

**L'INVITATION** 

National Defence

National Defence Headquarters Ottawa, Ontario K1A 0K2

### SOLICITATION AMENDMENT MODIFICATION DE

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** 

#### RETURN BIDS TO: RETOURNER LES SOUMISSIONS À :

By e-mail to: - Par courriel au: DLP53BidsReceiving.DAAT53Receptiondessoumissions@forces.gc.ca

Attention: - Attention: Wo il Lee DLP 5-3-5

Solicitation Closes - L'invitation prend fin

At - à:

2:00 PM - 14:00

On - le:

December 6, 2022 - 6 décembre 2022

Time Zone - Fuseau Horaire : Eastern Standard Time (EST) Heure normale de l'Est (HNE) Défense nationale

Quartier général de la Défense nationale Ottawa (Ontario) K1A 0K2

Title - Sujet

ISO Container Administrative Movement and Maintenance Systems (ICAMMS) - Systèmes de mouvement administratif et de maintenance de

conteneurs ISO (SMAMCI)

Date of Amendment Date de modification

N° de l'invitation W8476-226567/A

Solicitation No.

November 17, 2022 - 17 novembre 2022

Amendment No. - N° modif.

Address enquiries to: - Adresser toute demande de renseignements à :

Wo il Lee

**Telephone No. - N° de telephone**343-572-4779 **E-Mail Address - Courriel**Woil.lee@forces.gc.ca

Destination

See herein - Voir aux présentes

**Instructions:** Municipal taxes are not applicable. Unless otherwise specified herein all prices quoted must include all applicable Canadian customs duties, GST/HST, excise taxes and are to be delivered Delivery Duty Paid including all delivery charges to destination(s) as indicated. The amount of the Goods and Services Tax/Harmonized Sales Tax is to be shown as a separate item.

**Instructions**: Les taxes municipales ne s'appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d'accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations indiquées. Le montant de la taxe sur les produits et services/taxe de vente harmonisée doit être indiqué séparément.

Delivery required Livraison exigée

See herein - Voir aux présentes

Delivery offered Livraison proposée

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

Person authorized to sign on behalf of Vendor/Firm (type or print): | La personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie) :

Name - Nom Title - Titre

Signature Date



#### THIS SOLICITATION AMENDMENT IS RAISED TO:

- 1. Provide clarification and answers to questions from potential suppliers; and
- 2. Amend the solicitation (Annex A, Requirement Statement of Work) to clarify and reflect the questions received.

#### **QUESTIONS AND ANSWERS:**

Question 7	Article 3.3.2: Please consider adding Fx protection according to SACC C3010T in order to offer bidders a choice to mitigate their risk by having Canada assume the risks and benefits of exchange rate fluctuations. Foreign exchange rates have fluctuated greatly over the past year and due to an uncertain economic climate with a war in Europe, high inflation and risk of recession, industry faces great risk in bidding on this project unless Fx protection is offered by Canada. Failure to add SACC C3010T may cause potential bidders to decline the opportunity to bid, and those that choose to bid may inflate their bid price significantly to account for a potential significant change in Fx rates for which industry has no control. It should also be noted that in addition to a 5% holdback until last delivery, delivery is requested over a 730 day period which in itself presents significant risk to bidders on account of inflation and supply chain issues which may significantly affect transportation costs, costs of labour and material over this extended period.
Answer 7	SACC clause C3010T - Exchange Rate Fluctuation Risk Mitigation clause added. See the below amendment.
Question 8	Article 6.29 requires the contractor's delivery trucks to have an unloading devices while it is our understanding that the five delivery destinations for the goods each have docks with forklifts and material handling equipment. Please clarify the need for self-unloading capability as this will increase the cost of transport for which bidders will pass this additional cost on to Canada?
Answer 8	No change to RFP clause 6.29. Canada will NOT unload the equipment from the delivery trucks. Loading docks should be available at all destination, however, due to some issues they may be not be available hence the transport company need to be prepared
Question 9	Article 6.36 A requires technical data for each item for codification. There is no maintenance concept provided nor any requirement for an initial provisioning conference. We want some idea how many items may require cataloguing in view of Annex A, article 5.1.2 which states SPTD is required for items listed as recommended for procurement. Is it reasonable to base our bid on say 15 items or can you provide an estimated number of items?
Answer 9	Contactors are to bid in accordance with the OEM assessment for preventive and corrective maintenance tasks as per A3.15 DID-Technical Manual 6.1.1.7 & 6.1.1.8.
Question 10	Annex A, article 4.4.3.1 refers to requirements of the FATP. Does the FATP, as a minimum, require all tests and inspections to be performed as part of FATP for all items marked T and I in the Verification Method column of the RVM?
Answer 10	Yes.
Question 11	Annex A, article 4.4.3.3 references two different size ISO containers. Do all the FATP tests have to be performed twice, one set for each container size?
Answer 11	4.4.3.3 changed to: The Contractor must provide one (1) 1C or 1CC configuration container loaded to gross weight of 16,500 kg, for all applicable FAT tests.
Question 12	Annex A, article 4.5.2 requires each ICAMMS to be delivered with a preventive maintenance spares kit. Since there is no mission profile provided, nor any means for the bidder to determine expected usage of the ICAMMS, will you accept the OEM's standard kit of spares?

Answer 12	Yes. Subject to review and acceptance by the TA.
Question 13	Annex A, article RVM A1.3.2 revised by Answer 1 in Amendment 001 does not consider the weight imposed if only two corners must support the weight for short periods of time. We therefore recommend the ICAMMS must safely support 8,250 Kg at each corner while mobile or immobile.
Answer 13	No change.
Question 14	Annex A, article RVM A1.3.4 suggests the container is always level. Must the ICAMMS accommodate a container where one corner may be up to 8 inch difference in height to an adjacent corner?
Answer 14	No. The assumption is that the container is level or roughly level.
Question 15	Annex A, article RVM A1.3.8 requires a positive lock or braking system. Would a stop valve in the hydraulic circuit be an acceptable solution?
Answer 15	Positive lock requirements must be IAW BS EN 1494 Section 5, para 5.1, which provides the requirement for safety and load holding, and provides examples of how the requirement may be fulfilled.
Question 16	Annex A, article RVM A1.6.6 requires a transit drop of 18 inches according to the referenced standard. The success criteria for the Transit Drop test specified in A1.6.6 is not outlined. Given that the minimum drop height specified for the Transit Drop test outlined in section A1.6.6 is 18", will The Technical Authority still consider this test to be successful (and the unit compliant) if the unit exhibits some cosmetic damage (ex. dents, paint damage, bent flanges, etc.) but is still functional after the drop test? Alternatively will Canada accept a transit drop of six inches instead of 18" which seems excessive for the type of equipment?
Answer 16	Drop test is 18". Test result will still be considered successful if only some minor cosmetic damage occurs.
Question 17	Annex A, article RVM A1.7.1 is listed as "I" in the Verification Method column. Please consider changing to C, unless the intent is to demonstrate compliance by actual testing of 100 cycles per container type which could amount to 400km of operation? Additionally, is this requirement based on a loaded, 16,500 kg container or unloaded container?
Answer 17	Verification method for RVM A1.7.1 changed from "I" to "A". Based on a loaded container.
Question 18	Annex A, article RVM A1.7.2 refers to safety. Is it required that the ICAMMS be certified and bear a CSA, UL or CE mark to demonstrate compliance?
Answer 18	Yes. Any of the 3 is acceptable.
Question 19	Annex A, article RVM A1.13.3 refers to each mechanical jack component. In the case where the "jack component" involves a system of individual components, please confirm the marking requirement applies to the system and not each individual component which would be impractical?
Answer 19	The ICAMMS system is built of 4 individual jacks that all come together to lift the ISO Container. Each corner jack and tow bar must be stamped as an independent lifting device or component.
Question 20	The Technical Authority's expectations for compliance to RVM line A1.7.1 are not clear to this Bidder. Is the expectation that the Contractor will provide calculations showing the ICAMMS meets the MCBF requirement and that the subsequent Inspection (to be conducted as part of

	the FAT process) will consist of inspecting the first unit to confirm that the items/part numbers used in the MCBF are in fact present on the first unit?	
Answer 20	Verification method for RVM A1.7.1 changed from "I" to "A". Based on a loaded container. Calculations are expected.	
Question 21	Section A1.1.3 of Appendix 1 (RVM) indicates that all means of compliance must be witnesses and approved by DND. Does this mean that all compliance activities identified as "Test" in the RVM must be witnessed by DND and thus must be performed after contract award in front of the Technical Authority?	
Answer 21	Yes as per SOW 4.4.3.4:	
	4.4.3.4 The Contractor must coordinate access to First Article Test for DND witnesses, including but not limited to the Technical Authority and Contracting Authority.	
Question 22	Can the Contractor modify the test procedure for the test outlined in section A1.6.6 to use a different drop surface (i.e. concrete only) or must the Contractor use a drop surface as specified in section 4.6.5 of Mil-STD-810H, Method 516.8?	
Answer 22	In this case, we will accept the test done on a concrete surface (such as warehouse flooring).	
Question 23	23. Compliance to the environmental condition requirements outlined in sections A1.5.1 and A1.5.2 can be done through two means both of which present separate questions listed below:	
	a. "C3" which involves proving compliance through conformance certification from an authorized independent 3rd party. What criteria would Canada use to determine that the 3rd party is authorized to certify that the equipment meets the requirement? Would Canada accept a certificate from an independent test laboratory that performed testing of the equipment against the Mil-STD? Since the compliance is to be witnessed and approved by DND (per section A1.1.3) will DND intend to witness this testing during the FAT process?	
	b. Pricing compliance through analysis. "Analysis", as listed in section A1.1.4.4, includes the use of reduced or representative data but those terms are highly subjective. Given that section A1.1.4.4 indicates that the Technical Authority reserves the right to invoke further compliance verification methods, including Testing, if they deem the analysis insufficient, the subjectivity of an analysis is a risk to Bidders. Would evidence that the proposed ICAMMS equipment is in operation in climates that meet the environmental conditions outlined in sections A1.5.1 and A1.5.2 be considered sufficient for the purposes of compliance via analysis or will the Technical Authority only accept the results of testing performed in strict accordance with Mil-STD-810H, Method 501.7, Procedure II?	
Answer 23	Verification method for RVM A1.5.1 and RVM A1.5.2 changed from "C3 or A" to "A". "A" can include "C3" results such as certificates if available. In this case, DND representatives do not have to be present. "A" can include proof of existing weather operations that meet environmental conditions as per RVM A1.5.1 and RVM A.1.5.2 acceptable.	
Question 24	Amendment 001 answer 3 makes it unclear what is accepted as a braking system. Please confirm that the wheels require some form of lock or brake system permanently attached to each lifting device?	
Answer 24	The holding mechanism must form part of and be attached to the ICAMMS.	
Question 25	Amendment 001 answer 4 requires the ICAMMS to consist of 5 items however this is inconsistent with the requirement at A1.6.1. Please confirm that the ICAMMS also requires a 6th item such as a storage rack, unless such a means of connecting all the items together is inherent in the design?	
Answer 25	Number of items is a design consideration. Must meet the requirements of the storage rack as per A1.6.1. A separate storage rack may or may not be required unless a means of	

	connecting all items together for storage and transport (without a storage rack) is inherent in the design.
Question 26	Section 6.1.1 of DID ICAMMS-SE-101 includes reference to documenting the requirements through analysis and design however the SOW in Annex A does not list any design review meetings. Furthermore, SOW section 4.1 appears to be indicate that the unit should be an "in service" unit, hence a design phase does not seem practical for this contract. Can you confirm that the RVM from DID ICAMMS-SE-101 does not need to cover the requirement analysis and design, just the testing and acceptance activities?
Answer 26	Correct that there is no formal design review meeting. The RVM / design review process was intended to be "secretarial", and iterative. The RVM would be submitted as a first draft at Kickoff, with whatever analysis, certifications, design documentation is available, and then updated as compliance testing is completed. The RVM should include all necessary artifacts to demonstrate the compliance. Should only be a simple design review meeting.
Question 27	We have three questions about the desired contents of the FATP described in DID ICAMMS- SE-102
	a. Section 6.1.2 indicates that the FATP must include all "Inspection and Test" requirements. Does that mean that the FATP does not need to include verification of the RVM items which are being proven by Certification, Analysis or Documentation?
	b. Sections 6.1.5.3, 6.1.5.4, 6.1.5.5, and 6.1.5.6 appear to be written around the "Tests" that are part of the verifications activities. Can you please confirm that this is the correct interpretation and that items being verified through "Inspection" do not have to be included in those sections?
	c. Section 6.1.5.7 describes "Acceptance Test Products" but this term is unclear to this bidder. Does "Acceptance Test Products" mean the expected test results? I.e. that section should outline what the expected results are and how they would be presented?
Answer 27	a. Since the RVM is submitted as draft prior to FATP, and then revised for FATP/FATR and then finalised, the "C", "A" and "D" criterion would be reviewed during those submissions, and not necessarily as a part of the First Article Testing. However the FATP can indicate that some requirements are proposed to be proven via Certification, Analysis or Documentation rather than Testing alone. DID ICAMMS SE-101 6.1.3.8 and DID ICAMMS-SE-102 6.1.2 and DID ICAMMS-SE-103 6.1.4 updated.
	b. Yes, inspection items reqt's must be included as per 6.1.2 in the FATP. DID ICAMMS-SE-102 6.1.5.1, 6.1.5.3, 6.1.5.4, 6.1.5.5, 6.1.5.6 and 6.1.5.7 updated.
	c. Acceptance Test Products are defined under section 6.1.5.7.1.
Question 28	Section 6.1.1.10 of DID ICAMSS-ILS-206 requires the inclusion of an "Illustrated Parts List". Must the Illustrated Parts Lists be presented in "exploded view format" (per D-01-100-207/SF-002) or would parts list in commercial, standard assembly drawing format be acceptable?
Answer 28	Yes we will accept in commercial, standard assembly drawing format.
Question 29	Mandatory requirement M1 allows a bidder offering a commercially sold product or a company with stated requisite experience. Answer 6 in Amendment 001 reinforces your requirement for a commercially available product. Please consider removing the second part of M1 starting with "or be manufactured by"? As written, a bidder with no experience designing and manufacturing an ICAMMS design could still be compliant with M1 and there is nowhere in the mandatory requirement for a company to demonstrate that they meet Annex A, article 4.2.3 or A1.12.1.
Answer 29	No change.
	I

Question 30	Mandatory requirement M1 is unclear regarding the two-year period. A bidder may claim they manufactured a ICAMMS design 30 years ago and such product may not be currently commercially available. We suggest the clause be rewritten to state that the ICAMMS design be "sold commercially for at least the past 2 years."
Answer 30	No change.

#### THIS SOLICITATION IS HEREBY AMENDED AS FOLLOWS:

- 2.1 DELETE: "STATEMENT OF WORK FOR THE ISO CONTAINER ADMINISTRATIVE MOVEMENT AND MAINTENANCE SYSTEM (ICAMMS) dated 20 October 2022" in its entirety.

  INSERT: "STATEMENT OF WORK FOR THE ISO CONTAINER ADMINISTRATIVE MOVEMENT AND MAINTENANCE SYSTEM (ICAMMS) dated 8 November 2022" See attached.
- 2.2 DELETE: 3.3.2 Exchange Rate Fluctuation, in its entirety. INSERT:
  - 3.3.2 Exchange Rate Fluctuation Risk Mitigation
- A. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form PWGSC-TPSGC 450 (http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html#f2), Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
- B. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
- C. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
- D. At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450, for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
- E. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.
  - 6.6.5 Exchange Rate Fluctuation Adjustment
- A. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
- B. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
- C. The total price paid by Canada on each invoice will be adjusted at the time of payment. The exchange rate adjustment amount will be calculated in accordance with the following formula:
  - Exchange rate adjustment = FCC x Qty x (i1 i0) / i0

where formula variables correspond to:

- (i) FCC = Foreign currency component (per unit);
- (ii) Qty = quantity of units;
- iii) i0: = Initial exchange rate (CAN\$ per unit of foreign currency [for example US\$1]).
   The initial exchange rate is set as the Bank of Canada rate on the solicitation closing date. The Bank of Canada publishes its rates each business day by 16:30 Eastern Time; and
- (iv) i1 = Exchange Rate for Adjustments (ERA) (CAN\$ per unit of foreign currency [for example US\$1]). The Bank of Canada publishes its rates each business day by 16:30 Eastern Time:
- (a) The ERA for goods will be the Bank of Canada rate on the date the goods were delivered;
- (b) The ERA for services will be the Bank of Canada rate on the last business day of the month for which the services were performed; and
- (c) The ERA for advance payments will be the Bank of Canada rate on the last business day prior to the payment. The last published business day rate will be used for non-business days.
- D. The Contractor must indicate the total exchange rate adjustment amounts (whether they are upward, downward or present no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450 (http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html#f2), Claim for Exchange Rate Adjustments.
- E. The exchange rate adjustment will only impact the payment to be made by Canada where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450 (that is [ i1 i0 ) / i0]).
- F. Canada reserves the right to audit any revision to costs and prices under this clause.

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.

#### **STATEMENT OF WORK**

#### **FOR THE**

# ISO CONTAINER ADMINISTRATIVE MOVEMENT AND MAINTENANCE SYSTEM (ICAMMS)



#### NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

#### AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

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#### 1.0 SCOPE

#### 1.1 Objective

1.1.1 The Department of National Defense has a requirement to procure 56 ISO Container Administrative Movement and Maintenance System (ICAMMS). The purpose of this Statement of Work (SOW) is to define the requirements for the ICAMMS to be delivered IAW this SOW.

#### 1.2 Background

1.2.1 The Canadian Armed Forces (CAF) uses a shelter system constructed from ISO containers. These containers range from 10 ft. in length to 20 ft. in length, and weigh up to 10,000 kg. In addition to the shelter system, the CAF also uses 40 ft. length containers weighing up to 16,500 kg for storage and transport. These containers have a requirement for an effective ICAMMS that can provide a deployable capability for the administrative movement of ISO Containers without the use of a forklift or crane.

#### 1.3 Intended Use

- 1.3.1 The ICAMMS will be capable of local, short distance administrative movement of ISO Containers.
- 1.3.2 The ICAMMS will be deployed to varied locations, both domestically and overseas, from bases and garrisons, airfield tarmac, and gravel compounds in Forward Operating Bases.
- 1.3.3 The ICAMMS will support container transfers between units in garrison, movement to and from maintenance facilities and loading and offloading containers from certain types of trailers, aircraft or roll-on / roll-off naval platforms.
- 1.3.4 The ICAMMS will be subjected to repeated periods of sustained, rugged military usage, extended inactivity, storage and/or transport.
- 1.3.5 The envisioned concept of operation for ICAMMS is as follows:
  - 1.3.5.1 Two or more operators will deploy the ICAMMS from a stowed configuration to its carrying configuration.
  - 1.3.5.2 The operators will bring the ICAMMS close to the container to be lifted (depending on the distance, it may be towed to the container by the towing vehicle).
  - 1.3.5.3 The operators will install the ICAMMS on the ISO container, and use the integrated lifting system to raise the container.
  - 1.3.5.4 The operators will attach the front of the ICAMMS system to a compatible inservice CAF vehicle and allow the raised container to be moved to a new location.
  - 1.3.5.5 The operators will lower the container to the ground. The operators will then disconnect the ICAMMS, and return it to a carrying configuration.

1.3.5.6 The total duration of the attachment, lifting, lowering and removing tasks should not exceed two (2) hours.

#### 1.4 Acronyms and Abbreviations

ACA (Calendar days) After Contract Award

CA Contracting Authority

CAF Canadian Armed Forces

CDRL Contract Data Requirements List

CFB Canadian Forces Base

CSA Canadian Standards Association

DID Data Item Description

DND Department of National Defence

EEA Equipment Environmental Assessment

FAT First Article Test

FATP First Article Test Plan

FATR First Article Test Report

IAW In Accordance With

ICAMMS ISO Container Administrative Movement and Maintenance System

ICT Initial Cadre Training

ILS Integrated Logistics Support

ISO International Organization for Standardization

KO Kick Off

NATO North Atlantic Treaty Organization

NCAGE NATO Commercial and Government Entity

NSN NATO Stock Number

OEM Original Equipment Manufacturer
OQRC Operator Quick Reference Card

PA Procurement Authority

PCB Polychlorinated Biphenyls

PPB Provisioning Parts Breakdown

RVM Requirements Verification Matrix

SDS Safety Data Sheet
SE Systems Engineering

SMP Standard Military Pattern

SOW Statement of Work

SPTD Supplementary Provisioning Technical Documentation

TA Technical Authority

TEU Twenty Foot Equivalent Unit

UID Unique Identifier

UII Unique Item Identifier

WHIMS Workplace Hazardous Materials Information System

#### 2.0 APPLICABLE DOCUMENTS

#### 2.1 References

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

#### **GOVERNMENT FURNISHED INFORMATION**

REFERENCE NUMBER	PROMULGATION DATE	REFERENCE TITLE
A-LM-505-702/JS-001	2020-05-30	UNIQUE IDENTIFICATION AND STANDARDIZED MARKING OF SERIALLY MANAGED MATERIEL
C-01-100-100/AG-005	2019-06-30	POLICY/MANAGEMENT PROCEDURES AND GUIDELINES ACCEPTANCE OF COMMERCIAL AND FOREIGN GOVERNMENT PUBLICATIONS AS ADOPTED PUBLICATIONS
C-01-100-100/AG-006	2018-08-31	POLICY/MANAGEMENT PROCEDURES AND GUIDELINES WRITING FORMAT, AND PRODUCTION OF TECHNICAL PUBLICATIONS
C-01-100-100/AG-008	2018-08-01	POLICY/MANAGEMENT PROCEDURES AND GUIDELINES SPECIFICATION WRITER'S GUIDE FOR TECHNICAL DOCUMENTATION
D-01-100-204/SF-000	2018-08-31	PREPARATION OF PREVENTIVE MAINTENANCE INSTRUCTIONS
D-01-100-205/SF-000	2000-10-31	SPECIFICATION – PREPARATION OF CORRECTIVE MAINTENANCE INSTRUCTION
D-01-100-207/SF-002	1996-07-12	SPECIFICATION – PREPARATION OF INTERIM ILLUSTRATED PARTS MANUALS FOR LAND EQUIPMENTS
D-01-100-214/SF-000	2020-09-30	CANADIAN FORCES SPECIFICATIONS – PREPARATION OF PROVISIONING DOCUMENTATION FOR CANADIAN ARMED FORCES EQUIPMENT
D-02-002-001/SG-001	2021-06-30	CANADIAN FORCES STANDARD – IDENTIFICATION MARKING OF DEPARTMENT OF NATIONAL DEFENCE MATERIEL
D-LM-008-001/SF-001	1986-06-30	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
D-LM-008-036/SF-000	2020-09-30	CANADIAN FORCES SPECIFICATIONS – DEPARTMENT OF NATIONAL DEFENCE MINIMUM REQUIREMENTS FOR COMMERCIAL PACKAGING

#### **COMMERCIALLY AVAILABLE**

REFERENCE NUMBER	PROMULGATION DATE	REFERENCE TITLE
AMS-STD-595	LATEST EDITION	COLORS USED IN GOVERNMENT PROCUREMENT
BS EN 1494	LATEST EDITION	MOBILE OR MOVABLE JACKS AND ASSOCIATED LIFTING EQUIPMENT
ISO 3874	LATEST EDITION	SERIES 1 FREIGHT CONTAINERS – HANDLING AND SECURING
ISO 668	LATEST EDITION	SERIES 1 FREIGHT CONTAINERS – CLASSIFICATION, DIMENSIONS AND RATINGS
MIL-STD-810H	LATEST EDITION	ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS
MIL-STD-1472	LATEST EDITION	HUMAN ENGINEERING
SOR/2008-273	LATEST EDITION	PCB REGULATIONS
SOR/2012-285	LATEST EDITION	PROHIBITION OF CERTAIN TOXIC SUBSTANCES REGULATIONS
SOR/2014-254	LATEST EDITION	PRODUCTS CONTAINING MERCURY REGULATIONS
SOR/2018-196	LATEST EDITION	PROHIBITION OF ASBESTOS AND PRODUCTS CONTAINING ASBESTOS REGULATIONS

#### 2.2 Order of Precedence

- 2.2.1 In the event of conflict between the content in this SOW and the referenced documents, the content of this SOW will take precedence.
- 2.2.2 Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

#### 3.0 PROJECT MANAGEMENT

#### 3.1 Project Management Capability

- 3.1.1 The Contractor must establish, provide and maintain a project management capability to plan, execute and control all Work IAW cost, schedule and performance requirements of the ICAMMS Contract to:
  - 3.1.1.1 Co-ordinate with Canada; and
  - 3.1.1.2 Plan and control the work of subcontractors.
- 3.1.2 The Contractor's Project Manager must be the primary point of contact with the Technical Authority and Contract Authority for all issues related to the Work and Contract.
- 3.1.3 The Contractor's Project Manager must be present at the Kick-off Meeting, and at other meetings when requested by Canada. If the Project Manager does not have final approval authority for decision making and changes, then the person that has that final approval authority must also be present.

#### 3.2 System Engineering Management Capability

3.2.1 The Contractor must make use of an accredited professional engineer to approve and stamp any designs or certifications.

#### 3.3 **Project Meetings**

- 3.3.1 Kick-off Meeting
  - 3.3.1.1 The Contractor must organize and chair a kick-off meeting no later than within 28 days following the contract award, and secure a common understanding of the following:
    - 3.3.1.1.1 The requirements of the Contract;
    - 3.3.1.1.2 The requirements of the SOW;
    - 3.3.1.1.3 General overview of the project, risks, schedule and communication channels to follow, and
    - 3.3.1.1.4 Other contractual and programmatic issues associated with the project as agreed between the TA, CA and the Contractor.
  - 3.3.1.2 This meeting may take place via videoconference.
  - 3.3.1.3 Other Meetings
  - 3.3.1.4 The Contractor and the TA may schedule informal reviews, such as in-person meetings, teleconferences, video conferences, briefings and technical interchange meetings, to help achieve the requirements of the Contract.
  - 3.3.1.5 Refer to Meeting Documentation requirements found at ANNEX A para. 3.3.2.

#### 3.3.2 Meeting Documentation

- 3.3.2.1 The Contractor must provide the Meeting Agenda(s) IAW CDRL ICAMMS-PM-001 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-PM-001 at Appendix A3.3 to ANNEX A.
- 3.3.2.2 The Contractor must record, prepare, and provide the Meeting Minutes of each meeting IAW CDRL ICAMMS-PM-002 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-PM-002 at Appendix A3.4 to ANNEX A.
- 3.3.2.3 No change in the interpretation of the SOW, Technical Specification, cost, and schedule, as defined in the Contract, may be authorized by the minutes of a meeting. Such changes will require formal contract amendment by the CA.

#### 4.0 Technical Requirements

#### 4.1 Standard Design

- 4.1.1 Industry Acceptability The ICAMMS design must have demonstrated industry acceptability by having been manufactured and sold commercially for at least 2 years, or be manufactured by a company that has at least 5 years' experience in design and manufacturing of a comparable type of equipment of equivalent or greater complexity.
- 4.1.2 Measurements Values for labels and indicators provided with equipment must be presented in metric units, or must have both imperial and metric units with metric dominant.

#### 4.2 **System Description**

- 4.2.1 The ICAMMS must be portable, structurally self-supporting above ground and fully operable on level ground.
- 4.2.2 The ICAMMS must achieve its task 99% of times, without essential function failure / unscheduled corrective maintenance, and with manufacturer's recommended preventive maintenance performed.
- 4.2.3 The ICAMMS must share at least 90% of its parts with a currently in-service and commercially available ISO container lifting device.
- 4.2.4 The ICAMMS must conform to the detailed technical requirements listed in Appendix A1.

#### 4.3 Requirements Verification Matrix (RVM)

- 4.3.1 The Contractor must provide an RVM IAW CDRL ICAMMS-SE-101 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-SE-101 at Appendix A3.6 to ANNEX A.
- 4.3.2 The Contractor must utilize the Technical Specification(s) at Appendix A1.0 to ANNEX A, to develop the RVM and demonstrate compliance to the Technical Specification.

#### 4.4 First Article Test

#### 4.4.1 First Article Unit

4.4.1.1 The Contractor must reserve the first article for First Article Test.

and associated Appendices. 4.4.1.3 The first article must be manufactured using the established procedures, processes, personnel, materials, and facilities of a full production unit. 4.4.2 First Article Test Plan (FATP) 4.4.2.1 The Contractor must provide an FATP IAW CDRL ICAMMS-SE-102 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-SE-102 at Appendix A3.7 to ANNEX A. 4.4.2.2 The FAT must not commence until notification is received from the TA that the FATP has been approved. 4.4.3 First Article Test 4.4.3.1 The Contractor must subject the first article to all requirements IAW the approved FATP. 4.4.3.2 The Contractor must complete First Article Test at Contractor's facility. 4.4.3.3 The Contractor must provide one (1) 1C or 1CC configuration container loaded to gross weight of 16,500 kg, for all applicable FAT tests. 4.4.3.4 The Contractor must coordinate access to First Article Test for DND witnesses, including but not limited to the Technical Authority and Contracting Authority. 4.4.4 First Article Test Report (FATR) The Contractor must provide an FATR IAW CDRL ICAMMS-SE-103 at Appendix 4.4.4.1 A2.2 to ANNEX A and its associated DID ICAMMS-SE-103 at Appendix A3.8 to ANNEX A. 4.4.4.2 A written notice of approval or rejection of the FATR will be provided to the Contractor by the TA. 4.4.4.3 If the FAT is rejected, the Contractor must resolve deficiencies with the equipment and, if requested by the TA, repeat any or all FATP requirements. 4.4.4.4 All costs related to First Article re-work or re-tests must be borne by the Contractor. 4.4.5 Delivery of the First Article 4.4.5.1 Upon acceptance of the FATR, the Contractor must re-work and re-condition the First Article to the newly manufactured condition (up to and including paint touch ups).

The first article must consist of a complete ICAMMS as specified in this SOW

#### 4.5 **Delivery of ICAMMS Equipment**

End Item Deliverables.

4.4.5.2

4.4.1.2

The reconditioned first article must be delivered to Canada as part of the final

- 4.5.1 Upon acceptance of the FATR, the Contractor must deliver ICAMMS systems IAW the quantities and delivery destination specified in Annex B of the Request for Proposal.
- 4.5.2 The Contractor must deliver ICAMMS equipment with an initial allotment of Preventive Maintenance Spare Parts.
- 4.5.3 The Contractor must include, in the initial allotment of Preventive Maintenance Spare Parts, those components necessary for known preventive maintenance cycles for the first 24 months of service (less fluids).
- 4.5.4 End Item Deliverable Contents List

Item	Deliverable	Quantity	Reference
1	ICAMMS SYSTEM, including (per system):	56	4.2.4
1.1	ICAMMS assembly	1/system	4.2.4
1.2	ICAMMS stowage rack (if required)	1/system	A1.6.1
1.3	ICAMMS storage protective tarp	1/system	A1.6.7
1.4	Quick Reference Check List (hard copy)	1/system	5.2.1.2
1.5	Technical Manual (hard Copy)	1/system	5.2.1.1
1.6	Initial Allotment of Preventive Maintenance Spare Parts	1 kit/system	4.5.2

#### 5.0 INTEGRATED LOGISTICS SUPPORT (ILS)

#### 5.1 **Provisioning Data**

- 5.1.1 The Contractor must provide an PPB IAW CDRL ICAMMS-ILS-204 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-ILS-204 at Appendix A3.13 to ANNEX A.
- 5.1.2 The Contractor must provide SPTD IAW CDRL ICAMMS-ILS-205 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-ILS-205 at Appendix A3.14 to ANNEX A. SPTD, as prepared by the actual manufacturer of the item, is required for the codification and cataloguing of all items listed as recommended for procurement in the PPB.

#### 5.2 Publications and Technical Data

- 5.2.1 The following publications and technical data must be provided:
  - 5.2.1.1 Technical Manual The Contractor must provide a Technical Manual IAW CDRL ICAMMS-ILS-206 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-ILS-206 at Appendix A3.15 to ANNEX A. The Technical Manual will include operating instructions, preventive and corrective maintenance instructions, storage and preservation instructions (if required) and Illustrated Parts List.
  - 5.2.1.2 Operator's Quick Reference Card (OQRC) The Contractor must provide a Technical Manual IAW CDRL ICAMMS-ILS-207 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-ILS-207 at Appendix A3.16 to ANNEX A. The OQRC will provide essential instructions for the safe set-up and operation of the equipment.

#### 5.2.2 Manual Delivery with Equipment

5.2.2.1 One (1) complete set of manuals (ICAMMS Technical Manual, OQRC) must accompany each Equipment, shipped to each location.

#### 5.3 Training

#### 5.3.1 Master Lesson Plans

- 5.3.1.1 The Contractor must provide a Master Lesson Plan(s) IAW CDRL ICAMMS-ILS-208 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-ILS-208 at Appendix A3.17 to ANNEX A.
- 5.3.1.2 The Contractor must develop the Master Lesson plans such that no additional certifications, qualifications or courses are required to safely operate the ICAMMS system.

#### 5.3.2 Training Videos

5.3.2.1 The Contractor must provide a Video Training Package, IAW CDRL ICAMMS-ILS-209 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-ILS-209 at Appendix A3.18 to ANNEX A. The Video Training Package must provide discrete videos on the equipment description, unpacking, set-up and storage procedures, operating instructions, and preventive maintenance procedures.

#### 5.3.3 Initial Cadre Training (ICT)

- 5.3.3.1 The Contractor must provide ICT for CAF personnel who will operate and maintain the ICAMMS. The DND Technical Authority will coordinate with the Contractor the scheduling of the training sessions.
- 5.3.3.2 The Contractor must prepare and present ICT training courses at five (5) different DND locations in Canada to a maximum of 50 CAF personnel (mixture of users and maintainers) for each course. In addition, up to an extra four (4) personnel from the National Defence Headquarters (NDHQ), who will be involved in managing the ICAMMS, may also attend.

5.3.3.3 The Contractor must provide ICT at the locations below:

ICT Serial	Location
1	CFB Petawawa
2	CFB Valcartier
3	CFB Gagetown
4	CFB Borden (DND will be responsible for shipping equipment to CFB Borden).
5	CFB Edmonton

- 5.3.3.4 The ICT sessions must not be more than three (3) days in duration.
- 5.3.3.5 The ICTs must be conducted in English or French. It is expected that 4 of 5 ICT sessions will be in English, and 1 of 5 will be in French
- 5.3.3.6 The ICTs must make use of the actual ICAMMS delivered to DND.
- 5.3.4 The Contractor must provide two (2) instructors for each training session.
- 5.3.5 At least one (1) instructor must have the ability to provide the training session and answer any relevant questions in French.
- 5.3.6 DND will provide the facilities, ISO Containers and common tools required to perform the training.

#### 5.4 Instruments, Decals, Data Plates and Warnings

- 5.4.1 Item Identification Marking and Labelling
  - 5.4.1.1 As it is subject to serial management, the ICAMMS must have a Unique Item Identifier or Recognized UII-Equivalents marked on the item IAW A-LM-505-702/JS-001.
    - 5.4.1.1.1 The Contractor must provide a UID Marking Specification IAW CDRL ICAMMS-ILS-201 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-ILS-201 at Appendix A3.10 to ANNEX A.
    - 5.4.1.1.2 The Contractor must provide a UID Data Submission IAW CDRL ICAMMS-ILS-202 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-ILS-202 at Appendix A3.11 to ANNEX A.
    - 5.4.1.1.3 The Contractor must provide a UID Data Verification and Validation Report IAW CDRL ICAMMS-ILS-203 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-ILS-203 at Appendix A3.12 to ANNEX A.

#### 6.0 ENVIRONMENTAL MANAGEMENT AND ASSESSMENT

#### 6.1 **General**

- 6.1.1 Prohibition of Certain Toxic Substances
  - 6.1.1.1 The Contractor must not incorporate, in any part of the equipment substances listed under the regulation Prohibition of Certain Toxic Substances Regulations (SOR/2012-285).
- 6.1.2 The Contractor must minimize the use of mercury in the equipment, IAW the Products Containing Mercury Regulations (SOR/2014-254).
  - 6.1.2.1 If mercury is present in any part of the equipment, the mercury content limit must comply with the regulation (SOR/2014-254).
- 6.1.3 The Contractor should not incorporate, in any part of the equipment, Polychlorinated Biphenyls (PCBs) IAW Polychlorinated Biphenyls (PCBs) Regulations (SOR/2008-273).
  - 6.1.3.1 If PCBs are present in any part of the equipment, they must comply with the regulation (SOR/2008-273).
  - 6.1.3.2 If such substances must be used, the Contractor must certify that there is no technically or economically feasible PCB-free alternative, as part of the Equipment Environmental Assessment.
- 6.1.4 The Contractor must offer asbestos-free equipment, IAW the Prohibition of Asbestos and Products containing Asbestos Regulations (PAPCAR): SOR/2018-196.

#### 6.2 Equipment Environmental Assessment

6.2.1 The Contractor must provide an Equipment Environmental Assessment (EEA) IAW CDRL ICAMMS-SE-104 at Appendix A2.2 to ANNEX A and its associated DID ICAMMS-SE-104 at Appendix A3.9 to ANNEX A. The EEA evaluates the potential risks to the environment during the operation, maintenance and disposal of the equipment.

#### 6.3 Environmental Management System

6.3.1 The Contractor must implement and maintain an Environmental Management System (EMS) appropriate to the scope of work to be performed. It is recommended that the quality system be based on ISO 14001:2015 – Environmental Management Systems.

## ISO CONTAINER ADMINSTRATIVE MOVEMENT AND MAINTENANCE SYSTEM (ICAMMS)

## REQUIREMENT VERIFICATION MATRIX (RVM)

#### **APPENDIX A1**

#### A1.0 APPENDIX: ICAMMS TECHNICAL SPECIFICATION

#### A1.1 **GENERAL**

- A1.1.1 The Requirement Verification Matrix listed below populates every requirement of the ICAMMS and with mandatory Means of Compliance.
- A1.1.2 The Verification Matrix defines the Means of Compliance that must be followed and met by the Contractor to verify compliance with each requirement for the First Article Test (FAT) after Contract Award.
- A1.1.3 All Means of Compliance must be executed by the Contractor, witnessed and approved by DND accordingly.
- A1.1.4 **Means of Compliance Required:** The technique being used to prove compliance with the requirement specification including Documentation, Certification, Analysis, Inspection, and Test.
  - A1.1.4.1 **Documentation (D):** A background record that demonstrates the ICAMMS meets the specified standards and requirements. Compliance documentation includes, but is not limited to, previous data, previous test reports (including test procedures and test results), previous equivalence reports, and Original Equipment Manufacturer Technical Literature. Documentation data must be subject to Technical Authority Approval. If Documentation data is considered inadequate, the Technical Authority reserves the right to invoke Certification, Analysis or Test, at Contractor's expense. Documentation can either be provided by the Contractor or a 3rd party (e.g. Catalog pages or data sheets for commercially available components)
  - A1.1.4.2 **Certification (C):** Conformance certification from the Contractor (i.e. Compliance Statement).
  - A1.1.4.3 **Certification (C3)**: Conformance certification from an authorized independent 3rd party (e.g. CSA Certification).
  - A1.1.4.4 Analysis (A): Verification through technical evaluations of calculations, computations, drawings, models, simulations, and analytical solutions, reduced data and representative data to determine if the item conforms to the specified requirements of this Contract. Analysis must not be limited to raw data but must contain justification as to how the data verifies that the requirement will be met. Analysis data must be subject to Technical Authority Approval. If Analysis data is considered inadequate, the Technical Authority reserves the right to invoke further Documentation, Certification or Test, at Contractor's expense.
  - A1.1.4.5 **Inspection (I):** Examination using the physical senses (i.e. visual inspection including basic measurements) to determine compliance with requirements. This will be completed on the First Article Unit

- A1.1.4.6 **Test (T):** An action that the operability, supportability, or performance capability of an item is verified when subjected to controlled conditions that are real or simulated. Unless otherwise specified, this testing is to occur as part of FAT. Some tests may use special test equipment, instrumentation or procedures. DND may conduct their own independent testing to verify requirements.
- A1.1.4.7 **Loaded:** Unless otherwise specified, "Loaded" herein is defined as the ICAMMS, with wheel stations connected and secured to the four corners of a 20 foot container (1C or 1CC configuration). The container must be loaded to a total gross weight of 16,500kg, with load evenly distributed within the container. The container must be lifted to a uniform height of 200mm (as measured between the ground and the underside of the container).
- A1.1.4.8 **Unladen:** Unless otherwise specified, "Unladen" herein is defined as the ICAMMS, with all four wheel stations linked together (with or without the use of an adaptor or stand) and without being secured to an ISO container. All four wheel stations must be in contact with the ground. Clearance between all other components and the ground must be a minimum of 100mm.
- A1.1.4.9 **Cycle:** Unless otherwise specified, "Cycle" herein is defined as the ICAMMS being installed on an ISO container, lifting an ISO container, moving 1km loaded, lowering the container and being removed from the container. Then, unladen, the ICAMMS is moved 500m to a storage location.

TECHNICAL SPECIFICATIONS			VERIFICATION METHOD (see RVM)
A1.2 <b>G</b>	eneral T	echnical Requirements	
A1.2.1		AMMS must be operable by any combination of two operators ranging from 5th percentile female to percentile male, as defined in MIL-STD-1472G, including during set-up and teardown.	Т
A1.3 <b>L</b> c	oad Cap	ability	
A1.3.1		AMMS must lift and tow a variety of ISO container sizes, specifically the following container designations ned in ISO 668:	
A1.3	3.1.1	1A, 1AA, and 1AAA	D, I
A1.:	3.1.2	1B, and 1BB	
A1.	3.1.3	1CX, 1C, and 1CC	

Λ 4	2.4.4							
A1.	3.1.4 1DX and 1D							
A1.	3.1.5 "Tricon" (1968 mm long x 2438 mm high x 2438 mm wide)							
A1.	3.1.6 "Quadcon" (1460 mm long x 2438 mm high x 2438 mm wide)							
A1.3.2	The ICAMMS must lift, support and move an evenly and unevenly loaded 20 foot container (1C or 1CC configuration) with a total gross weight of 16,500 kg at a height of 200 mm from the ground to the underside of the container. In addition, the ICAMMs must safely support at least 5500 kg at each corner while immobile or moving.							
A1.3.3	The ICAMMS primary load bearing point of attachment to the ISO containers must be to each of the four (4) lower ISO corner apertures.							
A1.3.4	The ICAMMS must attach to the four (4) lower ISO corner apertures whilst the container is laid directly on a smooth, paved surface or raised on blocks up to and including 8 inch by 8 inch wooden blocks.							
A1.3.5	The ICAMMS must contain a securing mechanism when fastened to the ISO corner apertures using a quarter turn locking handle or equivalent ISO corner lock.							
A1.3.6	The ICAMMS ISO corner lock securing mechanism must feature a latch or locking pin to prevent accidental release of the ISO corner lock.							
A1.3.7	The ICAMMS must incorporate an integral lifting system to raise the ISO container to 450 mm or more above grade, as measured from the bottom surface of the ISO container.							
A1.3.8	The ICAMMS must incorporate a positive lock or self-braking mechanism such that unintentional and unintended vertical descent of the load is prevented.							
A1.3.9	The ICAMMS must only operate using an integral mechanical and human powered hydraulic means only and not use any electrical or external power source to raise and lower the ISO container.							
A1.4 <b>M</b>	obility							
A1.4.1	A removable push-pull type handle must be included to allow personnel to push or pull individual wheel assemblies into place during set-up, tear-down or storage.	Т						

A1.4.2	The ICAMMS must include a tow bar enabling an ISO container up to a gross weight of 16,500 kg to be towed using the tow bar by any CAF SMP vehicle, as well as a 6000 lb or larger forklift.	Т
A1.4.3	The ICAMMS tow bar must have a NATO STANAG 4101 compliant lunette.	l I
A1.4.4	The ICAMMS must manually lift, support, secure and be towed with an ISO containers with a gross weight of 16 500 kg, at a minimum speed of 5 km/h, for a distance of up to 10 km on mostly paved roads with a 10 degree longitudinal and side slopes without disconnecting and any failure or damage to the ICAMMS and any of its mechanisms and to the ISO Container.	т
A1.4.5	The loaded ICAMMS must traverse uneven gravel with ruts or depressions up to 5 cm deep and loose gravel up to 1.5 cm in diameter at minimum speed of 5 km/h for 1 km.	Т
A1.4.6	The loaded ICAMMS must traverse snow up to a depth of 5cm on paved asphalt, snow deeper than 5 cm will need to be cleared prior to using ICAMMS.	А
A1.4.7	The loaded ICAMMS must traverse patches of loose sand of up to a depth of 5cm over hard-packed gravel (sand patch to be a minimum of 6 meters in length).	Т
A1.4.8	The ICAMMS must load and unload up to 20' TEU ISO containers from CC-130J cargo aircraft, military and commercial trucks, and flatbed trailers	А
A1.4.9	The loaded ICAMMS must negotiate obstacles of 5 cm high and 15 cm wide, as well as 10 degree longitudinal and side slopes at a minimum speed of 5 km/h.	Т
A1.4.10	The loaded ICAMMS must hold and maintain a position on a 10-degree slope unattended when detached from the prime mover. The means to hold the container can be manually activated while the ICAMMS is held in position with the tow vehicle.	Т
A1.4.11	The unladen ICAMMS must be towable at speeds up to 20 km/h on paved roads without degradation or damage.	Т
A1.4.12	The ICAMMS must have wheel assemblies that can rotate 180 degrees or more on the "front" pair of wheels, to enable maneuverability of the loaded ICAMMS. It is desirable that all four wheels feature rotating wheel assemblies with at least 180 degrees of rotation at each wheel assembly.	Т

A1.4.13	13 If all four wheels are able to steer, then the "rear" wheels must lock in a longitudinal position for stability whilst towing.				
A1.4.14	The loaded ICAMMS, when towed, must have a steering angle of a minimum of 40 degrees.	Т			
A1.4.15	The ICAMMS steering input, when towed, must be generated by displacement of the tow bar.	Т			
A1.5 <b>E</b> r	vironmental Conditions				
A1.5.1	The ICAMMS must operate in all climatic conditions with ambient temperatures ranging from -30°C through +50°C, inclusive. Compliance with high temperature operation requirements must be proven by MIL-STD 810H Method 501.7 Procedure II and compliance with low temperature operational requirements must be proven by MIL-STD 810H Method 502.7 Procedure II.	A			
A1.5.2	The ICAMMS should operate, without malfunction, in all climatic conditions with the ambient temperature from -46°C through +50°C inclusive.				
A1.5.3	The ICAMMS, in storage configuration, must be weather resistant such that when stored outdoors, it will not suffer deterioration, at ambient temperatures between –46°C / –51°F and +50°C / +122°F.	C or A			
A1.5.4	The ICAMMS must operate in heavy rain, as described by MIL-STD-810H Method 506.6 2.3.3 Procedure I	D			
A1.5.5	The ICAMMS must be resistant to sand and dust, IAW MIL-STD-810G, method 510.5, Procedures I & II; no certification required.	D			
A1.5.6	The ICAMMS must not permit water accumulation in pockets, creases, fissures or depressions that could cause damage or inoperability upon freezing.	I			
A1.6 <b>Tr</b>	ansportability				
A1.6.1	The ICAMMS must consolidate to a single, self-supporting assembly for storage and transportation (the "storage and transportation configuration"). The use of a separate storage rack, if required for consolidation and forklift transport, is acceptable.	Т			
A1.6.2	The ICAMMS, in its storage and transportation configuration, must withstand tilting up to 45° (longitudinal and lateral axes), without damage, lost fluids or other degradation.	Т			
A1.6.2		-			

A1.6.3	The ICAMMS in its storage and transportation configuration must be transportable by forklift as a single assembly.	Т					
A1.6.4	The ICAMMS must transition from storage and transportation configuration to unladen towing without the use of lifting devices or special tools.						
A1.6.5	The ICAMMS must be transportable by land, sea, or air, either within an ISO container or as bulk cargo on an open deck.						
A1.6.6	The ICAMMS, in Transportation/Storage configuration, must resist transit drop, IAW MIL-STD 810H, Procedure 516.8 Procedure IV (Transit Drop). Drop conditions must be IAW requirements of Table 516.8-IX	Т					
A1.6.7	The ICAMMS must be provided with a heavy duty, weatherproof tarp for long term storage.	1					
A1.7 R	eliability						
A1.7.1	The ICAMMS must have a Mean Cycles Between Failures (MCBF) of 100, with all manufacturer's recommended preventive maintenance performed. A cycle is defined as the loading, 2 km loaded travel and unloading of the container.	A					
A1.7.2	The equipment must be designed with safety in mind, so that no critical error occurs during operation. Reference BS EN 1494 for design standards.	I					
A1.8 <b>H</b>	ealth and Safety						
A1.8.1	The ICAMMS must have danger and caution signs, labels and markings on it for warning of specific hazards such as voltage, current, thermal or physical hazards IAW Canadian Centre for Occupation Health.	1					
A1.8.2	All signs, labels and markings must be provided in both English and French.	I					
A1.9 <b>C</b>	onstruction						
A4 O 4	The ICAMMS must be made using new materials and components only.	D					
A1.9.1							

A1.10.1 The ICAMMS must be constructed of materials resistant to or life term protected against corrosion and deterioration caused by atmospheric conditions, corrosive agents, ground moisture, and salt.	D
A1.10.2 The ICAMMS exterior color must be safety yellow, #13591 IAW AMS-STD-595C.	I
A1.10.3 Coatings must level out to an adherent, continuous and uniform film without runs, wrinkles, streaks, or areas of no film.	I
A1.10.4 Any coating damaged during inspection or examination must be touched up. There must be no areas where rust can accrue.	I
A1.10.5 Finish must be free of blistering, peeling and chips.	1
A1.11 Preservation and Winterization	
A1.11.1 The system must be designed to be preserved for periods exceeding one (1) year, with minimal maintenance required during storage.	I, D
A1.12 Certification and Guarantees	
A1.12.1 Lifting capacity must be certified using tests stated in document BS EN 1494 Appendix B1.1 and, if applicable, Appendix B1.2 of that document.	С
A1.13 Identification and Marking	
A1.13.1 In addition to the general marking and identification requirements of D-02-002-001/SG-01, the following requirements apply:	I
A1.13.2 Lifting Devices must include a serialized data plate and UID tag, prepared IAW A-LM-505-702/JS-001.	I
A1.13.3 Each mechanical jack component of the ICAMMS must have forged, cast, die stamped, etched, or fixed label markings by the manufacturer to show the following as per document BS EN 1494 paragraph 7.2:	
	I

A1.13.3.2	Rated load;	
A1.13.3.3	Serial number or batch code, and	
A1.13.3.4	Contract Number	

## ISO CONTAINER ADMINSTRATIVE MOVEMENT AND MAINTENANCE SYSTEM (ICAMMS)

#### **CONTRACT DATA REQUIREMENTS LIST (CDRL)**

#### **APPENDIX A2**

#### A2.0 APPENDIX: CONTRACT DATA REQUIREMENTS LIST

#### A2.1 Management and Explanation of the CDRL

#### A2.1.1 Explanation of the CDRL

- A2.1.1.1 **CDRL Line Number** This field provides the unique sequential number that identifies each data item within different functional groups (eg, PM-001, SE-101, & ILS-201).
- A2.1.1.2 **CDRL Title** This field identifies the title of the data item.
- A2.1.1.3 **SOW Para Ref** This field shows the paragraph in the SOW where the data item is stipulated. There may be multiple references to the data item in the SOW, but generally only the first (or one) reference is shown in the CDRL.
- A2.1.1.4 **Version** This field identifies the particular delivery of a data item during its lifecycle (ie, draft, final).
- A2.1.1.5 **Delivery Schedule** This field specifies the date(s) and/or events by which the data item is required to be delivered. The date of delivery applies to all delivery locations and quantities unless otherwise specified. Following are some of the abbreviations and symbols used with this column:
- A2.1.1.5.1 "ACA" means After Contract Award;
- A2.1.1.5.2 'KO' means the Kick-Off Meeting date;
- A2.1.1.5.3 Numerals indicate the number of Calendar Days, unless specified otherwise;
- A2.1.1.5.4 '+' means after the specified date or event; and
- A2.1.1.5.5 '-' means before the specified date or event.
- A2.1.1.5.6 If a data item is required to be delivered before an event having a duration of greater than one day, delivery date must be calculated from the first day of that event. If a data item is required to be delivered after an event having a duration of greater than one day, the delivery date must be calculated from the last day of that event.
- A2.1.1.6 Quantity This field specifies the total number of data items to be delivered to the associated delivery location(s), including the number of hard (H) and soft (S) copies. When both hard and soft copies are requested, the action copy will be indicated in the notes column.
- A2.1.1.7 Addressee This field shows the short title of the DND representative to whom the hard and soft copies of the data items must be delivered. The action hard copy of the data item must be delivered to the first nominated location in this field.
- A2.1.1.8 **Data Item Description Reference** This field provides the identification of the DID with which the data item must comply.

A2.1.1.9 DND Action Period – This field defines the number of Calendar Days available to the DND to action the data item and respond to the Contractor, if that action requires a response.
 A2.1.1.9.1 The period begins upon the date the action copy of the data item is received at the first nominated addressee.
 A2.1.1.10 DND Action Required – This field indicates the purpose for which the data item is being submitted to the DND, which will either be for Review, Approval or Acceptance.
 A2.1.1.11 Notes: Where necessary, additional explanatory information relating to a CDRL data item is provided in this column.

#### A2.2 CDRL Item List

CDRL#	CDRL Title	SOW Para Ref	Version	Delivery Schedule	Qty	Addressee	DID # and Ref	DND Action Period	DND Action Required	Notes
ICAMMS-PM-001	Meeting Agenda	Para. 3.3.2.1	Draft	Meeting Date -5	1S	CA, TA, PA	ICAMMS-PM-001	3	Review	
			Revised	Meeting Date - 1	1S	CA, TA, PA	App. A3.3			
			Final	Meeting Date	1H	CA, TA, PA		7	Review or Acceptance	
ICAMMS-PM-002	Meeting Minutes	Para. 3.3.2.2	Draft	Meeting Date + 7	1S	CA, TA, PA	ICAMMS-PM-002	7	Review	
			Revised or Final	DND Comments + 7	1S	CA, TA, PA	App. A3.4	7	Review or Acceptance	
ICAMMS-PM-003	Standard Report	DID ICAMMS-					ICAMMS-PM-003			
	Format	SE-102					App. A3.5			
		DID ICAMMS- SE-103								
ICAMMS-SE-101	Requirements Verification Matrix	Para 4.3	Draft	ACA +28	1S	TA	ICAMMS-SE-101	14	Review	To be presented at Kick Off meeting.
			Revised	FAT -30	1S	TA	App. A3.6	7	Review	Revised RVM in support of FATP
			Revised	FAT + 60	1S	TA		7	Review	Revised RVM in support of FATR
			Revised or Final	DND comments + 7	1S	TA		7	Review or Acceptance	
ICAMMS-SE-102	First Article Test Plan	Para.4.4.2	Draft	90 ACA	1S	TA	ICAMMS-SE-102	14	Review	
			Revised	DND Comments +30	1S	TA	App. A3.7	7	Review	
			Revised or Final	DND Comments + 10	1S	TA		7	Review or Acceptance	
ICAMMS-SE-103	First Article Test Report	Para.4.4.4	Draft	FAT +30	1S	TA	ICAMMS-SE-103	14	Review	
			Revised or Final	DND Comments + 30	1S	TA	App. A3.8	7	Review or Acceptance	

CDRL#	CDRL Title	SOW Para Ref	Version	Delivery Schedule	Qty	Addressee	DID # and Ref	DND Action Period	DND Action Required	Notes
ICAMMS-SE-104	Equipment Environmental Assessment	Para. 6.2	Draft	ACA +180	1S	TA	ICAMMS-SE-104	14	Review	
			Revised or Final	DND Comments + 30	1S	ТА	Арр. АЗ.9	7	Review or Acceptance	
ICAMMS-ILS-201	UID Marking Specifications	Para.5.4	Draft	ACA +90	1S	TA	ICAMMS-ILS-201	14	Review	
			Revised or Final	DND Comments + 30	1S	TA	App. A3.10	7	Review or Acceptance	
ICAMMS-ILS-202	UID Data Submission	Para. 5.4	Draft	ACA +150	1S	TA	ICAMMS-ILS-202	14	Review	
			Revised or Final	DND Comments + 30	1S	TA	App. A3.11	14	Review or Acceptance	
ICAMMS-ILS-203	UID Verification and Validation Report	Para.5.4	Draft	UID Data Submission +60	1S	TA	ICAMMS-ILS-203	14	Review	
			Revised or Final	DND Comments + 30	1S	TA	App. A3.12	14	Review or Acceptance	
ICAMMS-ILS-204	Provisioning Parts Breakdown	Para.5.1	Draft	FAT +30	1S	TA	ICAMMS-ILS-204	14	Review	
			Revised or Final	DND Comments + 30	1S	TA	App. A3.13	14	Review or Acceptance	
ICAMMS-ILS-205	Supplemental Provisioning Technical Documentation	Para. 5.1	Draft	FAT +30	1S	TA	ICAMMS-ILS-205	14	Review	In conjunction with PPB submission.
			Revised or Final	DND Comments + 30	1S	TA	App. A3.14	14	Review or Acceptance	
ICAMMS-ILS-206	Technical Manual	Para.5.2	Draft English	FAT	1H/1S	TA	ICAMMS-ILS-206	30	Review	
			Revised English	DND Comments + 60	1S	ТА	Арр. А3.15	14	Review or Acceptance	
			Revised or Final English	DND Comments + 30	1S	ТА		7	Review or Acceptance	

CDRL#	CDRL Title	SOW Para Ref	Version	Delivery Schedule	Qty	Addressee	DID # and Ref	DND Action Period	DND Action Required	Notes
			Bilingual / French Draft	DND Comments +60	1S	ТА		30	Review	
			Revised or Final Bilingual / French	DND comments +30	1S	ТА		7	Review or Acceptance	
			Final Bilingual	With End Items	1H/ system					
ICAMMS-ILS-207	Operator's Quick Reference Card	Para.5.2	Draft English	FAT	1H/1S	ТА	ICAMMS-ILS-207	30	Review	
			Revised English	DND Comments +60	1S	ТА	App. A3.16	14	Review or Acceptance	
			Revised or Final English	DND Comments + 30	1S	ТА		7	Review or Acceptance	
			Bilingual / French Draft	DND Comments +60	1S	ТА		30	Review	
			Revised or Final Bilingual / French	DND comments +30	1S	ТА		7	Review or Acceptance	
			Final Bilingual	With End Items	1H/ system					
ICAMMS-ILS-208	Training Master Lesson Plan	Para. 5.3	Draft English	Final English Technical Manual +90	1H/1S	ТА	ICAMMS-ILS-208	30	Review	
			Revised or Final English	DND Comments + 30	1S	ТА	Арр. АЗ.17	7	Review or Acceptance	
			Bilingual / French Draft	DND Comments +60	1S	ТА		14	Review	

CDRL#	CDRL Title	SOW Para Ref	Version	Delivery Schedule	Qty	Addressee	DID # and Ref	DND Action Period	DND Action Required	Notes
			Revised or Final Bilingual / French	DND comments +30	1S	ТА		7	Review or Acceptance	
ICAMMS-ILS-209	Video Training Package	Para.5.3		Final English TMLP + 90	1H/1S	TA	ICAMMS-ILS-209	14	Review	
			Revised or Final English	DND Comments + 30	1S	ТА	App. A3.18	7	Review or Acceptance	
			Bilingual / French Draft	DND Comments +60	1S	ТА		14	Review	
			Revised or Final Bilingual / French	DND comments +30	1S	ТА		7	Review or Acceptance	

# ISO CONTAINER ADMINISTRATIVE MOVEMENT AND MAINTENANCE SYSTEM (ICAMMS)

# **DATA ITEM DESCRIPTION**

## **APPENDIX A3**

## A3.0 APPENDIX: DATA ITEM DESCRIPTION

## A3.1 Data Deliverable Format

- A3.1.1 Unless otherwise specified as a specific requirement, the Contractor must deliver all of the soft copies of data deliverables, in formats compatible with the office software currently in use by the DND as listed:
  - A3.1.1.1 Microsoft (MS) Windows 10 Enterprise Operating System (OS);
  - A3.1.1.2 MS Edge 2019;
  - A3.1.1.3 MS Office Professional Plus 2013 (Word, Excel, Access, PowerPoint and Outlook); and
  - A3.1.1.4 Foxit PhantomPDF version 10;

## A3.2 **DID Table Definitions**

- A3.2.1 The following section defines the various blocks of information found on the Data Item Description (DID) forms:
  - A3.2.1.1 **BLOCK 1 TITLE:** The title of the data item for the DID.
  - A3.2.1.2 **BLOCK 2 IDENTIFICATION NUMBER** The Data Item Description (DID) number, consisting of a sequential three-digit number and prefixed with an abbreviation code, to uniquely identify the DID. Note that the 001-099 series is reserved to Project Management (PM) DIDs, the 101-199 series is reserved to Systems Engineering (SE) DIDs and the 201-299 series is reserved to Integrated Logistics Support (ILS) DIDs. The abbreviation codes used for the prefix are:
    - A3.2.1.2.1 "PM" for Project Management
    - A3.2.1.2.2 "SE" for Systems Engineering
    - A3.2.1.2.3 "ILS" for Integrated Logistics Support
  - A3.2.1.3 **BLOCK 3 DESCRIPTION:** Provides a general description of the data content requirements.
  - A3.2.1.4 **BLOCK 4 RELATED DOCUMENT(S):** Provides a listing of the related documents and specifications associated with and required to produce this DID.
  - A3.2.1.5 **BLOCK 5 CONTRACT REFERENCE:** The specific paragraph numbers from the Contract Statement of Work and CDRL to assist in identifying the work effort associated with the data item.
  - A3.2.1.6 **BLOCK 6 PREPARATION INSTRUCTIONS:** Provides the preparation instructions for the content and format requirements for the DID.

## A3.3 DID - Meeting Agenda

DATA ITEM DESCRIPTION								
1. TITLE 2. IDENTIFICATION NUMBER								
Meeting Agenda	DID ICAMMS-PM-001							
3. DESCRIPTION								
The Meeting Agenda contains the venue information and identifuectings.	The Meeting Agenda contains the venue information and identifies the discussion items to be covered at meetings.							
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE							
	SOW: Para. 3.3.3.1							
	CDRL: App. A2.2							

#### 6. PREPARATION INSTRUCTIONS

#### 6.1. **CONTENT**

- 6.1.1. The Meeting Agenda must set forth the venue, identify all requirements and list the discussion items to be covered at the meeting.
- 6.1.2. Venue. The Meeting Agenda must address the venue as follows:
  - 6.1.2.1. Meeting Identification Number;
  - 6.1.2.2. Purpose;
  - 6.1.2.3. Date, time and location; and
  - 6.1.2.4. Attendees.
- 6.1.3. Discussion items. The Meeting Agenda must address the discussion items through the following sections:
  - 6.1.3.1. Agenda Review;
  - 6.1.3.2. Review of Previous Minutes;
  - 6.1.3.3. Opened Discussion Items;
  - 6.1.3.4. New Discussion Items;
  - 6.1.3.5. Review of Action Items;
  - 6.1.3.6. Closing Remarks.

## 6.2. HARD COPY FORMAT

6.2.1. The Meeting Agenda must be printed on 8.5"X11" Letter format paper.

- 6.3.1. The Meeting Agenda must be submitted as a MS Word file type.
- 6.3.2. The Meeting Agenda MS Word document must be submitted via email (submission size not to exceed 7MB) as follows:
  - 6.3.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.3.2.2. Subject Field: ICAMMS-PM-001 Meeting Agenda [Rev #] [Date of Issue]

## A3.4 **DID – Meeting Minutes**

DATA ITEM DESCRIPTION								
1. TITLE 2. IDENTIFICATION NUMBER								
Meeting Minutes	DID ICAMMS-PM-002							
3. DESCRIPTION								
The Meeting Minutes contains the detailed records of proceedings, discussions, decisions and action items from meetings.								
4. RELATED DOCUMENTS 5. CONTRACT REFERE								
	SOW: Para. 3.3.3.1							
	CDRL: App. A2.2							

## 6. PREPARATION INSTRUCTIONS

## 6.1. CONTENT

- 6.1.1. The Meeting Minutes must contain the detailed records of proceedings, discussions, decisions and action items from the meeting and be presented through the following sections:
  - 6.1.1.1. General consisting of meeting identification number, purpose, date, time and location;
  - 6.1.1.2. Attendees, consisting of the organization each person represents, and the identification of the Chairperson(s);
  - 6.1.1.3. Opening Remarks;
  - 6.1.1.4. **Action Item Report** used to monitor issues, assign responsibility, direct action and track status, history, and progress, and must consisting of:
    - 6.1.1.4.1. Item #; date initiated; required action; assigned actionee; target completion date; cross-reference to all related action items.
    - 6.1.1.4.2. Action Item Report must be **updated** with each meeting and must consisting of:
      - 6.1.1.4.2.1. Action Item current status and the actual date completed;
  - 6.1.1.5. Next Venue;
  - 6.1.1.6. Closing Remarks;

- 6.2.1. The Meeting Minutes must be submitted as a PDF file type.
- 6.2.2. The Meeting Minutes PDF must be submitted via email (submission size not to exceed 7MB) as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-PM-002 Meeting Minutes [Rev #] [Date of Issue]

## A3.5 **DID – Standard Report Format**

DATA ITEM DESCRIPTION								
1. TITLE	2. IDENTIFICATION NUMBER							
Standard Report Format	OID ICAMMS-PM-003							
3. DESCRIPTION								
The Standard Report Format describes the structure for formal reports that	are prepared by the Contractor.							
4. RELATED DOCUMENTS 5. CONTRACT REFERENCE								
DID ICAMMS-SE-102								
DID ICAMMS-SE-103								

## 6. PREPARATION INSTRUCTIONS

#### 6.1. **GENERAL FORMAT**

6.1.1. The Contractor must use a standard format for reports prepared for the Crown.

## 6.2. **CONTENT**

- 6.2.1. The Contractor's report must consist of the following:
  - 6.2.1.1. <u>Title Page.</u> The title page must contain the following information:
    - 6.2.1.1.1. Title: list name of report
    - 6.2.1.1.2. Contract No: state the contract number
    - 6.2.1.1.3. CDRL No: identify the CDRL
    - 6.2.1.1.4. Prepared For: state the name of the Project Management Office
    - 6.2.1.1.5. Prepared By: state the Contractor's name and address
    - 6.2.1.1.6. Approved by: provide a signature block for the Project Management Office
    - 6.2.1.1.7. Authenticated By: provide a signature block for Contractor approval signature(s)
  - 6.2.1.2. <u>Table of Contents.</u> The Table of Contents must list the title and page number of each titled paragraph and subparagraph, figure, table and appendix.
  - 6.2.1.3. <u>Document Control Log.</u> The Document Control Log must contain three columns: Revision, Date and Reason for the Change.
  - 6.2.1.4. Revision Record. The Revision Record must contain a listing of pages and their revision status.
  - 6.2.1.5. Subject Matter. This part contains the subject matter of the report.
    - 6.2.1.5.1. This part should contain any general information that aids in the understanding of the document such as background information and glossary.
    - 6.2.1.5.2. This part should include an alphabetical listing of all acronyms, abbreviations and their meanings as used in the report.

## 6.2.1.6. Appendices.

- 6.2.1.6.1. Each appendix must be referenced in the main body of the report where the data would normally have been provided.
- 6.2.1.6.2. Appendices may be used to provide information published separately for convenience in document maintenance such as charts and classified data.
- 6.2.1.6.3. Appendices may be bound as separate documents for ease of handling.

## A3.6 DID – Requirements Verification Matrix

DATA ITEM DESCRIPTION								
1. TITLE	2. IDENTIFICATION NUMBER							
Requirements Verification Matrix (RVM)	DID ICAMMS-SE-101							
3. DESCRIPTION								

The RVM provides bidirectional traceability from high-level system performance requirements, to the lowest-level requirements. The RVM shows the traceability and allocation of the requirements contained in the specification tree (i.e. performance specification, detailed specification, subsystem specification, software requirements specification, interface specification and design documentation). The RVM is also used to verify how each requirement is verified.

4. RELATED DOCUMENTS

Technical Specification at Appendix A1.0 to ANNEX A

SOW: Para. 4.3

CDRL: App. A2.2

## 6. PREPARATION INSTRUCTIONS

## 6.1. **CONTENT**

- 6.1.1. The RVM must provide backwards and forward traceability through multiple levels of design hierarchy (i.e. the RVM must document each requirement from its source through analysis, design, testing, and acceptance), to assess the impact of potential specification changes.
- 6.1.2. The RVM must include the verification criteria for each requirement for testing purposes.
- 6.1.3. The RVM must contain the following:
  - 6.1.3.1. **Architecture Description Page**: Include a detailed description of the RVM, show relationships and define all the terms, acronyms used in the RVM fields.
  - 6.1.3.2. Requirement Source & Reference: The paragraph number and requirement statement;
  - 6.1.3.3. **Verification Method**: For each requirement, enter the verification method. Verification methods are specified and defined in Appendix A1.0:
  - 6.1.3.4. **Verification Document**: Enter the document number, title, and date of the verification document that contains the verification method.
  - 6.1.3.5. **Verification Document Paragraph**: Enter the verification document paragraph number that provides the verification method.
  - 6.1.3.6. **Verification Procedure**: Enter the verification procedure section, and verification procedure step(s) that provides the verification method for each requirement.
  - 6.1.3.7. **Other Tests**: Enter the names of other tests conducted, prior to verification of the requirement, where the requirement is being tested.
  - 6.1.3.8. **Verification Results**: Enter the results of the verification for each requirement. Did system under test or inspection conform to the requirement? (Yes, No). Are the Certifications, Analysis and/or Documentation sufficient to prove conformance to the requirement?
  - 6.1.3.9. Corrective Actions: Enter all corrective actions taken and the results of the corrective actions.
  - 6.1.3.10. **Comments**: Enter explanatory notes as required.

## 6.2. **SOFT COPY FORMAT**

6.2.1. The RVM must be in an Excel Spreadsheet (MS Office Professional Plus 2013) / electronic relational database (DOORS 9.6 or Access Database (MS Office Professional Plus 2013)) format that can be manipulated to show bidirectional requirements traceability and track the verification of each requirement.

- 6.2.2. **Soft Copy format submission size below 7MB** The RVM may be submitted via email as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-SE-101 RVM [Rev #] [Date of Issue]
- **6.2.3. Soft Copy format submission size at or above 7MB** The RVM must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.3.2. RVM;
  - 6.2.3.3. ICAMMS-SE-101;
  - 6.2.3.4. The Revision number, and
  - 6.2.3.5. The date of issue.

## A3.7 DID - First Article Test Plan

DATA ITEM DESCRIPTION								
1. TITLE	2. IDENTIFICATION NUMBER							
First Article Test Plan (FATP)	DID ICAMMS-SE-102							

## 3. DESCRIPTION

The FATP documents the plan to demonstrate the proper operation of the equipment, IAW with the Requirements Verification Matrix (RVM). The FATP describes the general procedures, terms and conditions governing the planning, preparation and completion of acceptance testing covering the system submitted for acceptance.

4. RELATED DOCUMENTS

DID ICAMMS-SE-101

DID ICAMMS-SE-103

DID ICAMMS-PM-003 Standard Report Format

5. CONTRACT REFERENCE

SOW: Para. 4.4.2

CDRL: App. A2.2

## 6. PREPARATION INSTRUCTIONS

## 6.1. CONTENT

- 6.1.1. The FATP must describe the process of demonstrating the complete integration and proper operation of the system to qualify the first article unit for acceptance.
- 6.1.2. The FATP must include all Inspection and Test requirements necessary to complete the RVM and whether any requirement is to be proven by Certification, Analysis or Documentation.
- 6.1.3. The FATP must establish the approach, procedures, methods and techniques governing and planning, preparation and completion of acceptance testing for the system submitted for acceptance.
- 6.1.4. The Contractor must structure the FATP IAW the format specified by the Standard Report Format DID ICAMMS-PM-003.
- 6.1.5. The Contractor must include the following sections under the Subject Matter part of the FATP:
  - 6.1.5.1. Section I Scope.
    - 6.1.5.1.1. Section I must state the scope and purpose of the FATP.
    - 6.1.5.1.2. Section I must describe the ICAMMS equipment under test or inspection.
  - 6.1.5.2. Section II Related Documents.
    - 6.1.5.2.1. Section II must list the reference documents and any related documents.
  - 6.1.5.3. Section III Acceptance Testing or Inspection Program Management.
    - 6.1.5.3.1. Section III must be divided into the following to describe the planning associated with acceptance testing or inspection activities:
    - 6.1.5.3.1.1. Approach and procedures;
    - 6.1.5.3.1.2. Resource estimation and allocation to the test plan;
    - 6.1.5.3.1.3. Schedule of test or Inspection activities.
  - 6.1.5.4. Section IV Test or Inspection Objectives and Expected Results.
    - 6.1.5.4.1. Section IV must establish a unified set of objectives for the entire acceptance test program.
    - 6.1.5.4.1.1. The objectives must satisfy the system specifications.
    - 6.1.5.4.1.2. The objectives must state the expected test results.

- 6.1.5.5. Section V Acceptance Test or Inspection Approach and Activities.
  - 6.1.5.5.1. Section V must describe the overall plan for testing or Inspection.
  - 6.1.5.5.2. Section V must describe the method for each test or inspection.
  - 6.1.5.5.3. Section V must reference the RVM entries that detail which requirements are being tested or inspected, and whether Verification of a requirement will be established by the test
  - 6.1.5.5.4. Section V must include the following:
  - 6.1.5.5.4.1. Test management assurance activities to:
  - 6.1.5.5.4.2. Verify the establishment and adherence to test standards;
  - 6.1.5.5.4.3. Satisfy the test requirements; and
  - 6.1.5.5.4.4. Record the test or inspection results.
  - 6.1.5.5.4.5. Process to be followed in the event of failure.
  - 6.1.5.5.4.6. Process to be followed in the event of re-testing.
- 6.1.5.6. Section VI Test or Inspection Methods and Techniques.
  - 6.1.5.6.1. Section VI must describe the methods and techniques to be used for acceptance testing or inspection activities.
  - 6.1.5.6.2. Section VI must describe the following:
  - 6.1.5.6.2.1. Coordination of testing or inspection activities.
  - 6.1.5.6.2.2. Test equipment and test software (if applicable).
  - 6.1.5.6.2.3. Personnel support requirements.
  - 6.1.5.6.2.4. Overview of basic test or inspection methods planned to implement objectives.
  - 6.1.5.6.2.5. Identification of constraints.
  - 6.1.5.6.2.6. The test or inspection procedures.
  - 6.1.5.6.2.7. Analysis and evaluation techniques.
  - 6.1.5.6.2.8. Presentation of results.
- 6.1.5.7. Section VII Acceptance Test Products.
  - 6.1.5.7.1. Section VII must describe the products of the testing or inspection activities undertaken, including their format and structure of products produced, as well as any data to be collected and analyzed.

- 6.2.1. The FATP must be submitted as a .pdf file type.
- 6.2.2. **Soft Copy format submission size below 7MB** The FATP may be submitted via email as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-SE-102 FATP [Rev #] [Date of Issue]
- 6.2.3. **Soft Copy format submission size at or above 7MB** The FATP must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.3.2. FATP;
  - 6.2.3.3. ICAMMS-SE-102;
  - 6.2.3.4. The Revision number, and

## ANNEX A TO W8476-226567 REVISED 08 NOV 2022

6.2.3.5. Th	e date of issue.		

## A3.8 DID - First Article Test Report

DATA ITEM DESCRIPTION								
1. TITLE	2. IDENTIFICATION NUMBER							
First Article Test Report (FATR)	DID ICAMMS-SE-103							
3. DESCRIPTION								
The FATR provides confirmation that the first article unit of ICAMMS meets the technical requirements as specified in the contract.								
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE							
DID ICAMMS-SE-101	SOW: Para. 4.4.4							
DID ICAMMS-SE-102	CDRL: App. A2.2							
DID ICAMMS-PM-003 Standard Report Format								

## PREPARATION INSTRUCTIONS

## 6.1. CONTENT

- 6.1.1. The Contractor must structure the FATR IAW the format specified by the Standard Report Format DID ICAMMS-PM-003.
- 6.1.2. The FATR must include the information required for the Technical Authority to approve the FAT.
- 6.1.3. The FATR subject matter section must contain, as a minimum, the following information:
  - 6.1.3.1. the system, subsystem or major assembly covered by the FATR and reference to the test plan;
  - 6.1.3.2. Purpose of each test performed.
  - 6.1.3.3. Records of calibration of the test equipment.
  - 6.1.3.4. Details of the test procedure for each test, including pass/fail criteria.
  - 6.1.3.5. References to relevant FATP test plan/procedure and details of any differences between the FATP and the 'as run' test procedure;
  - 6.1.3.6. Statement of the test results for each test.
    - 6.1.3.6.1. Relevant verification results, with applicable raw results / measurement data, calculations, to be included as attachments;
  - 6.1.3.7. Analysis of each test result, with statement of pass/fail judgment.
  - 6.1.3.8. Summary of the results and conclusions from the verification activities;
  - 6.1.3.9. Discussion of any limitation or implications resulting from the verification activities;
  - 6.1.3.10. Summary of any actions taken as a result of non-compliance (e.g., change proposal, waiver or deviation);
  - 6.1.3.11. Recommendation for the acceptance of the system, subsystem or major assembly as applicable; and
  - 6.1.3.12. Conclusions.
- 6.1.4. The FATR must include, as an Appendix, the RVM requirements, certification, analysis and documentation to support RVM Means of Compliance.

- 6.2.1. The FATR must be submitted as a PDF file type.
- 6.2.2. Soft Copy format submission size below 7MB The FATR may be submitted via email as follows:

- 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
- 6.2.2.2. Subject Field: ICAMMS-SE-103 FATR [Rev #] [Date of Issue]
- 6.2.3. **Soft Copy format submission size at or above 7MB** The FATR must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.3.2. FATR;
  - 6.2.3.3. ICAMMS-SE-103;
  - 6.2.3.4. The Revision number, and
  - 6.2.3.5. The date of issue.

## A3.9 DID - Equipment Environmental Assessment

DATA ITEM DESCRIPTION								
1. TITLE	2. IDENTIFICATION NUMBER							
Equipment Environmental Assessment (EEA)	DID ICAMMS-SE-104							
3. DESCRIPTION								
The acquisition EEA identifies and documents potential environmental impacts of the equipment and the associated mitigation measures required to reduce or eliminate them.								
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE							
	SOW: Para. 6.2							
	CDRL: App. A2.2							

#### 6. PREPARATION INSTRUCTIONS

## 6.1. FORMAT

6.1.1. The EEA must be in the Contractor's format.

## 6.2. **CONTENT**

- 6.2.1. The EEA must contain the following sections and information, as a minimum:
  - 6.2.1.1. Title Page
    - 6.2.1.1.1. Equipment Name and NSN (if available)
    - 6.2.1.1.2. Assessment Contact: Name, title and company name of the author of the EEA
  - 6.2.1.2. Executive Summary
    - 6.2.1.2.1. Provide a brief summary of potential environmental impacts and recommended mitigation measures for life-cycle phases such as operation and maintenance and demilitarization and disposal.
  - 6.2.1.3. Equipment Description
    - 6.2.1.3.1. Provide an overview of the equipment and identify each major sub-system as per the Equipment Breakdown Structure.
  - 6.2.1.4. For each major sub-system, identify the following:
    - 6.2.1.4.1. Table 1 list the integrated hazardous substances and chemical products that must be identified, if they are incorporated in the equipment design. The hazardous chemical products must have safety data sheets (SDS) which conform to WHMIS 2015, to be provided in Annex A of the EEA.
    - 6.2.1.4.2. **Table 2** list the ionizing and non-ionizing radiation sources and batteries.
  - 6.2.1.5. Environmental Assessment
    - 6.2.1.5.1. For each lifecycle phase (operation and maintenance and disposal) discuss the following:
      - 6.2.1.5.1.1. Lifecycle activities: Describe anticipated activities and identify if any of these activities have the potential to: release a polluting substance to air, water or land (e.g. exhaust emissions, hazardous waste, spills, etc.); impact human health; noise or vibration; and/or alter landscape features.
      - 6.2.1.5.1.2. Environmental impacts: Describe the potential positive and negative environmental impacts of the listed lifecycle activities.
      - 6.2.1.5.1.3. For any positive environmental impacts identified, provide details (e.g. reduction of fuel consumption, emissions)

- 6.2.1.5.1.4. Mitigation Measures: Describe mitigation measures to eliminate or reduce identified potential negative environmental impacts, including those that are part of the design, any warning devices, emission control equipment, spill response, safe handling and disposal procedures, training, labels on equipment, cautions and warnings in the Technical Documentation, monitoring or inspections, etc.
- 6.2.1.6. Conclusions and Recommendations
  - 6.2.1.6.1. Summarize the main environmental impacts and recommended mitigation measures.
- 6.2.1.7. References
  - 6.2.1.7.1. List references consulted in the completion of the EEA (such as Canadian legislation, product technical documentation, etc.)

Table 1 - Identification of Hazardous Substances and Hazardous Chemical Products

Integrated Hazardous Substances	NSN	Original OEM	Item Descriptio	Location	Additional Details
		Part Number	n		
Arsenic, Cadmium, Chromium VI, Cobalt, Lead, Radioactive metals					
Halocarbons – refrigerant and air-conditioning systems					Type and weight (kg). Global Warm Potential of Hydrofluorocarbons use for refrigerant applications.
Mercury and its compounds					Form of mercury (e.g. liquid, vapou and weight (mg)
Polychlorinated Biphenyl (PCBs)					Form (liquid or solid), quantity (kg), volume (L) and concentration in pp
Hazardous Chemical Products (SDS Required)	NSN	Original OEM Part Number	Ingredient	Chemic al Abstract Service Number (CAS#)	Controls*
Halocarbons – Fire extinguishing systems					
Halocarbons – In aerosol Products					
Paints and related commodities (CARC and non-CARC)					
Fire-fighting Foams Cleaner and					
Degreasers					
POLs (Petroleum, Oils, Lubricants)					
Adhesives					
Anti-seize Corrosion Inhibitor					
Decontaminant					
Detector Kit Chemical substances					

\*Controls: Identify if the substance is regulated under the *Canadian Environmental Protection Act, 1999*; targeted in Schedule 1, Toxic Substance List under CEPA and/or subject to the reporting requirements under the National Pollutant Release Inventory (NPRI).

Table 2 - Identification of radiation sources and batteries

Categories	NSN	Original OEM	Item	Locatio	Additional Details
		Part Number	Description	n*	
Non-ionizing radiation					Type of electromagnetic
					energy (laser,
					microwave, radio
					frequency) and strength
Ionizing radiation					Type and quantity or
					activity level
Batteries					Туре

<sup>\*</sup> Identify the system/sub-system where these items are located.

6.2.1.8. Annex A – Material Safety Data Sheets (SDS)

6.2.1.8.1. IAW WHMIS 2015, attach SDS for the hazardous chemical products identified in Table 1

- 6.3.1. The EEA must be submitted as a PDF file type.
- 6.3.2. **Soft Copy format submission size below 7MB** The EEA may be submitted via email as follows:
  - 6.3.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.3.2.2. Subject Field: ICAMMS-SE-104 EEA [Rev #] [Date of Issue]
- 6.3.3. **Soft Copy format submission size at or above 7MB** The EEA must be submitted on CD or DVD media and be labelled as follows:
  - 6.3.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.3.3.2. EEA;
  - 6.3.3.3. ICAMMS-SE-104;
  - 6.3.3.4. The Revision number, and
  - 6.3.3.5. The date of issue.

## A3.10 DID - UID Marking Specifications

DATA ITEM DESCRIPTION		
1. TITLE 2. IDENTIFICATION NUMBER		
UID Marking Specifications DID ICAMMS-ILS-201		
3. DESCRIPTION		
To describe the UII Mark design and specifications for the ICAMMS system that is subject to UID Marking under the contract.		
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE	
CDRL/DID ICAMMS-ILS-202	SOW: Para. 5.4	
CDRL/DID ICAMMS-ILS-203	CDRL: App. A2.2	
A-LM-505-702/JS-001		

## PREPARATION INSTRUCTIONS

## 6.1. CONTENT

- 6.1.1. Provide the following data for each Line Item in the contract which is subject to UID Marking:
  - 6.1.1.1. Describe which type of marking methodology will be used (i.e., Direct or Indirect Part Marking, Data Plate Modification, etc.).
  - 6.1.1.2. Describe the Imprint Method / Type of Label / Nameplate (i.e., Chemical Etch, Dot Peen, Laser, Thermal Transfer, Ink Jet, Photo Etch, etc.).
  - 6.1.1.3. Marking Specifications:
    - 6.1.1.3.1. Identify applicable engineering drawings requiring UID marking.
    - 6.1.1.3.2. Machine Readable Mark Generation Instructions.
      - 6.1.1.3.2.1. Define the UID construct method
      - 6.1.1.3.2.2. Identify format code, ISO/IEC syntax, and Data Qualifiers contained
      - 6.1.1.3.2.3. Identify the Enterprise Identifier (EID) (i.e. Cage, DUNS, or GS1).
      - 6.1.1.3.2.4. Identify the level of serialization (i.e., Part, Lot, Batch, Enterprise, etc.).
      - 6.1.1.3.2.5. If using Construct 1 18S, identify the sequence number generation process.
      - 6.1.1.3.2.6. Determine other data elements (if required) in the data matrix symbol (i.e. 30P and 30T).
    - 6.1.1.3.3. Identify the Human Readable Mark Generation elements to be included on the label.
    - 6.1.1.3.4. For labels/nameplates, identify which type of material will be used for the creation of the Mark (i.e., Aluminum, Polyacrylic, Metal Foil, Polyester, Polyvinyl, Aluminum Foil, Stainless Steel, etc.).
    - 6.1.1.3.5. Describe the overall layout of the Mark including:
      - 6.1.1.3.5.1. Size (Length, Width, Thickness, etc.).
      - 6.1.1.3.5.2. Shape (Circle, Square, Rectangle, Rounded Corners, etc.).
      - 6.1.1.3.5.3. Layout/Order (Location of Human and Machine Readable elements).
      - 6.1.1.3.5.4. Marking Location on Asset
      - 6.1.1.3.5.5. Type of Lettering (Font, Font Size, Color, etc.).

6.1.1.3.5.6. Attachment Method (Adhesive, Screws, Rivets, Tags, Bag and Tag, Tags and Bands, etc.). For Tag, and Bag/Band and Tag items, provide evidence of why part could not be marked and Government concurrence.

- 6.2.1. The UID Marking Specification must be submitted as a PDF file type.
- 6.2.2. **Soft Copy format submission size below 7MB** The UID Marking Specification may be submitted via email as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-ILS-201 UID Marking Specification [Rev #] [Date of Issue]
- 6.2.3. **Soft Copy format submission size at or above 7MB** The UID Marking Specification must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.3.2. UID Marking Specification;
  - 6.2.3.3. ICAMMS-ILS-201;
  - 6.2.3.4. The Revision number, and
  - 6.2.3.5. The date of issue.

## A3.11 DID - UID Data Submission

DATA ITEM DESCRIPTION		
1. TITLE 2. IDENTIFICATION NUMBER		
UID Data Submission DID ICAMMS-ILS-202		
3. DESCRIPTION		
To describe the required data elements associated with UII Marks applied to materiel and their constituent UII data IAW the Statement of Work, and to describe the data format required to facilitate data utilization by DND/CAF.		
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE	
CDRL/DID ICAMMS-ILS-201	SOW: Para. 5.4	
CDRL/DID ICAMMS-ILS-203	CDRL: App. A2.2	
A-LM-505-702/JS-001		

## 6. PREPARATION INSTRUCTIONS

## 6.1. **CONTENT**

- 6.1.1. Definitions
  - 6.1.1.1. Definitions within this DID must be IAW the Unique Identification (UID) Clause within this Statement of Work.
- 6.1.2. Provide the following data for each item to be delivered that is subject to Unique Identification:
  - 6.1.2.1. Description (English)\*
  - 6.1.2.2. Description (French)\*
  - 6.1.2.3. NCAGE of item manufacturer\*
  - 6.1.2.4. Manufacturer current part number\*
  - 6.1.2.5. Manufacturer serial number\*
  - 6.1.2.6. Item Weight β
  - 6.1.2.7. Unit of Weight †
  - 6.1.2.8. Acquisition Value β
  - 6.1.2.9. Acquisition Currency†
  - 6.1.2.10. Country of Manufacture β
  - 6.1.2.11. Year of Manufacture  $\beta$
  - 6.1.2.12. Month of Manufacture †
  - 6.1.2.13. Embedded item (Y/N)\*
  - 6.1.2.14. NCAGE of parent item manufacturer (if an embedded item)†
  - 6.1.2.15. Manufacturer part number (if an embedded item)†
  - 6.1.2.16. Manufacturer serial number (if an embedded item)†
  - 6.1.2.17. Unique item identifier of parent item (if an embedded item)†
  - 6.1.2.18. Unique item identifier of item\*
  - 6.1.2.19. Unique Item Identifier Type\*

- 6.1.2.20. Issuing Agency Code\* 6.1.2.21. Enterprise Identifier of entity assigning UII (if concatenated UII is used)† 6.1.2.22. Item Original Part number (if UII is serialized within the part number)† 6.1.2.23. Item Lot or Batch Number (if UII is serialized within the batch or lot)† 6.1.2.24. Serial number used in UII (if concatenated unique item identifier is used)† 6.1.2.25. CAGE or DUNS of organization submitting the data\* 6.1.2.26. Name of the person or office submitting the data\* 6.1.2.27. E-mail address of the submitter\* 6.1.2.28. Phone number of the submitter\* 6.1.2.29. Contract Number under which the item is to be delivered\*
- 6.1.3. NOTES:
  - 6.1.3.1. (\*) indicates a Mandatory Field
  - 6.1.3.2. (β) indicates an Optional Field
  - 6.1.3.3. (†) indicates a Conditional Field
- 6.1.4. Marking Specifications
  - 6.1.4.1. A E is standard Materiel Identification Data Set for Serialized Equipment and is required for any serialized item (including embedded serialized items)
  - 6.1.4.2. F Weight is optional information
  - 6.1.4.3. G Unit of weight is conditional (required if Weight is not NULL)
  - 6.1.4.4. H Acquisition Value is optional information
  - 6.1.4.5. I Acquisition Currency is conditional (required if Acquisition Value is not NULL)
  - 6.1.4.6. J Country of Manufacture is optional information
  - 6.1.4.7. K Year of Manufacture is optional information
  - 6.1.4.8. L Month of Manufacture is optional information
  - 6.1.4.9. M, N, O NCAGE, Manufacturer Part Number and Manufacturer Serial number of superior equipment is conditional (required if item is installed in a superior equipment)
  - 6.1.4.10. P Concatenated UII required for ALL items subject to UID
  - 6.1.4.11. Q UII Type required to describe UID type (UID1, UID2, VIN, ESN, GIAI, GRAI, UDI)
  - 6.1.4.12. R Parent UII is conditional (required for all embedded items)
  - 6.1.4.13. S Parent UII must be submitted prior to, or along with, child UII. Child UIIs referencing a parent UII that is not registered will be rejected.
  - 6.1.4.14. T Issuing Agency code is conditional (required for all concatenated UIIs)
  - 6.1.4.15. U Enterprise Identifier responsible for ensuring uniqueness of UII is conditional (required for all concatenated UIIs)
  - 6.1.4.16. V Original part number is conditional for UII Data (required for UID2 construct when UIIs are serialized within the Part Number)
  - 6.1.4.17. W Lot / Batch number is conditional for UII Data (required for UID2 construct when UIIs are serialized within the Lot / Batch)

- 6.1.4.18. X Serial Number in UII Data set is conditional (required for concatenated UIIs); if UID2 construct is used, UII serial must match OEM serial number (column F)
- 6.1.4.19. Y AC is required to provide contact information of the entity submitting the data and the contract under which referenced equipment is to be delivered
- 6.1.4.20. C, U, Y Discrete Enterprise Identifiers are required for:
- 6.1.4.21. C The Enterprise ID of the original equipment manufacturer;
- 6.1.4.22. U The entity that assigned the UII (if concatenated UII is used);
- 6.1.4.23. Y The Enterprise ID of the entity that submitted the data to DND;
- 6.1.4.24. These Identifiers many be different or the same depending on which entity manufactured the equipment, which entity assigned the UII, which entity submitted the data to DND.

## 6.2. SOFT COPY FORMAT

- 6.2.1. The data must be delivered in a ".CSV" or ".XLS: format"
- 6.2.2. The data must be presented IAW the following UID Data Submission template:



## MIDS UID Ter

- 6.2.3. **Soft Copy format submission size below 7MB** The UID Data Submission may be submitted via email as follows:
  - 6.2.3.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.3.2. Subject Field: ICAMMS-ILS-202 UID Data Submission [Rev #] [Date of Issue]
- 6.2.4. **Soft Copy format submission size at or above 7MB** The UID Data Submission must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.4.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.4.2. UID Data Submission;
  - 6.2.4.3. ICAMMS-ILS-202;
  - 6.2.4.4. The Revision number, and
  - 6.2.4.5. The date of issue.

## A3.12 DID - UID Verification and Validation Report

DATA ITEM DESCRIPTION		
1. TITLE	2. IDENTIFICATION NUMBER	
UID Verification and Validation Report	DID ICAMMS-ILS-203	

## 3. DESCRIPTION

The Unique Identification (UID) Verification and Validation Report is a tabular list providing UID marking activity, validation and verification data such as: physical asset marking, registration, inventory audits, quality audits, and verification/validation results.

This Data Item Description (DID) contains format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.

4. RELATED DOCUMENTS

CDRL/DID ICAMMS-ILS-201

CDRL/DID ICAMMS-ILS-202

A-LM-505-702/JS-001

5. CONTRACT REFERENCE

SOW: Para. 5.4 CDRL: App. A2.2

## 6. PREPARATION INSTRUCTIONS

## 6.1. **CONTENT**

- 6.1.1. Definitions must be as in A-LM-505-702/JS-001, latest version at the time of the solicitation. Other documents referenced in A-LM-505-702/JS-001 must also be applied in the context of UID Validation and Verification.
- 6.1.2. The Contractor's report format is acceptable.
- 6.1.3. Each UII mark must be validated for data contents IAW A-LM-505-702/JS-001.
- 6.1.4. Verification for mark quality of the first article for each item type is required. A sampling plan based on lot size may be used to verify remaining UII marks within a lot. In order to pass, a mark must meet the minimum quality standards set out in A-LM-505-702/JS-001.
- 6.1.5. Verification and validation results must include at a minimum the data set out in 10.7 below (with exception of Verifications, for which a representative sample may be verified as per 10.4).
- 6.1.6. Marks failing verification or validation must be replaced with compliant marks by the Contractor prior to acceptance of the items.
- 6.1.7. The tabular report must include the following alphanumeric fields:
  - 6.1.7.1. Unique Item Identifier (UII).
  - 6.1.7.2. UII Type (Construct).
  - 6.1.7.3. Enterprise Identifier (EID).
  - 6.1.7.4. EID Type (CAGE/NCAGE, DUNS, etc).
  - 6.1.7.5. Original Equipment Manufacturer (OEM) Part Number.
  - 6.1.7.6. Service Assigned Serial Number (if assigned).
  - 6.1.7.7. Original Equipment Manufacturer (OEM) serial number.
  - 6.1.7.8. Equipment Nomenclature (name and type).
  - 6.1.7.9. National Stock Number (NSN).
  - 6.1.7.10. Validation Date.

- 6.1.7.11. Validation Result (Pass/Fail).
- 6.1.7.12. Verification Date.
- 6.1.7.13. Verification Result (Pass/Fail).
- 6.1.7.14. Other Event/Activity Date\* (optional).
- 6.1.7.15. Other Event/Activity\* (optional).
- 6.1.7.16. For items marked that "Fail" IUID validation or verification, identify corrective action (whether the item has been re-marked or scrapped).
- 6.1.7.17. \*Other Event/Activity will be defined in the Contract Data Requirements Lists (CDRLs) if required.
- 6.1.8. The Key attributes for the report are the validation and verification columns which each indicate (Pass/Fail). (NOTE: Most verification apparatus provide electronic records with pass/fail summaries for both verification and validation.)
- 6.1.9. A "Pass" validation value must be assigned to records whose data matrix symbol(s) properly encode Item Unique Identification data as prescribed in A-LM-505-702/JS-001 requirements for machine readable information (MRI) marking.
- 6.1.10. A "Pass" verification value must be assigned to records whose data matrix symbol(s) meet or exceed the Symbol Quality standards set out in A-LM-505-702/JS-001 for data matrix symbol quality. These must be accompanied with a detailed Verification report for each mark that was verified.
- 6.1.11. The Contractor must ensure machine-readable UII marks required under this contract are permanently placed on the items subjected to contractually-required performance testing prior to that testing; and further must include all mark serviceability problems in the item's test report(s).

- 6.2.1. The data must be delivered in a ".CSV" or ".XLS" format
- 6.2.2. **Soft Copy format submission size below 7MB** The UID Verification and Validation Report may be submitted via email as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-ILS-203 UID Verification and Validation Report [Rev #] [Date of Issue]
- 6.2.3. **Soft Copy format submission size at or above 7MB** The UID Data Submission must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.3.2. UID Verification and Validation Report;
  - 6.2.3.3. ICAMMS-ILS-203:
  - 6.2.3.4. The Revision number, and
  - 6.2.3.5. The date of issue.

## A3.13 DID - Provisioning Parts Breakdown

DATA ITEM DESCRIPTION		
1. TITLE	2. IDENTIFICATION NUMBER	
Provisioning Parts Breakdown (PPB)	DID ICAMMS-ILS-204	

## 3. DESCRIPTION

Provisioning documentation is needed by DND to identify, catalogue, calculate and procure the range and depth of spare and repair parts needed to support the approved in-service maintenance, and to handle, store and transport these items.

4. RELATED DOCUMENTS

SOW: Para. 5.1

D-01-100-214/SF-000

CDRL: App. A2.2

5. CONTRACT REFERENCE

## 6. PREPARATION INSTRUCTIONS

## 6.1. **CONTENT**

- 6.1.1. For each item considered for provisioning, the provisioning and packaging data identified below must be provided in electronic form suitable for entry into the DND DRMIS system.
- 6.1.2. The Contractor must provide these data in a timely manner, consistent with the need for initial provisioning, long lead time and interim spares data requirements.
- 6.1.3. The data element names are provided for both DND usage, and the formal MIL-STD-1388/2B or GEIA-STD-0007B. Data Element Definition (DED) numbers referenced in the body of this DID are extracted from MIL-STD-1388-2B, Appendix E.

DND Data Element Name	1388 2B name (Where different to Canadian name)	1388 DED#	GEIA- STD- 0007-B	Provisioning List	CBIL
Item Sequence Number	Provisioning List Item Sequence Number (PLISN)	309		Reqd	Reqd
Indenture Code	Indenture Code	162	2520	Reqd	N/A
Item Name		182	2790	Reqd	Reqd
Manufacturer's Reference No. (Note 1)	Reference number	337	4400	Reqd	Reqd
CAGE Code (Note 1)		046	1520	Reqd	Reqd
Contractors Part Number (Note 2)	Additional Reference Number	006	4400	Reqd	Reqd
CAGE Code (Note 2)		046	1520	Reqd	Reqd
NATO Stock Number	National Stock Number and Related data	253	2280	If Assigned	If Assigne d
Quantity per Assembly		316	4190	Reqd	Reqd
Standard Unit Price	Unit of Issue Price	490	3990	Reqd	Reqd
Unit of Issue		488	5700	Reqd	N/A
Unit of Measure		491	5720	N/A	Reqd
Production Lead Time		299		Reqd	N/A
Reference Designation		335	4380	Reqd	N/A
Shelf Life		377	4730	Reqd	Reqd

Usage Rate	Maintenance Replacement Rate I (MRRI)	211		Reqd	N/A
Recommended Buy Qty	Total Qty Recommended for 24 months of Preventive and Corrective Maintenance	453	4310	Reqd	Reqd
Source, Maintenance and Recoverability Code (SMR)		389	4830	Reqd	N/A
Degree of Protection Code		074		Reqd	Reqd
Unit Weight Unpacked	Unit Weight	497	3190	Reqd	N/A
Unit Size Unpacked	Unit Size	496	2890	Reqd	N/A
Unit Pack Cube		493		Reqd	N/A
Material Safety Data Sheet Required		(None)		Reqd	Reqd
Special Material Content Code		395		Reqd	Reqd

**Note 1:** This P/N and CAGE code must be that issued by the Prime Contractor, or Integrator, for the system being provisioned.

- Note 2: This P/N (s) and CAGE code (s) must be those of Original Equipment Manufacturer(s) (OEM's)
  - 6.1.4. To determine Usage Rate the following calculation must be applied:
    - 6.1.4.1. Usage Rate = Task Frequency x Quantity per task
    - 6.1.4.2. Where:
      - 6.1.4.2.1. Task Frequency = (Failure Rate + De-rating Factors) x Conversion Factor x Annual Operating Requirements
      - 6.1.4.2.2. De-rating Factors are:

6.1.4.2.2.1. Induced Failures:	1
	MTBM-IN
6.1.4.2.2.2. No Defect:	1
	MTBM-ND

- 6.1.4.3. The Conversion Factor adjusts the Annual Operating Requirements, taking into account the duty cycle, i.e., proportion of time the provisioned item is working compared to the time that the system is operating.
- 6.1.4.4. For preventive maintenance resulting in items being removed and replaced, extend the calculation to take into account the time between scheduled removals:

	1	
MTDD	MTDD	

- 6.2.1. The data must be delivered in a ".CSV" or ".XLS: format"
- 6.2.2. **Soft Copy format submission size below 7MB** The Provisioning Parts Breakdown may be submitted via email as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-ILS-204 Provisioning Parts Breakdown [Rev #] [Date of Issue]

- 6.2.3. **Soft Copy format submission size at or above 7MB** The UID Data Submission must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.3.2. Provisioning Parts Breakdown;
  - 6.2.3.3. ICAMMS-ILS-204;
  - 6.2.3.4. The Revision number, and
  - 6.2.3.5. The date of issue.

## A3.14 DID – Supplementary Provisioning Technical Documentation

DATA ITEM DESCRIPTION		
1. TITLE 2. IDENTIFICATION NUMBER		
Supplementary Provisioning Technical Documentation (SPTD)	DID ICAMMS-ILS-205	
3. DESCRIPTION		
Supplementary Provisioning Technical Documentation (SPTD) uniquely identify, for cataloguing purposes, each item in each provisioning list that has not already been assigned a NATO Stock Number.		
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE	
CDRL/DID ICAMMS-ILS-204	SOW: Para. 5.1	
D-01-100-214/SF-000	CDRL: App. A2.2	

#### 6. PREPARATION INSTRUCTIONS

#### 6.1. CONTENT

- 6.1.1. The SPTD must include sufficient data to clearly define each item for cataloguing.
- 6.1.2. The SPTD must include
  - 6.1.2.1. Item Name (DED 201 or GEIA 2790);
  - 6.1.2.2. Reference (Manufacturer's Part) No. (DED 337 or GEIA 4400); and
  - 6.1.2.3. CAGE Code (DED 046 or GEIA 1520).
- 6.1.3. The SPTD must include as applicable:
  - 6.1.3.1. Configuration drawing of item; assembly, wiring or schematic drawing; illustrated parts list
  - 6.1.3.2. Technical specification, including relevant standards
  - 6.1.3.3. Physical characteristics, such as dimensions, tolerances, materials, mandatory processes, surface finish, protective coating;
  - 6.1.3.4. Electrical characteristics;
  - 6.1.3.5. Performance data, including the environmental and operating conditions under which the item must perform;
  - 6.1.3.6. Mounting requirements;
  - 6.1.3.7. Special features which contribute to the uniqueness of the item; and
  - 6.1.3.8. Commercial catalogue data
- 6.1.4. The SPTD must be sequenced in the same order as the provisioning list that it supplements.
- 6.1.5. The SPTD must include identification of any limitations on the use or publication of any data provided.

- 6.2.1. The data must be delivered in a ".CSV" or ".XLS: format"
- 6.2.2. **Soft Copy format submission size below 7MB** The Provisioning Parts Breakdown may be submitted via email as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-ILS-205 Supplementary Provisioning Technical Documentation [Rev #] [Date of Issue]

- 6.2.3. **Soft Copy format submission size at or above 7MB** The Supplementary Provisioning Technical Documentation must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.3.2. Supplementary Provisioning Technical Documentation;
  - 6.2.3.3. ICAMMS-ILS-205;
  - 6.2.3.4. The Revision number, and
  - 6.2.3.5. The date of issue.

## A3.15 DID - Technical Manual

DATA ITEM DESCRIPTION		
1. TITLE	2. IDENTIFICATION NUMBER	
Technical Manual	DID ICAMMS-ILS-206	
3. DESCRIPTION		
The Technical Manual must describe the tasks necessary for installation, open ICAMMS system.	eration and maintenance of the	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE	
C-01-100-100/AG-008 - Writer's Guide for Technical Documentation	SOW: Para. 5.2	
D-01-100-204/SF-000 - Specification - Preparation Of Preventive Maintenan Instructions	CE CDRL: App. A2.2	
D-01-100-205/SF-000 - Specification - Preparation Of Corrective Maintenand Instruction	се	
D-01-100-207/SF-002 – Specification – Preparation of Interim Illustrated Par	ts	

## 6. PREPARATION INSTRUCTIONS

Manuals for Land Equipment

#### 6.1. **CONTENT**

- 6.1.1. The Technical Manual must cover, at a minimum, the following information:
  - 6.1.1.1. System overview;
  - 6.1.1.2. System Operation, including:
  - 6.1.1.3. System unpacking;
  - 6.1.1.4. Installation on an ISO container;
  - 6.1.1.5. Towing procedures;
  - 6.1.1.6. Removal from an ISO container
  - 6.1.1.7. Preventive Maintenance tasks and procedures;
  - 6.1.1.8. Corrective Maintenance tasks and procedures;
    - 6.1.1.8.1. Corrective Maintenance instructions must include corrective maintenance tasks which can be completed in one hour or less.
  - 6.1.1.9. Preparation for Storage and Transportation;
  - 6.1.1.10. Illustrated Parts List
- 6.1.2. The manual must be provided in both English and French.
- 6.1.3. Each ICAMMS must have a hard copy of the TA approved Technical Manual.
- 6.1.4. The Technical Manual hard copies must be weather resistant.
- 6.1.5. The Technical Manual Hard copies must be stored in a weather proof holder affixed to the ICAMMS or ICAMMS storage adaptor.

## 6.2. **SOFT COPY FORMAT**

6.2.1. The data must be delivered in .pdf format.

- 6.2.2. **Soft Copy format submission size below 7MB** The Technical Manual may be submitted via email as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-ILS-206 Technical Manual [Rev #] [Date of Issue]
- 6.2.3. **Soft Copy format submission size at or above 7MB** The Technical Manual must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.3.2. Technical Manual;
  - 6.2.3.3. ICAMMS-ILS-206;
  - 6.2.3.4. The Revision number, and
  - 6.2.3.5. The date of issue.

## A3.16 DID - Operator's Quick Reference Card

DATA ITEM DESCRIPTION		
1. TITLE	2. IDENTIFICATION NUMBER	
Operator's Quick Reference Card (OQRC)	DID ICAMMS-ILS-207	
3. DESCRIPTION		
The OQRC provides essential instructions for the safe set-up and operation	on of the equipment.	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE	
C-01-100-100/AG-008 - Writer's Guide for Technical Documentation	SOW: Para. 5.2	
	CDRL: App. A2.2	

## 6. PREPARATION INSTRUCTIONS

## 6.1. **CONTENT**

- 6.1.1. The OQRC must provide operators essential instructions for safe operation of the ICAMMS:
  - 6.1.1.1. Set-up and installation on ISO Containers
  - 6.1.1.2. Towing procedures.
  - 6.1.1.3. Tear down and stowage procedures:
- 6.1.2. The checklist must be bilingual.
- 6.1.3. The French and English text may be on separate pages.
- 6.1.4. The OQRC may be in the Contractor's format.

## 6.2. HARD COPY FORMAT

- 6.2.1. The checklist must be condensed to fit one (1) 8.5"x11" (letter) format page, either single or double sided.
- 6.2.2. The final physical copies of the checklist must be weatherproof.
- 6.2.3. One (1) hard copy must be included with each ICAMMS system.

- 6.3.1. The data must be delivered in .pdf format.
- 6.3.2. Soft Copy format submission size below 7MB The OQRC may be submitted via email as follows:
  - 6.3.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.3.2.2. Subject Field: ICAMMS-ILS-207 OQRC [Rev #] [Date of Issue]
- 6.3.3. **Soft Copy format submission size at or above 7MB** The OQRC must be submitted on CD or DVD media and be labelled as follows:
  - 6.3.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.3.3.2. OQRC;
  - 6.3.3.3. ICAMMS-ILS-207;
  - 6.3.3.4. The Revision number, and
  - 6.3.3.5. The date of issue.

## A3.17 DID - Training Master Lesson Plan

DATA ITEM DESCRIPTION		
1. TITLE	2. IDENTIFICATION NUMBER	
Training Master Lesson Plan DID ICAMMS-ILS-208		
3. DESCRIPTION		
The Training Master Lesson Plan forms the basis of training to be performed during Initial Cadre Training (ICT) and provides instructors with the essential instructions and teaching points to prepare and deliver instruction on the equipment's key characteristics and operation.		
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE	
DID ICAMMS-ILS-209	SOW: Para. 5.3	
	CDRL: App. A2.2	

## 6. PREPARATION INSTRUCTIONS

## 6.1. CONTENT

- 6.1.1. The Contractor must develop a Master Training plan documenting training material requirements and preparation, including:
  - 6.1.1.1. Initial Cadre Training (ICT) training session schedules,
  - 6.1.1.2. Training equipment,
  - 6.1.1.3. Training site requirements, and
  - 6.1.1.4. Training support requirements.
- 6.1.2. The Training Plan must document training materials down to individual learning objectives and teaching points.
- 6.1.3. The Training Plan must encompass:
  - 6.1.3.1. An overview of all ICAMMS components;
  - 6.1.3.2. Set-up procedure;
  - 6.1.3.3. Lifting and lowering procedures;
  - 6.1.3.4. Preparing the ICAMMS for towing;
  - 6.1.3.5. Towing procedures and operation;
  - 6.1.3.6. Tear-down and packing the ICAMMS
  - 6.1.3.7. Troubleshooting procedures, and
  - 6.1.3.8. Operator Maintenance procedures.

- 6.2.1. The data must be delivered in .pdf format.
- 6.2.2. **Soft Copy format submission size below 7MB** The Training Master Lesson Plan may be submitted via email as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-ILS-208 Training Master Lesson Plan [Rev #] [Date of Issue]
- 6.2.3. **Soft Copy format submission size at or above 7MB** The Training Master Lesson Plan must be submitted on CD or DVD media and be labelled as follows:

- 6.2.3.1. ISO Container Administrative Movement and Maintenance System
- 6.2.3.2. Training Master Lesson Plan;
- 6.2.3.3. ICAMMS-ILS-208;
- 6.2.3.4. The Revision number, and
- 6.2.3.5. The date of issue.

CDRL: App. A2.2

## A3.18 DID - Video Training Package

DATA ITEM DESCRIPTION	
1. TITLE	2. IDENTIFICATION NUMBER
Video Training Package	DID ICAMMS-ILS-209
3. DESCRIPTION	
The Video Training Package will provide instructional videos, enabling operators and maintainers to gain or maintain basic knowledge and proficiency in operation of the ICAMMS system. The Video Training Package will supplement ICT training, and enable continuous training support to widely distributed operators and maintainers.	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE
DID-ILS-ICAMMS-208	SOW: Para. 5.3

## 6. PREPARATION INSTRUCTIONS

## 6.1. **CONTENT**

- 6.1.1. Training Videos must be produced to cover each element of the Training Master Lesson Plan.
- 6.1.2. Training videos must align with the structure of the Training Master Lesson Plan.
- 6.1.3. Multiple training plan teaching points can be incorporated into a single video, up to a maximum individual video duration of 15 minutes.
- 6.1.4. Training videos must be in English and French, for all aural and text in the video.
  - 6.1.4.1. English and French Training Videos must be submitted as separate videos.

- 6.2.1. The data must be delivered in .mp4 format.
- 6.2.2. **Soft Copy format submission size below 7MB** The Video Training Package may be submitted via email as follows:
  - 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.
  - 6.2.2.2. Subject Field: ICAMMS-ILS-209 Video Training Package [Rev #] [Date of Issue]
- 6.2.3. **Soft Copy format submission size at or above 7MB** The Video Training Package must be submitted on CD or DVD media and be labelled as follows:
  - 6.2.3.1. ISO Container Administrative Movement and Maintenance System
  - 6.2.3.2. Video Training Package;
  - 6.2.3.3. ICAMMS-ILS-209;
  - 6.2.3.4. The Revision number, and
  - 6.2.3.5. The date of issue.