**FOR PROVISION OF AN RADIO FREQUENCY EMISSIONS COLLECTION CAPABILITY FOR EXERCISE WESSEX STORM**

**STATEMENT OF REQUIREMENT**

**Purpose**

1. To prepare units and formation HQs for operations against a peer/peer+ adversary, it is essential that CTG has the capability to monitor the electronic emissions from BGs and Bde HQs. Using this capability will enable CTG to understand what an acceptable level of emissions for the CSTTG activities is undertaken by the formations, within validation and observation.

**Background**

1. HF, VHF and UHF radio links, using voice and data, are the primary means of command and control at the tactical level. However, the electronic emissions from these radios can be easily intercepted by an adversary allowing this data to be collected, analysed and formations identified. CTG currently lacks the capability to assess and analyse the emissions of exercising units, which in turn limits the understanding of a units Emission Control (EMCON). Our potential adversaries, including Russia, have invested heavily in Electronic Warfare (EW) which, coupled with their extensive indirect fire capability and less restrictive Rules of Engagement, makes adherence to EMCON and use of Counter-Surveillance Control Measures (CSCM) critical for survivability

**Objectives**

1. The ultimate objective is to provide a system to collect Radio Frequnecies (RF) of various formations in order to analyse and understand the electronic picture.

**Requirement**

1. This proposes a basic capability, contractor delivered, to allow CTG to assess the EMCON of battlegroup (BG) and brigade (Bde) HQs on Ex WESSEX STORM being the CTG-led validation. The intent is to use the evidence collected to present to the formations in the AAR and TAR.
	1. This provides a basic capability for Ex WESSEX STORM, specifically to assess 2 x Brigade HQs in each Execute phase
2. The supplier is required to support the Collective Training Group with up to 2 x sensors and a team to analyse and represent the data produced.

**Scope**

**Work Package 1: Delivery of EMCON 1**

1. The outline requirements will be:
	1. Provision of 2 x sensors able to receive a broad range of HF, VHF and UHF transmissions with the capability to determine which transmissions are relevant and require analysis. This will be able to conduct EMCON analysis on 2 x BGs concurrently. This will be performed each day of Execute 1 and 2 throughout Ex WESSEX STORM.
	2. Perform analysis to determine information including number, length of transmissions, power output, unit size and type.
	3. Provide feedback on the results to an LO in EXCON. This will be in the form of 24-hour cyclical reporting with specific tasking available on request. The data will be shown in graphical format to give visual aid for CTTSG back brief to BG and Bde Commanders. All this data will assist the MIMIR tool used to assess a unit’s performance on Mission Zero and Optimisation.

**Work Package 2: Delivery of EMCON 2**

1. This work The outline requirements will be:
	1. Provision of 2 x sensors able to receive a broad range of HF, VHF and UHF transmissions with the capability to determine which transmissions are relevant and require analysis. This will be able to conduct EMCON analysis on 2 x BGs concurrently. This will be performed each day of Execute 1 and 2 throughout Ex ESSEX STORM.
	2. Perform analysis to determine information including number, length of transmissions, power output, unit size and type.
	3. Provide feedback on the results to an LO in EXCON. This will be in the form of 24-hour cyclical reporting with specific tasking available on request. The data will be shown in graphical format to give visual aid for CTTSG back brief to BG and Bde Commanders. All this data will assist the MIMIR tool used to assess a unit’s performance on Mission Zero and Optimisation.
2. All equipment will be held by the contractor who will supply their own vehicles. This equipment will be operated by contract personnel who will collect then analyse data on radio traffic. They will not be able to see the contents of messages due to the sovereign encryption used in the BOWMAN radio system.

**Timescales**

1. This requirement is to be delivered within Financial Years 20/21

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| --- | --- | --- | --- |
|  | **Deliverable** | **Start Date** | **End Date** |
| **1** | **Delivery and setup of 2 No. sensors able to receive a broad range of HF, VHF and UHF transmissions with the capability to determine which transmissions are relevant and require analysis.** | 15 June 2021 |  |
| **2** | **Work Package 1 - Conduct EMCON analysis on 2 No. Brigades concurrently each day during Exercise WESSEX STORM Execute 1** | 16 June 2021 | 23 June 2021 |
| **3** | **Provide feedback on the results to an LO in EXCON** | Daily |  |

**Security**

1. The Army do not anticipate any discussions being held of a Secret nature. As such, Supplier staff must be at a minimum of ‘Security Cleared (SC)’ security clearance to fulfil this requirement.
2. The supplier will be responsible for conducting security checks on all individuals involved in providing the required services; this includes ensuring the individual has right to work in the U.K.
3. All work under this requirement will be conducted at or below ‘OFFICIAL SENSITIVE’.
4. The Cyber Risk Assessment is assessed at ‘VERY LOW’’.

**Travel & Subsistence**

1. The supplier is responsible for booking all travel and accommodation for their personnel. All claims for Travel & Subsistence shall align to MoD rates in accordance with Condition 47.2 of the SC2 General Conditions. Payments will be made strictly against actual expenditure, evidenced by receipts.

**End of contract**

1. The contract will end upon completion of the Ex WESSEX STORM RF collection and analysis.
2. Should a wider market develop for the training, the Authority shall seek to procure any future requirements via competition. Therefore, this contract should not be seen by the supplier as being exclusive.

**Point(s) of Contact (POC)**

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