified, the issue or amendments to the documents for this contract shall be those in effect on the date of contract award. The Contractor shall bring to the attention of the Technical Authority (TA) any perceived inconsistencies between the SOW and the documents attached in the Appendixes and Annexes referenced in this SOW. In the event of conflicts between the content in this SOW and the referenced documents, the content of this SOW shall take precedence.

3.0 TECHNICAL REQUIREMENTS

3.1 Overview

- 3.1.1 The Contractor shall comply with all specified requirements stated in this section for the requested RFD system IAW the detailed quantities listed in Annex B: Contract End Items List (CEIL), and the delivery schedule within the contract.
- 3.1.2 The Contractor shall provide an RFD system consisting of the following components, further described in sub-sections following this one:
 - 3.1.2.1 One (1) radio frequency (RF) transmitter;
 - 3.1.2.2 Four (4) RF receivers to fire Electro-explosive Devices (EED) via firing cable;
 - 3.1.2.3 One (1) RF receiver to fire explosive charges via shock tube;
 - 3.1.2.4 One (1) spool of firing cable (25m+/-0.5m length of cable);
 - 3.1.2.5 Associated Tools and Equipment to test and setup the RFD system, as applicable;
 - 3.1.2.6 One (1) hard Carry Case for the above items;
 - 3.1.2.7 **If required**, see para. 3.4.3, one (1) Extended distance transmitter antenna for demolition tasks; and
 - 3.1.2.8 One (1) hard Carry Case for the Extended distance transmitter antenna, **if provided**.
- 3.1.3 The Contractor shall deliver publications for the RFD system to reflect the delivered system configuration in accordance with (IAW) sub-section 3.10 – *Integrated Logistics Support* – of this Annex.
- 3.1.4 The Contractor shall deliver training materials and conduct training for the system operation IAW sub-section 3.10 – *Integrated Logistics Support* – of this Annex.
- 3.1.5 The RFD system deliverables shall be in accordance with the Contract Deliverables as stated in Annex B – *Contract End Items List* – of this contract.

3.2 System Characteristics

3.2.1 General

- 3.2.1.1 The RFD system requirements shall be met by current commercial or military off-the-shelf technology.
- 3.2.1.2 The RFD system shall be based on proven, fielded equipment that is in service with a North Atlantic Treaty Organization (NATO) or American, British, Canadian, Australian, New Zealand (ABCANZ) military partner, or law enforcement agencies of those countries.

3.2.2 Design

3.2.2.1 The RFD system shall consist of hand-held paired (matched) radio transmitter and receivers designed to:

3.2.2.1.1 Initiate EED (electric detonators, barrel disruptors' cartridges, etc), at short range (like those intended for breaching operations), using a firing cable.

3.2.2.1.2 Initiate non-electric detonators via shock tube.

3.2.2.2 The RFD system transmitters shall only initiate the receivers with which they are paired, and not the receivers of any of the other transmitters.

3.2.2.3 The RFD system transmitters and receivers pairing (matching) shall be set at the factory, after being granted Spectrum Supportability IAW 3.4.1.12, and shall not be end-user adjustable.

3.2.3 Service Life

3.2.3.1 The service life of the RFD system shall be no less than ten (10) years.

3.2.4 Operational Clothing Compatibility

3.2.4.1 The RFD system shall be useable by an operator wearing summer or winter environment combat clothing, or an EOD bomb suit ensemble without impeding setting-up and operation.

3.2.5 Transportability

3.2.5.1 The RFD system shall be transportable by commercial and military fixed and rotary wing aircrafts, cargo ships, rail, and wheeled or tracked vehicles on roads and cross-country.

3.3 Physical Characteristics

3.3.1 Weight

3.3.1.1 The RFD system weight, excluding spool of firing cable, excluding associated tools and equipment, and excluding hard Carry Case(s), shall not exceed five (5) kg.

3.3.1.2 The RFD transmitter (Tx), excluding batteries, shall not exceed one (1) kg.

3.3.1.3 The RFD receiver (Rx), (both firing cable or shock tube type) excluding batteries, shall not exceed four hundred (400) grams.

3.3.2 Dimensions

3.3.2.1 One (1) RFD Tx shall fit in the Canadian Army load carrying (tactical) vest utility pouch measuring 14cm (width) x 7 (depth) cm x 17 (height) cm.

3.3.2.2 All five (5) RFD Rx (Four (4) RFD Rx to fire Electro-explosive Devices (EED) and one (1) RF Rx to fire explosive charges via shock tube) shall fit in the Canadian Army Tactical Day Pack external pouch measuring 18cm (width) x 10cm (depth) cm x 22cm (height).

3.3.3 Color

- 3.3.3.1 The main body color of the RFD system components shall be matte black, dark olive or dark kaki in color.

3.3.4 Instruments, Decal, Data Plates and Warnings

- 3.3.4.1 All instruments, decals and data plates within the RFD system shall be marked in metric units. Where international symbols are not possible, bilingual markings in English and Canadian French are required.
- 3.3.4.2 Warning and precautionary data plates for the RFD system shall be provided in both of Canada's official languages - English and Canadian French - where necessary to protect personnel and equipment. Refer to para. 3.10.6 for further details.

3.4 System Components Characteristics

3.4.1 RFD Transmitter and Receivers

- 3.4.1.1 The RFD system shall fire electric detonators and shock tube (which in turn initiates non-electric detonators), as follows:
- 3.4.1.1.1 Electric detonators: #12 commercial detonators and United States (US) designed M6 detonators (commonly used by several NATO countries).
 - 3.4.1.1.2 Shock Tube: Standard shock tube (3 mm nominal diameter), and mini-shock tube (2 mm nominal diameter).
- 3.4.1.2 *Coding/Decoding.* The RFD system shall include secure coding/decoding to limit electronic interference (or prevent unintentional (by friendly) or rogue firing (by unfriendly) by other radio systems).
- 3.4.1.2.1 The Contractor shall provide a **Coding/Decoding Functional Diagram and Explanation** IAW DID RFD-SE-103 at Appendix 1 and its associated CDRL RFD-SE-103 at Appendix 2 to this annex, showing how the RFD system will prevent random or rogue signals from starting the arming or firing sequence.
- 3.4.1.3 *Firing Circuit Continuity.* The RFD Rx for EED shall include firing circuit continuity test function.
- 3.4.1.4 *Safety Features*
- 3.4.1.4.1 The RFD system shall be designed according to the criteria listed in DEF STAN 59-114, STANAG 2818, and related Allied Ordnance Publications (AOP)s.
 - 3.4.1.4.2 The RFD system shall include the following safety features:
 - 3.4.1.4.2.1 A positive confirmation of transmitter activation (Power on-off);
 - 3.4.1.4.2.2 Two (2) separate and distinct actions to fire the system;

- 3.4.1.4.2.3 Auto De-arming. In the event that no command to fire the RFD Rx is sent after arming the system, the RFD Rx shall auto-disarm within sixty (60) seconds to inhibit firing, and
- 3.4.1.4.2.4 Safety Delay. RFD Rx shall include a factory set safety delay of at least sixty (60) seconds, to allow the user time to leave the danger area after explosive preparation, before the RFD Rx can be armed.
- 3.4.1.4.3 Failure mode
 - 3.4.1.4.3.1 The RFD system firing circuit shall be designed so that if the RFD system fails or enters a failure mode, the RFD system shall not be capable of initiating any part of the explosives, detonators or shock tube (such as causing a voltage differential across the firing poles).
 - 3.4.1.4.3.2 The Contractor shall provide a **Functional Hazard Analysis** IAW DID RFD-SE-102 at Appendix 1 and its associated CDRL RFD-SE-102 at Appendix 2 to this annex, to verify system safety.
- 3.4.1.5 *Electronic Visual Display.* Electronic Visual displays (such as LCDs, etc), if included, shall be readable in bright sunlight and dimmable at night.
- 3.4.1.6 *Power*
 - 3.4.1.6.1 *RFD Rx Output Energy.*
 - 3.4.1.6.1.1 The RFD Rx output energy for EED initiation, using fully charged batteries, shall be sufficient to:
 - 3.4.1.6.1.1.1 Fire two (2) US M6 electric detonators, attached in series to the RFD Rx through the standard twelve (12) foot length leg wires of the detonators (+/- one (1) foot) and the provided spool of firing cable (25m+/-0.5m), requiring an electric DC current of at least 0.45A for at least 50 milliseconds, as per MIL-DTL-45468F.
 - 3.4.1.6.1.2 The RFD Rx output energy for explosive charge initiation through shock tube, using fully charged batteries, shall be sufficient to initiate standard size (3 mm) and mini-shock tube (2mm).
 - 3.4.1.6.2 *Power Source.* RFD Tx and RFD Rx shall be powered using commercial-off-the-shelf batteries, which shall be replaceable by the user within two (2) minutes.
 - 3.4.1.6.2.1 *Battery Life.* The RFD Rx battery life, once in field position on standby mode, shall be no less than five (5) hours.
 - 3.4.1.6.2.2 If any Lithium or Lithium-polymer batteries are used in the RFD system, then the procedures in C-02-008-001/TS-000 General Safety Lithium Batteries Handling, Storage Preservation and Disposal Instructions shall apply.
- 3.4.1.7 *Transmitter Programmability.* The RFD Tx shall operate (fire) up to five (5) paired (matched) RFD Receivers all at once when the RFD Receivers are turned on and ready for initiation.

- 3.4.1.8 *Electro-Magnetic Compatibility (EMC) and Interference (EMI).* The RFD system shall be protected against undesired signals or energy sources that can degrade or prohibit its operation.
- 3.4.1.8.1 The RFD Tx (including the Extended distance transmitter antenna if provided) shall meet the requirements of RE102 IAW MIL-STD-461E, or other equivalent international standard.
- 3.4.1.8.2 The RFD Tx (including the Extended distance transmitter antenna if provided) shall meet the requirements of RS103 IAW MIL-STD-461E, or other equivalent international standard, for Army Ground levels from 2 MHz to 18 GHz.
- 3.4.1.9 *Electrostatic Discharge (ESD):* The RFD system (RFD Tx (including the Extended distance transmitter antenna if provided) and RFD Rx components) shall meet the following standard:
- 3.4.1.9.1 MIL-STD-331C Department of Defense Test Method Standard: Fuze and Fuze Components, Environmental and Performance Tests for – Test F1.1 Personnel-borne, or
- 3.4.1.9.2 IEC 61000-4-2 International Standard: Electromagnetic Compatibility (EMC) – Part 4-2: - Testing and Measurement Techniques – Electrostatic Discharge Immunity Test – Air Discharge Test Level 4, or other equivalent international standard.
- 3.4.1.10 *RFD system Operating Frequencies.* The RFD system operating frequencies shall be in the 225-400 MHz VHF/UHF band (Military Band).
- 3.4.1.10.1 As conditions on deployed operations will often require different operational frequencies than in Canada, the RFD system operating frequency shall be OEM re-programmable should this be needed.
- 3.4.1.11 *RF Safety.* The RFD system shall meet requirements of DND/CAF RF Safety Program IAW DAOD 3026-0, DAOD 3026-1 and CFTO C-55-040-001TS-002, and it shall be in compliance with the requirements of Health Canada's Safety Code 6: Limits of Human Exposure to Radio frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz.
- 3.4.1.12 *Application for Spectrum Supportability*
- 3.4.1.12.1 For each RFD system RF component (Transmitting and Receiving), the Contractor shall prepare and provide all required information for the **Application for Spectrum Supportability** IAW DID RFD-SE-101 at Appendix 2 to this Annex and its associated CDRL RFD-SE-101 at Appendix 3 to this Annex A and, Annex D – Application for Spectrum Supportability.
- 3.4.1.12.2 **RFD system RF components shall be certified by Industry Canada or meet Spectrum Supportability.** Spectrum Supportability is granted when RF equipment is found to be in conformity with National Spectrum Policy and Standards to ensure compatibility with existing RF equipment, both military and civilian, currently operating in the same frequency band. DND policy, standards, and organization for spectrum management and instructions for obtaining frequency supportability and licensing can be found in B-GT-D35-001/AG-000 (DNDP 35) Management of the Radio

Frequency Spectrum. National Spectrum Policy and Standards can be found on Industry Canada's website (<http://www.ic.gc.ca>) at:

http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/h_sf01841.html.

3.4.2 Spool of Firing Cable

3.4.2.1 The RFD system shall be provided with one (1) spool of firing cable with the following features:

- 3.4.2.1.1 Spool of firing cable shall have a twenty-five (25) m length (+/- 0.5 m);
- 3.4.2.1.2 Firing cable shall be equivalent to the standard CAF in-service firing cable (NSN - 6145-21-889-0161) (two conductor, twisted pair, 14 AWG), which follows DEF STAN 61-12 Part 17:
 - 3.4.2.1.2.1 Number of cores – 2;
 - 3.4.2.1.2.2 Conductor Details: Nominal number and nominal diameter of wires forming conductor – 24/0.20mm;
 - 3.4.2.1.2.3 Conductor Details: Cross-sectional area (nominal) – 0.75mm²;
 - 3.4.2.1.2.4 Conductor Details: Nominal Diameter – 1.14mm;
 - 3.4.2.1.2.5 Mean radial thickness of insulation (minimum) – 0.60mm;
 - 3.4.2.1.2.6 Identification of cores – 1 Brown and 1 Black;
 - 3.4.2.1.2.7 Mean overall diameter of each core – Lower Limit 2.3mm and Upper Limit 2.8mm;
 - 3.4.2.1.2.8 Insulation Resistance (minimum) megohms for 1 km – 2 MOhm;

3.4.3 Extended distance transmitter antenna (if required)

3.4.3.1 The Extended distance transmitter antenna shall be provided (if required) to allow for the increased safety distance required for demolition tasks, such as demolition of steel targets. See Operational Range performance requirement, para. 3.5.2.

3.4.4 Carry Case(s)

3.4.4.1 The RFD system shall be provided with up to two (2) hard Carry Cases having the following features:

- 3.4.4.1.1 The first hard Carry Case designed to house all RFD system components in para. 3.1.2.1 to 3.1.2.5, including the Operator Quick Reference Card (para. 3.10.2.1.1); the Operator Manual para. (3.10.2.1.2); and the Maintenance and Parts Handbook (para. 3.10.2.1.3).
- 3.4.4.1.2 **If required**, the second hard Carry Case (para. 3.1.2.8) designed to house the Extended distance transmitter antenna in para. 3.1.2.7;

- 3.4.4.1.3 Constructed of man-made material such as molded plastic;
- 3.4.4.1.4 Have a hinged cover, carry handle and locking features;
- 3.4.4.1.5 Include a barometric relief valve as the RFD system case(s) will be subjected to altitude pressure changes during tactical air transportation or due to abrupt ambient temperature changes;
- 3.4.4.1.6 Have internal lining made of form-fitted foam surrounding each RFD system component on all sides; and
- 3.4.4.1.7 Its colour shall be as per para. 3.3.3.

3.4.5 **Software**

- 3.4.5.1 Any software required for the maintenance, operation or programming of the RFD system shall be Microsoft Windows based and installable on standard COTS personal computer or laptop platforms with the same software as specified to open the Data Deliverables of this SOW as per para. 3.10.7.

3.5 **Performance Characteristics**

3.5.1 **General**

- 3.5.1.1 The RFD system performance shall be consistent across all environmental and operational conditions.

3.5.2 **Operational Range**

- 3.5.2.1 Dismounted. The dismounted operational range of the RFD system (not using the Extended distance transmitter antenna if provided) shall be minimum four-hundred (400) metres line-of-sight (LOS).
- 3.5.2.2 Demolition. The demolition operational range of the RFD system, using the Extended distance transmitter antenna (if required), shall be a minimum of one (1) km LOS.

3.5.3 **Durability**

- 3.5.3.1 The RFD system shall be ruggedized to withstand rough handling under combat conditions.
- 3.5.3.2 *Vibration*. The vibrations induced by transportation over rough roads and terrain shall not cause the RFD system to malfunction or degrade its performance, and they shall not shorten its operational life. The RFD system (RFD Tx (including the Extended distance transmitter antenna if provided) and RFD Rx components, not within the hard carry case(s)) shall meet requirements:
 - 3.5.3.2.1 AECTP 400 Method 401 Procedure 3 and Method 406 Procedure 1, or
 - 3.5.3.2.2 DEF STAN 00-35 Test M1 – General Purpose Vibration Test, or other equivalent international standard.

3.5.3.3 *Handling/Drop.* The shock induced by handling or an accidental drop during transit shall not cause the RFD system to malfunction or cause degradation of performance, and it shall not shorten its operational life. Therefore the RFD system (RFD Tx (including the Extended distance transmitter antenna if provided) and RFD Rx components, not within the hard Carry Case(s)) shall meet requirements:

3.5.3.3.1 AECTP 400 Method 414 Procedure 1, drop height 122cm, 26 drops total, one on each face, edge, and corner, or

3.5.3.3.2 DEF STAN 00-35 Test M5 – Impact (Vertical and Horizontal) Test, fall height of at least 1.25m, or other equivalent international standard.

3.5.3.4 *Immersion.* RFD system (RFD Tx (including the Extended distance transmitter antenna if provided) and RFD Rx components, not within the hard Carry Case(s)) shall meet requirements:

3.5.3.4.1 IEC 60529 Ingress Protection Code IP67, or

3.5.3.4.2 DEF STAN 00-35 Test CL29 – Immersion, depth of complete immersion of at least 1m, or other equivalent international standard.

3.6 Environmental and Climatic Characteristics

3.6.1 The RFD system shall operate in temperatures ranging from -10°C to +49°C without degradation, and the RFD system (RFD Tx (including the Extended distance transmitter antenna if provided) and RFD Rx components, not within the hard Carry Case(s)) shall have been tested for low and high temperature operation IAW:

3.6.1.1 Low Temperature Operation Testing:

3.6.1.1.1 AECTP 300 Method 303 Procedure 2, Operational Test, or

3.6.1.1.2 DEF STAN 00-35 Test CL5 – Low Temperature Test, or other equivalent international standard.

3.6.1.2 High Temperature Operation Testing:

3.6.1.2.1 AECTP 300 Method 302 Procedure 2, High Temperature Operation, or

3.6.1.2.2 DEF STAN 00-35 Test CL6 – High Temperature, Humidity and Solar Heating Diurnal Cycle Test, or other equivalent international standard.

3.6.2 The RFD system shall be stored in temperature conditions ranging from -30°C to + 60°C.

3.7 Environmental Health and Safety (EHS)

3.7.1 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.

- 3.7.2 Polychlorinated Biphenyls (PCBs), halocarbons (as identified within the Ozone-Depleting Substances Regulations, 1998), and asbestos shall not be incorporated into the design, operation and maintenance of the equipment, or products used in equipment support activities.
- 3.7.3 The Contractor shall identify and report all sources of mercury contained or used within the design, operation and maintenance of the equipment, or products used in equipment support activities.
- 3.7.4 The Department is committed to the Federal programs to reduce or eliminate emissions from toxic substances. Contractors shall identify and submit justifications for the use of all regulated products and those containing substances identified within the Accelerated Reduction/Elimination of Toxics (ARET, <http://www.ec.gc.ca/nopp/aret/en/list.cfm>), National Pollutant Release Inventory (NPRI, http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm) and/or List of Challenge Substances (http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_e.html), and also for products containing heavy metals (heavy metals are those identified within Schedule 1 of the Canadian Environmental Protection Act (CEPA)) to the technical authority for approval.
- 3.7.5 Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements.
- 3.7.6 New or amended support documentation created by the Contractor shall incorporate appropriate EHS warnings and instructions in direct relation of the EHS risks presented in the contents. The Contractor shall ensure that revisions to specifications, standards, technical publications and test programs are reviewed for EHS compliance.

3.8 Environmental Management System

- 3.8.1 The Contractor shall have a management system in place to control environmental, health and safety impacts resulting from their activities, products or services.
- 3.8.2 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.
- 3.8.3 The Contractor shall also make reasonable effort to monitor that all subcontractors are in compliance with applicable environmental laws and regulations.

3.9 Project Management

3.9.1 Project Management Program

- 3.9.1.1 The Contractor shall designate a Project Manager with the responsibilities to coordinate, execute, and manage the Contractor's project management activities for the Contract. The Contractor's Project Manager shall have the total responsibility for all works required under the Contract.
- 3.9.1.2 The Contractor's Project Manager shall be the primary point of contact between the Contractor and the DND TA and the PWGSC Contracting Authority (CA) for all issues related to the Contract.

3.9.2 **Project Management Plan (PMP)**

- 3.9.2.1 The Contractor shall prepare, deliver, maintain and update a **Project Management Plan (PMP)** IAW DID RFD-PM-001 at Appendix 1 and its associated CDRL RFD-PM-001 at Appendix 2 to this annex.

3.9.3 **Project Meetings**

3.9.3.1 *Meeting Organization and Coordination*

- 3.9.3.1.1 The Contractor shall ensure that data, personnel and facilities are available for each meeting held at the Contractor site.
- 3.9.3.1.2 As appropriate, meetings will be held at the Contractor or DND facilities at the discretion of the TA.
- 3.9.3.1.3 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.

3.9.3.2 *Kick-off Meeting*

- 3.9.3.2.1 DND will host a Kick-off Meeting (at the DND office site: Louis St-Laurent, 555 Blvd de La Carrière, Gatineau QC CANADA), no later than thirty (30) calendar days after contract award. The aim of the Kick-off Meeting will be to review and secure a common understanding of the requirements expressed in the following documents:

- 3.9.3.2.1.1 The Contract;
- 3.9.3.2.1.2 The SOW;
- 3.9.3.2.1.3 Draft Project Management Plan;
- 3.9.3.2.1.4 DND assigned serial numbers for the ID Plates; and
- 3.9.3.2.1.5 Any other contractual or programmatic issues associated with the project as agreed between the TA, CA and the Contractor.

3.9.3.2.2 *Top Level Assembly Drawing*

- 3.9.3.2.2.1 The Contractor shall provide a (hardcopy and softcopy) Top Level Assembly Drawing(s) (TLAD) of the RFD system and any of its major components (each component on its own drawing sheet).
- 3.9.3.2.2.2 The TLAD shall be created IAW section 7.4 of D-01-400-001/SG-000 and DID RFD-ILS-205 at Appendix 1 to this Annex, complete with dimensions and title block.
- 3.9.3.2.2.3 The TLAD shall be provided to DND at the Kick-off meeting, with reviews timed IAW CDRL RFD-ILS-210 at Appendix 2 to this Annex.

3.9.3.3 *Other Meetings*

3.9.3.3.1 The Contractor and/or the TA may schedule informal reviews, such as teleconferences, video conferences, briefings and technical interchange meetings as necessary to help achieve the requirements of the Contract.

3.9.3.3.2 The Contractor shall formally submit all items that could have a contractual impact as they arise.

3.9.3.4 *Meeting Documentation*

3.9.3.4.1 The Contractor shall prepare and deliver a meeting agenda for all meetings, and the meeting minutes afterward.

3.9.3.4.1.1 The Contractor shall prepare **Meeting Agenda(s)** IAW DID RFD-PM-002 at Appendix 1 and its associated CDRL RFD-PM-002 at Appendix 2 to this annex.

3.9.3.4.1.2 The Contractor shall record, prepare, and deliver the **Meeting Minutes** of each meeting IAW DID RFD-PM-003 at Appendix 1 and its associated CDRL RFD-PM-003 at Appendix 2 to this annex.

3.9.3.4.2 No change in the interpretation of the Project, SOW, cost, or schedule, as defined in the Contract, may be authorized by the minutes of a meeting. Such action shall require formal Contract amendment by the CA.

3.10 Integrated Logistics Support (ILS)

3.10.1 Maintenance Concept

3.10.1.1 Only first level maintenance for the RFD system will be carried out by CF Technicians in the garrison, the field, or in operation. First level maintenance includes:

3.10.1.1.1 Preliminary diagnosis of faults; and,

3.10.1.1.2 Preventive and corrective maintenance and servicing;

3.10.1.1.3 Of minor nature (less than 4 hours for the task).

3.10.2 Technical Publication Package

3.10.2.1 The Contractor shall prepare and deliver a Technical Publication package for the RFD system comprising of:

3.10.2.1.1 Operator Quick Reference Card

3.10.2.1.1.1 The Contractor shall deliver the **Operator Quick Reference Card** with each RFD system IAW DID RFD-ILS-201 at Appendix 1 and its associated CDRL RFD-ILS-201 at Appendix 2 to this annex.

3.10.2.1.2 Operator Manual

3.10.2.1.2.1 The Contractor shall deliver the **Operator Manual** with each RFD system IAW DID RFD-ILS-202 at Appendix 1 and its associated CDRL RFD-ILS-202 at Appendix 2 to this annex.

- 3.10.2.1.2.2 Along with the first Operator Manual submission, the Contractor shall loan DND a sample RFD system (sample means it need not be the final version of the equipment, but complete enough to assist with publication review). **Sample will be returned to the Contractor after acceptance of the Operator Manual.**

3.10.2.1.3 **Maintenance and Parts Handbook**

- 3.10.2.1.3.1 The Contractor shall deliver the **Maintenance and Parts Handbook** with each RFD system IAW DID RFD-ILS-203 at Appendix 1, its associated CDRL RFD-ILS-203 at Appendix 2 to this annex, and the Maintenance Concept of the RFD (see 3.10.1).

3.10.2.1.4 **Operator Training Package**

- 3.10.2.1.4.1 The Contractor shall provide an **Operator Training Package** IAW DID RFD-ILS-207 at Appendix 1 and its associated CDRL RFD-ILS-207 at Appendix 2 to this annex.

3.10.2.2 The Contractor shall deliver all Technical Publications in English and Canadian French.

3.10.2.3 The Contractor shall have all Technical Publications texts translated by certified translators, such as members of an authorized provincial association of translators, to ensure the quality of translated text.

3.10.2.4 The Contractor shall ensure all translations are consistent with approved DND terminology. Approved terminology sources, in order of priority, are as follows:

3.10.2.4.1 Concise Oxford Dictionary (for English);

3.10.2.4.2 Petit Robert (for French);

3.10.2.4.3 Termium, PWGSC Translation Bureau Linguistic Data Bank (http://termiuplus.gc.ca/site/accueil_home_e.html); and

3.10.2.4.4 Any other available source approved by DND.

3.10.3 **Provisioning Documentation**

3.10.3.1 The Contractor shall prepare and deliver Provisioning Documentation for the RFD system comprising of:

3.10.3.1.1 **Provisioning Parts Breakdown**

- 3.10.3.1.1.1 The Contractor shall deliver a **Provisioning Parts Breakdown** List IAW DID RFD-ILS-204 at Appendix 1 and its associated CDRL RFD-ILS-204 at Appendix 2 to this annex.

3.10.3.1.2 **Supplementary Provisioning Technical Documentation**

- 3.10.3.1.2.1 The Contractor shall deliver the **Supplementary Provisioning Technical Documentation** IAW DID RFD-ILS-205 at Appendix 1 and its associated CDRL RFD-ILS-205 at Appendix 2 to this annex.

3.10.3.1.3 **Special Tools & Testing Equipment**

- 3.10.3.1.3.1 The Contractor shall deliver a **Special Tools and Test Equipment List** IAW DID RFD-ILS-206 at Appendix 1 and its associated CDRL RFD-ILS-206 at Appendix 2 to this annex.
- 3.10.3.1.3.2 The Contractor shall have basic information regarding the Special Tools and Testing Equipment suite available at the Kick-Off Meeting (3.9.3.2) for preliminary examination by DND.

3.10.4 **Training Session**

- 3.10.4.1 The Contractor shall provide the Training Sessions at CFB Gagetown, Oromocto NB, Canada, date(s) to be determined by the ILS Manager, within one (1) year of the acceptance of the Training Package (3.10.2.1.4).
 - 3.10.4.1.1 The Training Session shall consist of one (1) training session for Operators (train-the-trainer type) given to up to thirty (30) students per course
 - 3.10.4.1.2 The Contractor shall provide the Training Sessions in English.
- 3.10.4.2 The instructor(s) shall be:
 - 3.10.4.2.1 Bilingual, in order for him/her to be able to understand and answer questions from the class in both official languages, English and Canadian French; and,
 - 3.10.4.2.2 Subject Matter Expert(s) (SME) on the equipment taught during the training.
- 3.10.4.3 The Contractor shall provide all the materials and equipment required for the Training Sessions. These materials and equipment will remain the property of the Contractor.
- 3.10.4.4 The Contractor shall use the approved Operator Training Package (RFD-ILS-207) for the Training Session.

3.10.5 **Packaging, Labels and Codes**

- 3.10.5.1 Packaging Labels and Codes: The Contractor shall deliver **Packaging, Labels and Codes** IAW DID RFD-ILS-208 at Appendix 1 and its associated CDRL RFD-ILS-208 at Appendix 2 to this annex.
- 3.10.5.2 Once the sample label is approved, the Contractor shall affix a label on items bought by DND before the items are shipped to DND.

3.10.6 **Identification Plates**

- 3.10.6.1 The Contractor shall provide all required **Identification Plates** IAW DID RFD-ILS-209 at Appendix 1 and its associated CDRL RFD-ILS-209 at Appendix 2 to this annex.
- 3.10.6.2 The Contractor shall ensure that all required identification plates are affixed to each RFD system prior to delivery to the Crown.
- 3.10.6.3 DND will provide serial numbers for each Identification Plate, rather than the Contractor creating their own. The serial numbers will be provided at the Kick-off Meeting, and these will be used for DND supply system tracking.

3.10.7 Data Deliverable Format

- 3.10.7.1 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 below:
- 3.10.7.1.1 Microsoft (MS) Windows XP Professional Operating System (OS), Multilingual Pack, Service Pack 3;
 - 3.10.7.1.2 MS Internet Explorer (IE) 7.0 with 128 Bit Encryption and associated SP;
 - 3.10.7.1.3 MS Office 2003, Professional Edition, SP3, Multilanguage Pack (Word, Excel, Access, PowerPoint and Outlook);
 - 3.10.7.1.4 MS Office Project 2003;
 - 3.10.7.1.5 Adobe Acrobat 6.0; and
 - 3.10.7.1.6 WinZip 8.1 SR-1;
- 3.10.7.2 Those compatible formats will 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.

CONTRACT END ITEMS LIST

FOR

REMOTE FIRING DEVICE

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1.0 SCOPE

1.1 Purpose

- 1.1.1 The purpose of this Contract End Items List document is to outline the deliverables required from the Contractor for the Remote Firing Device (RFD) system. As well, the document specifies the format for the data to be delivered under the Contract.

2.0 CONTRACT DELIVERABLES

2.1 General

- 2.1.1 The Contractor shall ensure that the RFD systems are delivered correctly, adjusted and serviced such that the systems are ready for transportation and operation upon delivery.
- 2.1.2 The Contractor shall deliver a total quantity of fifty-two (52) RFD systems, with an option to acquire Special Tools and Test Equipment and Spare Parts, after approval from DND, within one (1) year of contract award.

2.2 List of Deliverables

Item	Item Description	Qty
1	RFD system (Annex A para. 3.1.2)	52
2	Coding/Decoding Functional Diagram and Explanation (Annex A para. 3.4.1.2.1)	LOT
3	Functional Hazard Analysis (Annex A para. 3.4.1.4.3.2)	LOT
4	Application for Spectrum Supportability (Annex A para. 3.4.1.12.1)	LOT
5	Project Management Plan (Annex A para. 3.9.2.1)	LOT
6	Meeting Agenda (Annex A para. 3.9.3.4.1.1)	LOT
7	Meeting Minutes (Annex A para. 3.9.3.4.1.2)	LOT
8	Sample RFD System (loaned temporarily to DND) (Annex A para. 3.10.2.1.2.2)	1
9	Operators Quick Reference Card (Annex A para. 3.10.2.1.1)	LOT
10	Operator Manual (Annex A para. 3.10.2.1.2.)	LOT
11	Maintenance and Parts Handbook (Annex A para. 3.10.2.1.3)	LOT
12	Operator Training Package (Annex A para. 3.10.2.1.4)	LOT
13	Training Session (Annex A para. 3.10.4)	1
14	Provisioning Parts Breakdown (Annex A para. 3.10.3.1.1)	LOT
15	Supplementary Provisioning Technical Documentation (Annex A para. 3.10.3.1.2)	LOT
16	Special Tool & Testing Equipment (Annex A para. 3.10.3.1.3)	LOT
17	Packaging, Labels and Codes (Annex A para. 3.10.5)	LOT
18	Identification Plates (Annex A para. 3.10.6)	LOT
19	Top Level Assembly Drawing (Annex A para. 3.9.3.2.2)	LOT
20	Option to acquire Special Tool & Testing Equipment after approval from DND	TBD
21	Option to acquire Spare Parts (upon approval of the Provisioning Parts Breakdown)	TBD

Table 1: Control End Items List

Note: 'LOT' equates to the quantity needed to fulfill the requirements of the CDRL, including revisions, as necessary until accepted by DND.

2.3 Data Deliverable List

- 2.3.1 The Contractor shall prepare and deliver all data required under the Contract as summarized in the above article 2.2 Table 1.
- 2.3.2 The Contractor shall maintain and update all data deliverables, including plans and documents, as required for the duration of the Contract.

2.4 Data Format

- 2.4.1 All data delivered as part of this SOW, other than those with specific requirements, shall be prepared in the Contractor's own format.
- 2.4.2 All documentation shall be submitted in hardcopy and in electronic format. Unless otherwise specified, the Contractor shall deliver all of the soft copies of data deliverables in formats compatible with the office software currently in use by DND – refer to Annex A article 3.10.7 Data Deliverable Format.

2.5 Delivery Calendar

- 2.5.1 The Contractor shall submit a proposed delivery schedule to meet the following delivery requirements for the RFD system:
 - 2.5.1.1 First delivery shall only be initiated (accepted) once the following required data item deliverables are provided and accepted by DND:
 - 2.5.1.1.1 Coding/Decoding Functional Diagram and Explanation
 - 2.5.1.1.2 Functional Hazard Analysis
 - 2.5.1.1.3 Application for Spectrum Supportability;
 - 2.5.1.1.4 Operator Quick Reference Card;
 - 2.5.1.1.5 Operator Manual;
 - 2.5.1.1.6 Maintenance and Parts Handbook;
 - 2.5.1.1.7 Provisioning Parts Breakdown;
 - 2.5.1.1.8 Supplementary Provisioning Technical Documentation;
 - 2.5.1.1.9 Special Tool and Test Equipment;
 - 2.5.1.1.10 Operator Training Package;
 - 2.5.1.1.11 Packaging, Labels and Codes; and,
 - 2.5.1.1.12 Identification Plates;
 - 2.5.1.2 All deliveries shall be completed within two hundreds (200) calendar days after the Kick-off Meeting.