



Ministry  
of Defence



# **MAN-PORTABLE SURVEILLANCE AND TARGET ACQUISITION RADAR (MSTAR) Obsolescence Replacement Programme (ORP)**

## **Statement of Requirement (SOR)**

**Artillery Systems Programme**

**Issue 0.5 dated 11 February 2019**

### **CONDITIONS FOR RELEASE**

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## 1 Objectives

- 1.1 This Statement of Requirement (SOR) sets out the Authority's requirements for an Obsolescence Replacement Programme (ORP) for the UK Mark IV Man-portable Surveillance and Target Acquisition Radar (MSTAR).
- 1.2 The purpose of this document is to express in detail the MSTAR ORP requirements and is presented in the form of Work Packages (WP) that group related requirements together for convenience.

## 2 Scope

- 2.1 The Scope includes all aspects of the MSTAR ORP which aims to:
  - 2.1.1 Provide an obsolescence update of [REDACTED] Mark IV systems which:
    - 2.1.1.1 Removes and manages obsolescence out of the current system for the duration of the Contract and option years.
    - 2.1.1.2 Achieves, as a minimum the same functionality and performance of the current UK MSTAR Mark IV systems.
  - 2.1.2 Provide subsequent support of the updated [REDACTED] (herein referred to as the MSTAR ORP System).
- 2.2 The Requirement will be split into four top-level Work Packages (WP) as follows.
  - 2.2.1 WP1. Design & Demonstrate the MSTAR ORP System.
    - 2.2.1.1 This WP covers the Design, Update, Test and Acceptance of the First of Class MSTAR ORP Systems and shall be completed by the Contractor when the MSTAR ORP First of Class Systems are delivered and meets the Contract Acceptance Process in accordance with Annex M to the Contract. For the Contractor to proceed to WP2 'Deliver the MSTAR ORP System' is dependent upon successful completion of WP1.
  - 2.2.2 WP2. Deliver the MSTAR ORP System
    - 2.2.2.1 This WP covers the Manufacture, Delivery and Acceptance of the remaining MSTAR ORP in accordance with the Fielding Requirement Table at Appendix 1 to the Schedule of Requirements, the Acceptance Process at Annex M and GFA at Annex H to the Contract.
  - 2.2.3 WP3. Support the MSTAR ORP System
    - 2.2.3.1 This WP covers the planning for, and in-service support of, the MSTAR ORP Systems and commences from Contract Award.

### 2.2.4 WP4. Manage the Risk

2.2.4.1 This WP comprises of Management/Reporting of the Project and spans WP1 to WP3 and commences from Contract Award.

2.3 Definitions relating to this document are at Appendix 3 to this Statement of Requirement.

## 3 Requirements

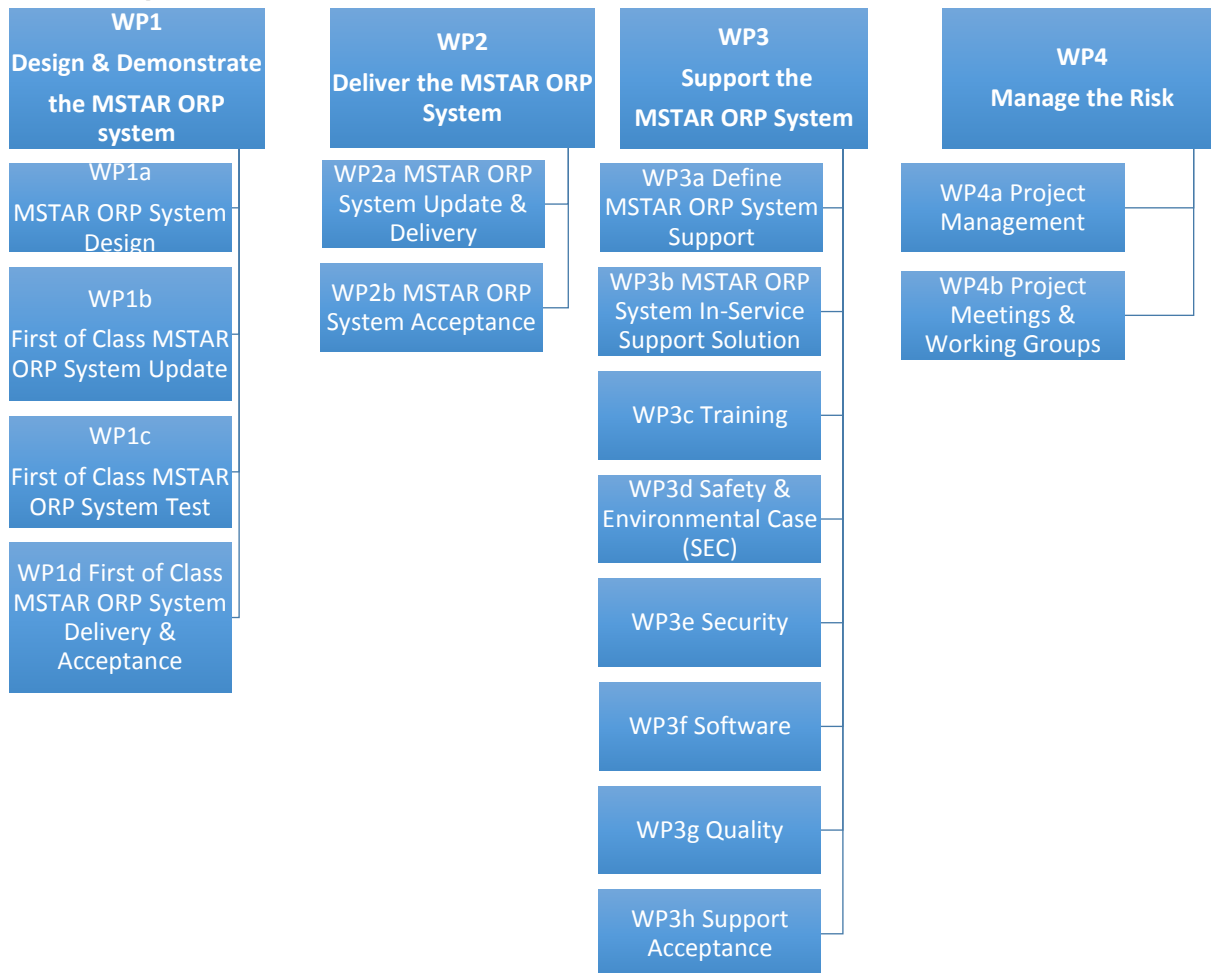


Figure 1 -SOR Requirements Work Package Structure

**3.1 WP1 – Design and Demonstrate the MSTAR ORP System.****3.1.1 WP1a – MSTAR ORP System Design**

3.1.1.1 The Contractor shall deliver a Design Proposal for the MSTAR ORP System that utilises the current UK Mark IV MSTAR and removes all current and known future obsolescence for the duration of the Contract and option years, in accordance with Plan and Report (P&R) 13 at Annex C to the Contract and the delivery schedule at Appendix 1.

3.1.1.2 The Contractor shall deliver a Manufacturing Data Pack, in accordance with Contract Data Requirement (CDR) 004 and the delivery schedule at Appendix 2.

**3.1.2 WP1b – First of Class MSTAR ORP System Update**

3.1.2.1 The Contractor shall update [REDACTED] UK Mark IV MSTAR systems, including software, in accordance with the Cardinal Point Requirement Document (CPRD) at Annex U to the Contract. These systems will be the First of Class MSTAR ORP Systems.

**3.1.3 WP1c – First of Class MSTAR ORP System Test**

3.1.3.1 The Contractor shall deliver their final Contractor's Master Test Plan (CMTP) in accordance with P&R 11 at Annex C to the Contract, the Authority's Acceptance Process at Annex M to the Contract and the delivery schedule at Appendix 1.

3.1.3.2 The Contractor shall test the MSTAR ORP First of Class systems in accordance with the final CMTP and Acceptance Process at Annex M to the Contract.

3.1.3.3 The Contractor shall deliver a final Validation and Verification Requirement Matrix (VVRM) in accordance with P&R 12 and the delivery schedule at Appendix 1.

3.1.3.4 The Contractor shall deliver a Logistic Demonstration Plan in accordance with P&R 14 and the delivery schedule at Appendix 1.

3.1.3.5 The Contractor shall demonstrate that the Reliability and Maintainability requirements in the Contract have been met through a Logistic Demonstration, in accordance with the agreed Logistic Demonstration Plan and Acceptance Process at Annex M to the Contract.

**3.1.4 WP1d – First of Class MSTAR ORP System Delivery & Acceptance**

3.1.4.1 The Contractor shall deliver the [REDACTED] First of Class MSTAR ORP Systems in accordance with the Acceptance Process at Annex M and Schedule of Requirements at Schedule 2 to the Contract.

3.1.4.2 The Contractor shall present to the Authority a claim for acceptance of the First of Class systems using the Certificate of Acceptance at Annex X to the Contract, signed by the Company Director, subject to completion of the relevant activities identified in the Validation and Verification Requirement Matrix (VVRM), in accordance with the Schedule of Requirements and the Acceptance process at Annex M to the Contract.

**3.2 WP2 – Deliver the MSTAR ORP System****3.2.1 WP2a – MSTAR ORP System Update & Delivery**

- 3.2.1.1 The Contractor shall accept delivery of Government Furnished Assets (GFA) from the Authority in accordance with Annex H to the Contract.
- 3.2.1.2 The Contractor shall deliver the Government Furnished Asset Management Plan (GFAMP) in accordance with P&R 09 at Annex C to the Contract.
- 3.2.1.3 The Contractor shall deliver a final Transition Management Plan (TMP) in accordance with P&R 03 at Annex C to the Contract.
- 3.2.1.4 The Contractor shall manage the transition of Integrated Logistic Support (ILS) from MSTAR Mk IV to MSTAR ORP System in accordance with the final TMP.
- 3.2.1.5 The Contractor shall be responsible for the transportation of all MSTAR Mk IV Systems from the [REDACTED] to the Contractor's premises, and for the transportation of all MSTAR ORP Systems from the Contractor's premises to the Authority's warehousing depot.
- 3.2.1.6 The Contractor shall update the remaining 100 MSTAR Mk IV systems to the First of Class MSTAR ORP System final agreed specification in accordance with the Contract and its Annexes including the Acceptance Process at Annex M and Cardinal Point Requirement Document (CPRD) at Annex U.
- 3.2.1.7 The Contractor shall deliver the 100 MSTAR ORP systems in accordance with the Fielding Requirement Table at Appendix 1 to the Schedule of Requirements at schedule 2 to the Contract.

**3.2.2 WP2b – MSTAR ORP System Acceptance**

- 3.2.2.1 The Contractor shall achieve acceptance for [REDACTED] in accordance with the Schedule of Requirements and the Acceptance Process at Annex M to the Contract.
- 3.2.2.2 Initial Operating Capability (IOC), as defined in the Definitions at Appendix 3 to this SOR, shall be achieved when [REDACTED] are delivered by the Contractor, in accordance with the Fielding Requirement Table at Appendix 1 to the Schedule of Requirements and the required training, spares and supply support are in place and have been accepted by the Authority.
- 3.2.2.3 Full Operating Capability (FOC), as defined in the Definitions at Appendix 3 to this SOR, shall be achieved when all [REDACTED] are delivered by the Contractor, in accordance with the Fielding Requirement Table at Appendix 1 to the

schedule of Requirements and the required training, spares and supply support are in place and have been accepted by the Authority.

- 3.2.2.4 The Contractor shall present to the Authority a Certificate of Conformity for each MSTAR ORP System, signed by a Company Director, subject to completion of the relevant acceptance activities identified in the Acceptance Process at Annex M.
- 3.2.2.5 The Authority shall provide confirmation in writing of its agreement that the requirements for acceptance have been met, in accordance with the Acceptance Process at Annex M.

### **3.3 WP3 – Support the MSTAR ORP System**

#### **3.3.1 WP3a - Define MSTAR ORP System Support**

- 3.3.1.1 The Contractor shall deliver a final Integrated Support Plan (ISP), in accordance with P&R 01 at Annex C to the Contract and the delivery schedule at Appendix 1.
- 3.3.1.2 The Contractor shall manage the ILS Programme in accordance with the agreed ISP (P&R 01).
- 3.3.1.3 The Contractor shall deliver a final Support Analysis Plan (SAP) in accordance with P&R 02 at Annex C to the Contract and the delivery schedule at Appendix 1.
- 3.3.1.4 The Contractor shall deliver the following as annexes to the SAP, in accordance with Annex C to the Contract and the delivery schedule at Appendix 1:
  - a) Criticality Analysis Report (CAR) (P&R 02a)
  - b) Level of Repair Analysis (LoRA) Report (P&R 02b), to cover Level 1 activities at location A and Level 4 activities at location D<sup>1</sup>
  - c) Maintenance Task Analysis (MTA) Report (P&R 02c)
  - d) Availability, Reliability and Maintainability (AR&M) Case Report (P&R 02d)
  - e) Support and Test Equipment (S&TE) Report, if required (P&R 02e)

#### **3.3.2 WP3b – MSTAR ORP System In-service Support Solution**

- 3.3.2.1 The Contractor shall provide a Contractor Support Solution from the Authority's declaration of IOC until Contract expiry.
- 3.3.2.2 The Contractor shall deliver a Supply Support Plan (SSP) in accordance with P&R 04 at Annex C to the Contract and the delivery schedule at Appendix 1, that details the Contractor's In-service Support Solution.
- 3.3.2.3 The Contractor shall deliver the following as annexes to the SSP, in accordance with Annex C and Annex D to the Contract and the delivery schedules at Appendices 1 and 2:
  - a) Initial Provisioning List (IPL) (P&R 04a)
  - b) Deployment Spares Pack (DSP) Report (P&R 04b)
  - c) Software Support Plan (P&R 04c)

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<sup>1</sup> Levels and locations of repair are defined at Appendix 3 to this Statement of Requirement.



- d) Packaging, Handling, Storage and Transportation (PHS&T) Report (P&R 04d)
- e) Disposal and Hazardous Items Report (P&R 04e)
- f) Obsolescent Management Plan (P&R 04f)
- g) Technical Documentation Management Plan (Delivery & Maintenance) (P&R 04g)
- h) Data Reporting, Analysis and Corrective Action System (DRACAS) Plan (P&R 04h)
- i) Codification Data Report (CDR 001)

- 3.3.2.4 The Contractor shall deliver In-service Supply Support of MSTAR ORP System in accordance with the agreed SSP and its associated annexes.
- 3.3.2.5 The Contractor shall deliver the required Initial Spares Provisioning and Deployment Spares Pack in accordance with the final IPL (P&R 04a), DSP (P&R 04b), PHS&T Report (P&R 04d), and the Contract Schedule of Requirements, for Logistic Support Declaration (LSD) to be declared by the Authority in accordance with the Acceptance Process at Annex M to the Contract.
- 3.3.2.6 The Contractor shall provide a Repair Enabler Service to repair LRUs for the entire fleet of MSTAR ORP systems, that is fully compatible with the Authority's Joint Support Chain and interfaces with the Authority's logistic information requirements, in accordance with the agreed SSP (P&R 04). Under this service, the Contractor shall provide repairs to all LRUs when requested by the Authority in order to sustain the Authority's equipment holdings and fielding requirements for the duration of the Contract.
- 3.3.2.7 The Contractor shall repair all LRUs, or provide a fit, form, function replacement, within their proposed Repair Turnaround Time, in accordance with the agreed SSP (P&R 04), noting that the maximum acceptable turnaround time is [REDACTED] days. This shall be measured from the point at which the LRU is collected by the Contractor from the Authority's warehousing depot, until the repaired LRU (or a fit, form, function replacement) is receipted back at the Authority's warehousing depot.
- 3.3.2.8 The Contractor shall be responsible for the transportation of all MSTAR ORP LRUs from the [REDACTED] to the Contractor's premises, and for the transportation of all repaired LRUs from the Contractor's premises to the Authority's warehousing depot.
- 3.3.2.9 The Contractor shall manage all known current and future Obsolescence, in accordance with the agreed Obsolescence Management Plan (P&R 04f), for the duration of the Contract.
- 3.3.2.10 The Contractor shall ensure that all new items of supply are codified in accordance with the final Codification Data Report (CDR 001), in collaboration with the United Kingdom National Codification Bureau (UKNCB).
- 3.3.2.11 The Contractor shall deliver Technical Documentation to support MSTAR ORP in accordance with CDR 002 at Annex D to the Contract, the agreed Technical Documentation Management Plan and the delivery schedule at Appendix 2.

### 3.3.3 WP3c – Training

#### 3.3.3.1 Training Analysis:

- 3.3.3.1.1 The Contractor shall deliver a Training Needs Analysis (TNA) Report, in accordance with P&R 06 at Annex C to the Contract and the delivery schedule at Appendix 1, for the daily operation, upkeep and maintenance of the System to be performed by the Level 1 User/Operator.

#### 3.3.3.2 Training Design:

- 3.3.3.2.1 The Contractor shall produce and deliver a Trials Training Pack for the Pre-User Trial Training Course, in accordance with CDR 003 at Annex D to the Contract.
- 3.3.3.2.2 The Contractor shall produce and deliver a Train the Trainer (T3) Course Training Pack that is Defence Systems Approach to Training (DSAT) compliant, in accordance with CDR 003 at Annex D to the Contract and the delivery schedule at Appendix 2.
- 3.3.3.2.3 The Authority shall review and agree the Training Design in accordance with the Acceptance Process at Annex M.

#### 3.3.3.3 Training Delivery:

- 3.3.3.3.1 The Contractor shall deliver the Pre-User Trial Training Course [REDACTED], in accordance with the agreed Trials Training Pack (CDR 003) for [REDACTED] Authority User/Operator Level 1 maintainers to allow the Authority to conduct User Acceptance Trials.
- 3.3.3.3.2 The Contractor shall deliver DSAT compliant T3 Training courses to the Level 5 Trained Instructors in the form of: [REDACTED] T3 Courses [REDACTED], in accordance with the agreed T3 Training Packs (CDR 003).
- 3.3.3.3.3 The Authority shall review the delivered training courses and accept in accordance with the Acceptance Process at Annex M.

### 3.3.4 WP3d – Safety and Environmental Case (SEC)

- 3.3.4.1 The Contractor shall produce and deliver a draft Part 2 SEC in accordance with P&R 08 at Annex C to the Contract and the delivery schedule at Appendix 1.
- 3.3.4.2 The Contractor shall carry out all safety requirements in accordance with DefStan 00-056 and 00-051.
- 3.3.4.3 The Contractor shall nominate Suitably Qualified and Experienced Personnel (SQEP) to fulfil the role of the Safety and Environmental Manager, who has the authority to manage project safety and environmental issues on behalf of the Contractor.
- 3.3.4.4 The Contractor's Safety and Environmental Manager shall be the primary point of contact for safety and environmental issues between the Contractor and the Authority, and will generally be responsible for the following:

- a) Conducting a technical evaluation of hazards associated with the equipment.
- b) Conducting regular Hazard Identification (HAZID) meetings.
- c) Reducing all Risks to a level that is As Low As Reasonably Practicable (ALARP) for the duration of the Contract and informing the Authority immediately should the Contractor deem this risk to no longer remain ALARP, including any proposed resolution action.
- d) Attending Annual Safety and Environmental Working Group and Panel Meetings in Accordance with Annex T to the Contract
- e) Providing access to all records, including through sub-contractors for the purposes of Independent Safety Audits on request.
- f) Maintaining and delivering the Certificate of Design (CoD) for inclusion as evidence to the SEC for fielded software releases only.
- g) Providing SQEP forms for the associated personnel on request by the Authority.

### 3.3.5 WP3e – Security

- 3.3.5.1 The Contractor shall comply with the HMG Security Policy Framework (SPF) unless prevented from doing so by technical issues.
- 3.3.5.2 The Contractor shall report to the Authority all instances where technical issues prevent compliance with the SPF and include with each instance mitigation strategies and plans that demonstrate how the residual risk is reduced to a minimum.
- 3.3.5.3 The Contractor shall work with the Authority and the Authority's nominated Accreditor to deliver a Risk Management and Accreditation Documentation Set (RMADS) for the accreditation of the MSTAR ORP First of Class Systems.
- 3.3.5.4 The Contractor shall make available all information (and any security resource) to the Authority for the completion of RMADS so the capability can be accredited.
- 3.3.5.5 Following delivery and acceptance of the [REDACTED], the Contractor shall ensure all MSTAR ORP systems comply with the UK security classification as defined in the UK Government Security Classifications May 2018 [REDACTED]
- 3.3.5.6 The Contractor shall nominate Suitably Qualified and Experienced Personnel (SQEP) for the management and execution of Security activities throughout the life of the Contract.
- 3.3.5.7 The Contractor shall maintain membership of the National Cyber Security Centre (NCSC), formerly CESG's Certified Cyber Security Consultancy (CCSC) scheme, or National equivalent, for the duration of the Contract, for the purposes of Information Assurance and Security Management.
- 3.3.5.8 The Contractor shall undertake Information Assurance Standard No.1 (IS1) Technical Risk Assessments using IS1; both annually, and when there is a significant change to risk.

**3.3.6 WP3f –Software**

3.3.6.1 The Contractor shall deliver the following Software Deliverable:

**Table 1 – Contract Software Deliverable**

Serial No.	Description	Data Item Description (DID)	Date of submission and updates
SFT-001	MSTAR ORP System Software Delivered and installed including a CD including Executable and Source Code for WP1a and WP2. DEFCON 91 Shall Apply	N/A	First of Class System – CA + 6 Months  All subsequent systems, in accordance with Fielding Plan in the Schedule of Requirements

**3.3.7 WP3g – Quality**

3.3.7.1 The Contractor shall operate an ISO9001:2015 compliant Quality Management System (QMS), with scope appropriate to the Contract deliverables for the duration of the Contract.

3.3.7.2 The Contractor shall hold current valid certification for its QMS for the duration of the Contract issued by a UKAS accredited certification body or equivalent IAF member.

3.3.7.3 The Contractor shall ensure that all work relating to the Contract is performed in accordance with their final QMS.

3.3.7.4 The Contractor shall deliver the requirement in accordance with the quality standards in Schedule 3 to the Terms and Conditions of the Contract.

**3.3.8 WP3h– Support Acceptance**

3.3.8.1 The Contractor shall deliver a Supportability Test, Evaluation and Verification (STEV) Plan in accordance with P&R 07 at Annex C of the Contract and the delivery schedule at Appendix 1.

3.3.8.2 The Contractor shall maintain the STEV Plan in accordance with P&R 07 at Annex C to the Contract and the delivery schedule at Appendix 1.

3.3.8.3 The Contractor shall provide evidence to the Authority, in support of progressive acceptance of ILS deliverables, in accordance with the agreed STEV Plan and Acceptance process at Annex M.

**3.4 WP4 – Manage the Risk****3.4.1 WP4a – Project Management**

3.4.1.1 The Contractor shall produce and maintain a Project Management Plan (PMP) for all required activities over the duration of the Contract. The plan shall be in

accordance with P&R 10 at Annex C to the Contract and the delivery schedule at Appendix 1.

3.4.1.2 The Contractor shall deliver Project Management for MSTAR ORP in accordance with the Contractor's agreed Project Management Plan.

3.4.1.3 The Contractor shall deliver a Quarterly Status Report (QSR), in accordance with P&R 05 at Annex C to the Contract and the delivery schedule at Appendix 1.

3.4.1.4 The Contractor shall deliver the following as annexes to the QSR, in accordance with Annex C to the Contract and the delivery schedule at Appendix 1:

- a) Obsolescence Management Report (P&R 05a)
- b) DRACAS (Trend Analysis) Report (P&R 05b)

#### **3.4.2 WP4b – Project Meetings & Working Groups**

3.4.2.1 The Contractor shall attend Project Meetings and Working Groups as detailed in Annex T to the Contract.

3.4.2.2 The Contractor shall provide secretariat duties for the meetings as per Annex T to the Contract.

3.4.2.3 The Contractor shall provide SQEP personnel to attend and support all MSTAR ORP meetings as per Annex T to the Contract.

3.4.2.4 The Contractor shall produce and maintain accurate minutes including Action Logs in accordance with Annex T to the Contract, to be delivered to the Authority within 10 working days of the meeting completion. The Authority shall review and provide comments on minutes.

**Appendix 1 Plans and Reports Deliverables, including Dates for Submissions and Updates**

Serial No.	Description	Data Item Description (DID)	Date of Submission/Update
P&R 01	Integrated Support Plan (ISP)	DID 01	Final – Contract Award (CA) + 6 months
P&R 02	Support Analysis Plan (SAP), to include as annexes: <ul style="list-style-type: none"> <li>a) Criticality Analysis Report (CAR)</li> <li>b) Level of Repair Analysis (LoRA) Report</li> <li>c) Maintenance Task Analysis (MTA) Report</li> <li>d) Availability, Reliability and Maintainability (AR&amp;M) Case Report</li> <li>e) Support &amp; Test Equipment (S&amp;TE) Report, if required</li> </ul>	DID 02  DID 04  DID 06  DID 05  DID 08  DID 13	Draft annexes – CA + 2 months Final – CA + 8 months
P&R 03	Transition Management Plan (TMP)	DID 03	Final – CA + 6 months
P&R 04	Supply Support Plan (SSP), to include as annexes: <ul style="list-style-type: none"> <li>a) Initial Provisioning List (IPL)</li> <li>b) Deployment Spares Pack (DSP) Report</li> <li>c) Software Support Plan</li> <li>d) Packaging, Handling, Storage and Transportation (PHS&amp;T) Report</li> <li>e) Disposal and Hazardous Items Report</li> </ul>	DID 17  DID 14  DID 18  DID 09  DID 16  DID 23  DID 22	Draft annexes – CA + 2 months Final – CA + 8 months

Serial No.	Description	Data Item Description (DID)	Date of Submission/Update
	f) Obsolescence Management (OM) Plan	DID 12	
	g) Technical Documentation Management Plan (TDMP)	DID 19	
	h) Data Reporting, Analysis and Corrective Action System (DRACAS) Plan		
P&R 05	Quarterly Status Report (QSR), to include as annexes:  a) Obsolescence Management (OM) Report  b) Data Reporting Analysis and Corrective Action System (DRACAS) Report	DID 10  DID 20	Initial report – CA + 3 months  Updated version to be delivered on a quarterly basis with initial report at CA + 3 months, no later than 10 working days prior to QPM.
P&R 06	Training Needs Analysis (TNA) Report	DID 07	Draft – CA + 2 months Final – CA + 6 months
P&R 07	Supportability Test, Evaluation and Verification (STEV) Plan	DID 21	Draft – CA + 2 months Final – CA + 8 months
P&R 08	Safety and Environmental Case (SEC) Part 2 and Associated Hazard Logs	DID 25	Draft – CA + 2 months Final – CA + 8 months  Subject to annual review and update
P&R 09	Government Furnished Asset Management Plan (GFAMP)	DID 24	Final – CA + 3 months
P&R 10	Project Management Plan (PMP)	N/A	Final – CA + 3 months
P&R 11	Contractor's Master Test Plan (CMTP)	N/A	Updates to be delivered IAW the Acceptance Process at Annex M to the Contract.  Final – CA + 2 months, ready for Critical Design Review (CDR)
P&R 12	Validation and Verification Requirement Matrix (VVRM)	N/A	Final – CA + 3 months
P&R 13	MSTAR ORP Design Proposal/Technical Report	N/A	Final – CA + 3 months
P&R 14	Logistic Demonstration Plan	DID 27	Draft – CA + 2 months Final – CA + 6 months

**Appendix 2 Contract Data Requirements (CDRs) including Dates for Submissions and Updates**

<b>Serial No.</b>	<b>Description</b>	<b>Data Item Description (DID)</b>	<b>Date of submission and updates</b>
CDR 001	Codification Data Report	DID 11	Draft to cover long lead items – Contract Award (CA) + 2 months Final – CA + 8 months
CDR 002	Technical Documentation	DID 15	Draft User Manuals for UAT – CA + 2 months Draft Tech Docs – CA + 4 months Final – CA + 8 months
CDR 003	Training Pack	N/A	Trials Training Pack for UAT – CA + 2 months Draft T3 Pack – CA + 4 months Final T3 Pack – CA + 8 months
CDR 004	Manufacturing Data Pack	DID 26	Draft – CA + 2 months Final – CA + 8 Months, on Completion of WP1