

16 July 2018

ANNEX A0

DRAFT

STATEMENT OF WORK

LASER TARGET DESIGNATOR (LTD)



NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

LIST OF ACRONYMS AND ABBREVIATIONS

Acronym / Abbreviation	Description
ANSI	American National Standards Institute
BOP	Basis of Payment
CAF	Canadian Armed Forces
CFM	Contractor Furnished Material
CFSD	Canadian Forces Supply Depot
CY	Calendar Year
DDP	Delivery Duty Paid
DMC	Digital Magnetic Compass
DND	Department of National Defence
DRI	Detection, Recognition and Identification
DVO	Day View Optic
FFP	Firm Fixed Price
FFSP	Firm Fixed Session Price
GEMS	General Engineering and Maintenance Services
GFE	Government Furnished Equipment
GFI	Government Furnished Information
GPS	Global Positioning System
GSM	Government Supplied Material
GST	Goods and Services Tax
HST	Harmonized Sales Tax
ILS	Integrated Logistics Support
ISS	In-Service Support
JTAC	Joint Terminal Attack Controller
LTRU	Laser Transmitting/Receiving Unit
LTD	Laser Target Designator
MIL-STD	Military Standard
MOPP	Mission Oriented Protective Posture
NATO	North Atlantic Treaty Organization
NEMA	National Electrical Manufacturers Association
NSN	NATO Stock Number
PA	Procurement Authority
PRF	Pulse Repetition Frequency
PWGSC	Public Works Government Services Canada
QETE	Quality Engineering Test Establishment

R&O	Repair and Overhaul
RSPL	Recommended Spare Parts List
RTML	Recommended Training Materials List
SOW	Statement of Work
SPS	System Performance Specifications
STANAG	Standardization Agreement
UI	User Interface
UII	Unique Item Identifier

1. Title:

- a. Statement of Work – Laser Target Designator (LTD)

2. Background:

- a. This Statement of Work describes the work requirements for the production, delivery and initial support of a modern lightweight Laser Target Designator (LTD) system for use by Canadian Joint Terminal Attack Controllers (JTACs), for the purpose of marking targets for attack by coalition aircraft, as well as terminal guidance of precision laser guided weapons.
- b. The current in-service laser target designators are too heavy and cumbersome to be easily carried on missions. Being of older technology, they are also loud, power-hungry devices, which all highlights the need for a silent, low power-consumption, small form-factor designator capable of high laser energy output, at STANAG 3733 Edition 2-compliant pulse repetition frequencies (PRFs).

3. Instructions:

- a. The following instructions apply to this document:
- 1) Requirements identified by the word “must” are mandatory. Deviations will not be permitted;
 - 2) Requirements identified by the word “should” are desirable and will be rated in accordance with Annex C0 – Technical Evaluation Matrix;
 - 3) Where “must” is not used, the information provided is for guidance only;
 - 4) Where technical certification is required, a copy of the certification or an acceptable proof of compliance must be provided upon request;
 - 5) Metric measurements must be used to define the requirement; and
 - 6) Dimensions stated as nominal must be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

4. Deliverables:

- a. The Contractor must deliver, in the support of the LTD system project, the following:
- 1) Twenty (20) LTD systems in accordance with Annex A1 – System Performance Specifications.
 - 2) An option to purchase an additional three (3) LTD systems in accordance with Annex A1 – System Performance Specifications over a period of two (2) months from the date of contract award.
 - 3) An option to purchase an additional seven (7) LTD systems in accordance with Annex A1 – System Performance Specifications over a period of eighteen (18) months from the date of contract award.

- 4) An option to purchase up to four (4) single year extended warranty coverage periods. The warranty must cover all defects in the LTD system material and workmanship that cause it to fail to conform to the requirements of Annex A1 – System Performance Specifications.
 - a. The Contractor must assess, repair or replace, and ship all equipment returned for warranty repair within 60 days of receipt of the returned equipment, unless otherwise approved by the TA.
 - b. The Contractor must support successful completion of a Laser System Safety Analysis and PRF Code Confirmation of the LTD system with the Quality Engineering Test Establishment (QETE). This process involves DND verification of the Nominal Ocular Hazard Distance and Maximum Permissible Exposure, as well as verification of the PRF code compliance of the system. Support is anticipated to be in the form of technical literature.
5. Project Management:
 - a. The first article LTD system and one additional LTD system must be delivered no later than XX weeks after Contract Award.
 - b. The first article LTD system must be tested for successful compliance to Annex A1 – System Performance Specifications, at the QETE facility located in Gatineau, Quebec, Canada, no later than XX weeks after Contract Award.
 - c. The final delivery of the remaining eighteen (18) LTD systems must be delivered no later than XX weeks after Contract Award.
 - d. The Contractor must prepare and submit to the Technical Authority a quarterly Progress Report, in the Contractor's format, for the duration of the Contract.
6. Integrated Logistics Support (ILS):
 - a. The LTD system and its constituent components, including reusable shipping/storage containers supplied by the Contractor that must be held by Canada to support LTD system operation, training, and maintenance, must be catalogued.
 - b. Where LTD system items have already been catalogued under a North Atlantic Treaty Organization (NATO) Stock Number (NSN), the Contractor must provide information which identifies the items to the satisfaction of Canada allowing for Canadian Armed Forces (CAF) adoption of those existing NSN.
 - c. Where accountable hardware items do not already have Unique Item Identifiers (UII), the Contractor must assign and affix UIIs to these items.
 - d. Where items have not already been catalogued, the Contractor must provide the technical documentation required for their codification and cataloguing. This technical documentation must include a Level 1 drawing package which conforms to the standards of D-01-400-001/SG000, Engineering Drawings Practices.
7. Operation and Technical Publications:

- a. The Contractor must provide technical publications and documentation to enable Canadian Army JTACs and technicians to safely and effectively operate and maintain the LTD system. These publications and documents must be in English, and must be, as a minimum, the following:
 - 1) Detailed system breakdown, including part numbers.
 - 2) Detailed LTD system Operating Instructions;
 - 3) LTD system Operating Limitations (may be included within the aforementioned LTD system Operating Instructions);
 - 4) LTD system Emergency Procedure documentation/checklists (may be included also within the aforementioned LTD system Operating Instructions); and
 - 5) Maintenance Instructions and supporting manuals and documentation required for preventative and corrective maintenance.
 - b. The Contractor must provide a Laser Hazard Assessment in accordance with ANSI Z136.1 that details the LTD system operating characteristics as follows:
 - 1) Nominal Ocular Hazard Distance;
 - 2) Maximum Permissible Exposure; and
 - 3) Related laser hazards and preventative measures for training and operations.
 - c. The Contractor must grant Canada the right to translate all Operation and Technical publications, to be done either internally or through a third party, at Canada's sole discretion.
 - d. The Contractor must deliver all technical publications no later than XX weeks after Contract Award.
8. Operator Training Package:
- a. The Contractor must design an LTD system Operator course to teach all LTD system operator functions and basic fault finding and corrective maintenance. The Contractor must submit to Canada a training package, inclusive of training presentations and Recommended Training Materials List (RTML), for that course. The training packages must be in English. The RTML must include training material, training aids, and any other equipment that would be necessary for the conduct of a LTD system Operator course as appropriate.
 - b. The Contractor must conduct one (1) serial of LTD system Operator training per the LTD system Operator training package for up to twelve (12) Canadian Army JTACs as an initial "Train the Trainer" course. This course must be conducted at a time and location mutually agreeable to Canada and the Contractor, but no later than eight (8) weeks after the delivery of the first LTD system.
 - c. The Contractor must provide professional and material support for no more than two (2) serials of each of the LTD system Operator course as those serials are conducted by Canadian Army personnel at Canadian Forces Base Gagetown, New Brunswick. The

last serial of training will be completed no later than twelve (12) months after the delivery of the last LTD system.